

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198792

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T4FT-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6839.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

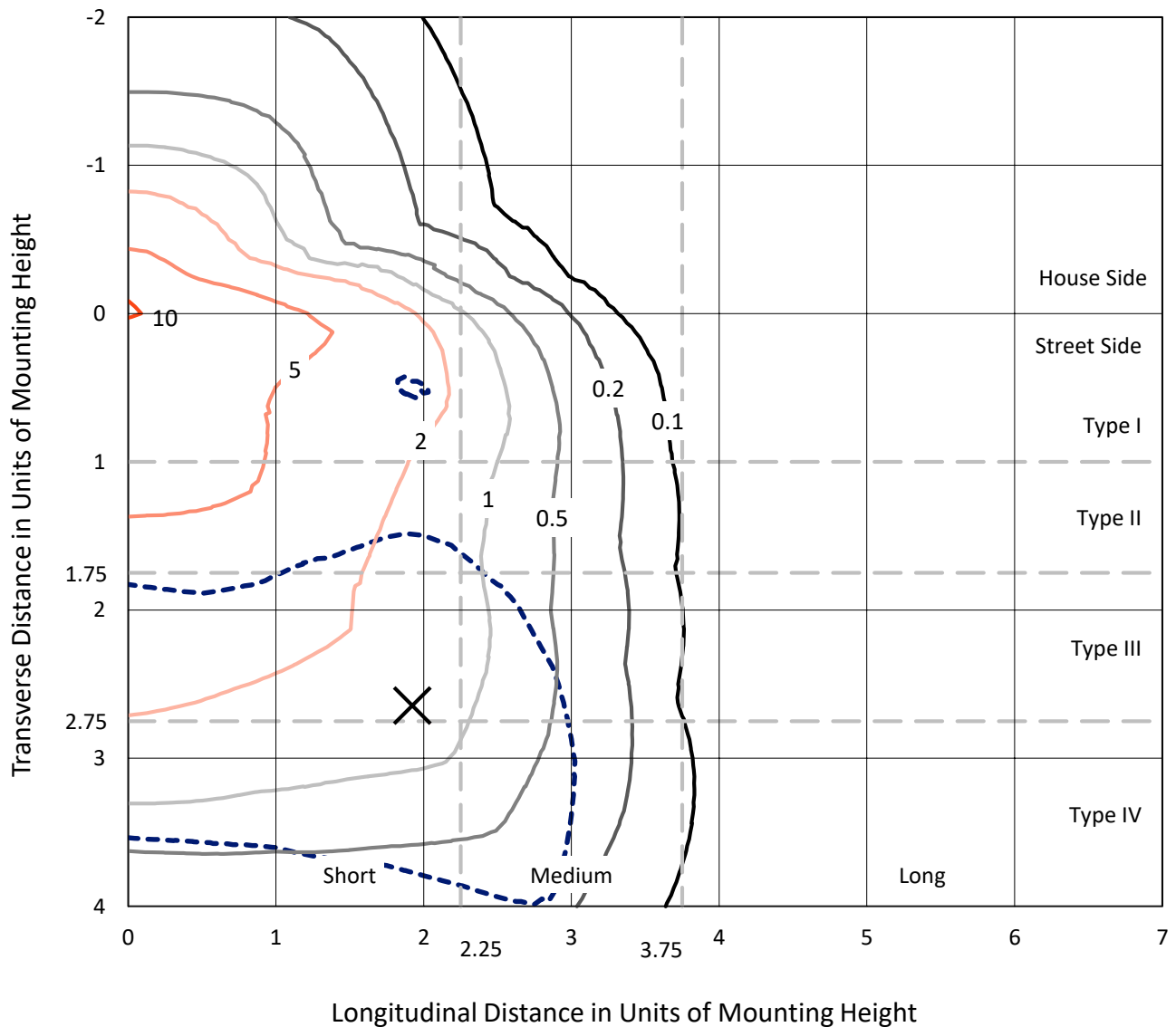
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

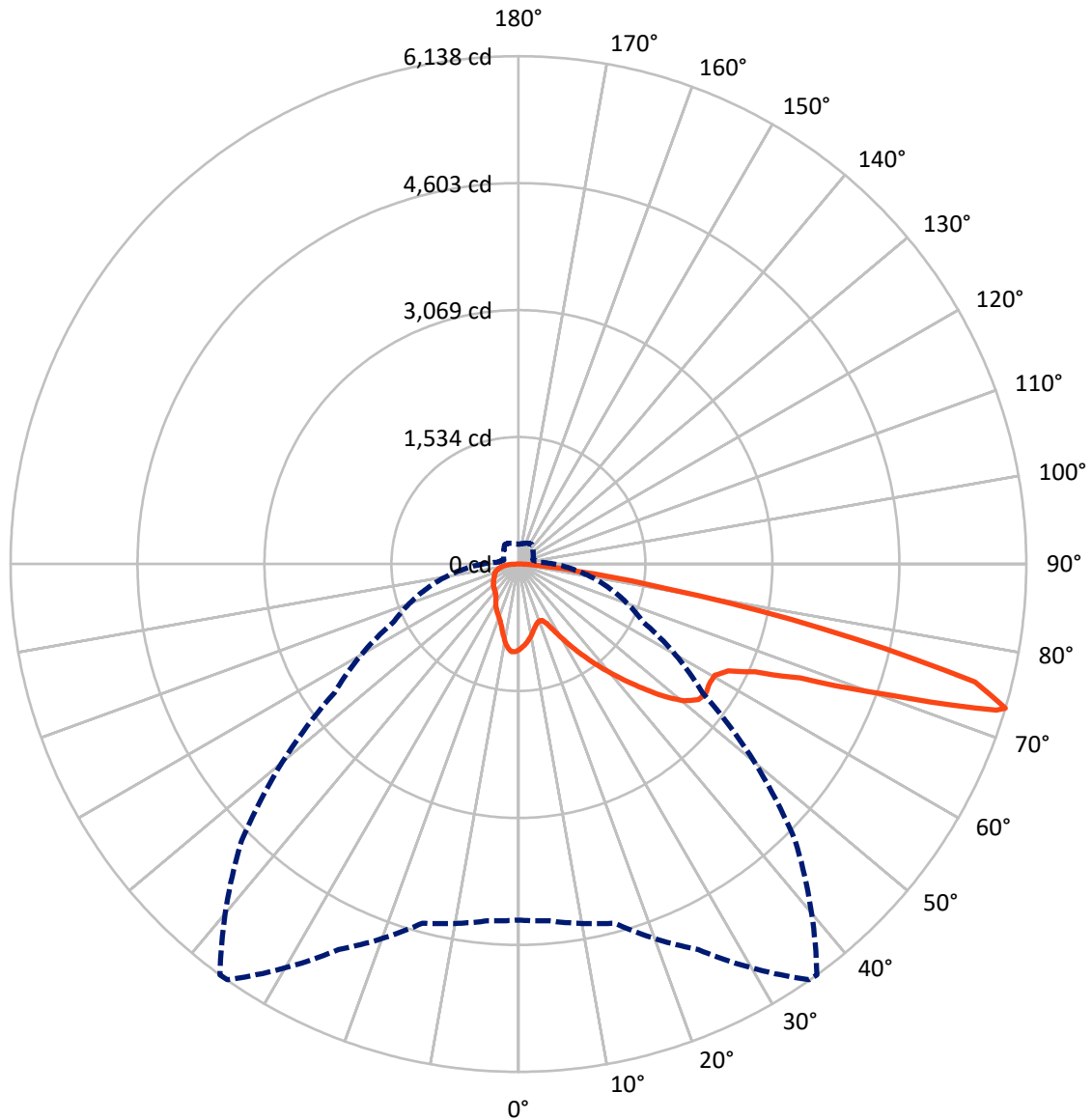
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1318.9	0.0	1318.9
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	5520.6	0.0	5520.6
	% Fixture	80.7	0.0	80.7
Total	Lumens	6839.5	0.0	6839.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	1.4
10°-20°	236.3	3.5
20°-30°	378.9	5.5
30°-40°	626.7	9.2
40°-50°	969.8	14.2
50°-60°	1298.2	19.0
60°-70°	1695.9	24.8
70°-80°	1385.3	20.3
80°-90°	154.2	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6839.5	100.0
0°-180°	6839.5	100.0



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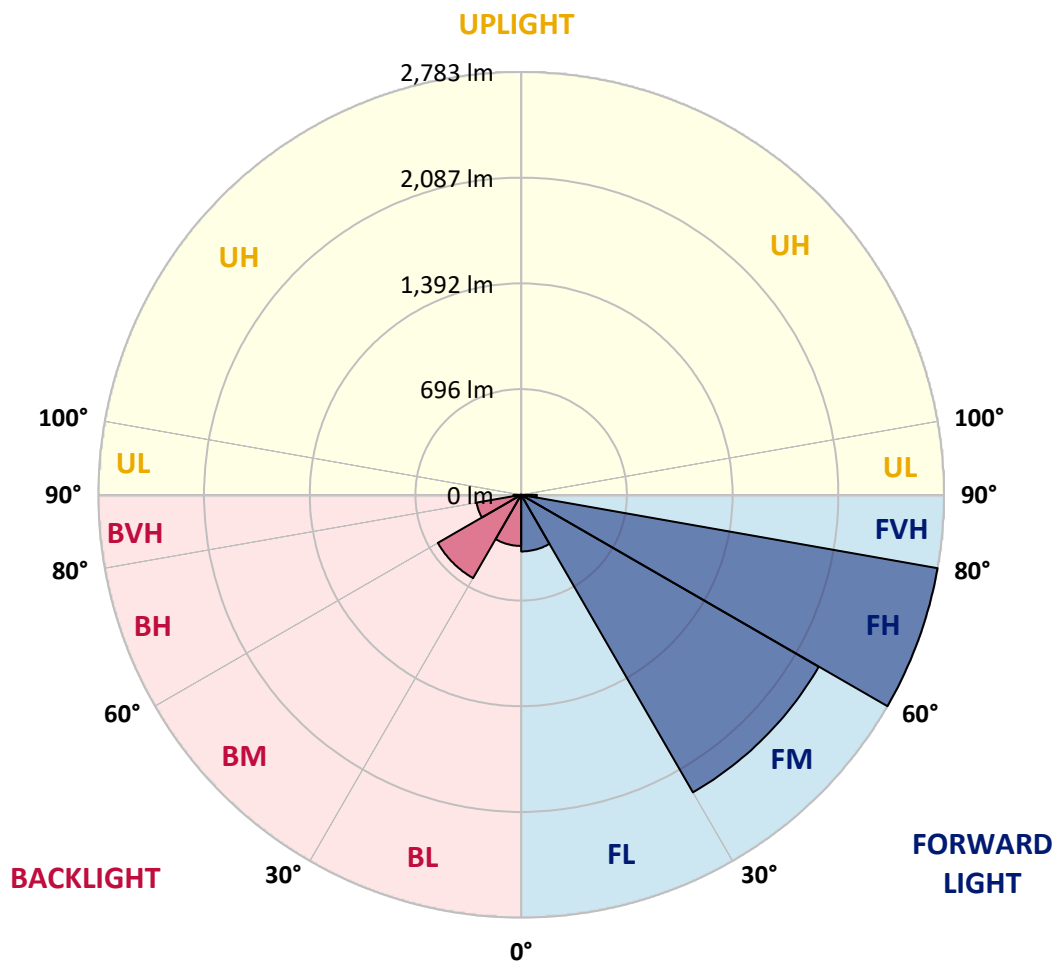
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.7	5.4			
FM (30°-60°)	2261.4	33.1			
FH (60°-80°)	2783.2	40.7			G2/5000
FVH (80°-90°)	103.4	1.5			G2/225
BL (0°-30°)	336.6	4.9	B1/500		
BM (30°-60°)	633.4	9.3	B1/1000		
BH (60°-80°)	298.0	4.4	B1/500		G1/500
BVH (80°-90°)	50.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9
2.5°	996.5	999.0	999.5	1002.5	1002.5	1002.1	1003.4	1008.6	1011.2	1017.3	1022.5
5°	947.4	950.3	951.7	956.9	963.4	963.8	968.6	978.7	988.2	1001.7	1012.9
7.5°	892.1	895.6	899.1	909.9	919.5	920.3	929.6	945.6	958.2	974.7	995.1
10°	838.7	839.5	843.0	856.9	869.5	870.8	883.9	902.1	919.1	942.1	965.2
12.5°	794.8	797.4	796.6	807.0	817.8	818.7	836.1	859.1	883.9	909.9	937.3
15°	779.6	779.2	770.1	769.6	774.4	775.3	792.2	819.2	846.9	879.1	914.3
17.5°	790.0	786.5	762.6	747.9	744.8	745.7	758.3	787.9	817.4	854.4	896.5
20°	847.4	833.9	777.9	742.3	732.2	732.2	739.6	763.5	796.1	839.1	892.1
22.5°	983.4	962.5	843.0	779.6	744.4	740.9	735.3	753.5	789.6	841.3	909.9
25°	1154.6	1144.6	962.5	879.1	806.5	795.2	757.9	764.3	803.0	864.8	958.6
27.5°	1313.3	1295.9	1119.4	1023.8	921.3	903.9	824.8	798.3	835.2	908.2	1029.0
30°	1405.7	1394.1	1280.6	1189.4	1067.2	1045.1	931.7	865.2	892.5	979.9	1128.9
32.5°	1506.6	1499.6	1442.3	1359.3	1225.4	1199.8	1069.9	974.3	980.4	1075.1	1249.3
35°	1604.4	1613.5	1580.9	1520.1	1395.8	1371.9	1255.5	1116.8	1088.5	1182.0	1378.0
37.5°	1721.7	1723.9	1703.4	1663.9	1574.8	1555.3	1459.2	1268.9	1206.4	1295.9	1502.3
40°	1955.9	1921.6	1841.6	1810.3	1757.3	1745.2	1635.7	1408.4	1315.8	1412.7	1619.5
42.5°	2209.3	2155.9	2030.7	1979.4	1958.1	1946.8	1782.5	1501.4	1418.4	1529.6	1734.7
45°	2413.6	2370.1	2247.5	2184.1	2186.7	2168.5	1910.8	1584.3	1529.6	1647.0	1863.4
47.5°	2614.8	2542.1	2404.9	2395.6	2426.1	2399.1	2033.3	1667.4	1645.6	1774.7	1992.0
50°	2627.8	2561.7	2506.0	2579.1	2631.2	2597.8	2144.5	1776.0	1766.0	1929.4	2158.0
52.5°	2469.1	2459.6	2544.3	2667.3	2753.8	2723.8	2235.4	1887.8	1889.0	2122.8	2360.0
55°	2411.3	2399.1	2500.9	2652.1	2769.0	2751.1	2303.2	2013.7	2025.4	2357.5	2576.9
57.5°	2508.7	2478.3	2498.3	2623.4	2733.3	2722.9	2373.6	2153.6	2174.9	2627.8	2777.2
60°	2810.7	2748.6	2642.5	2666.0	2734.7	2728.5	2474.3	2309.6	2345.3	2909.4	2904.2
62.5°	3263.1	3192.6	2976.7	2872.4	2857.2	2845.4	2640.7	2501.3	2519.1	3112.7	2830.3
65°	3759.3	3683.7	3426.9	3256.2	3166.6	3141.4	2909.4	2732.5	2620.8	3112.3	2542.5
67.5°	4316.4	4236.4	3980.5	3817.6	3720.7	3677.6	3345.2	2919.3	2587.8	2848.9	2034.5
70°	4887.0	4810.9	4693.6	4750.6	4793.1	4727.6	4031.8	2981.5	2350.5	2233.6	1366.3
72.5°	4584.1	4578.0	4667.1	5206.8	6027.7	6040.7	4717.5	2806.0	1816.0	1327.6	728.3
73°	4302.9	4328.6	4493.7	5139.5	6133.3	6137.6	4730.9	2715.1	1667.4	1143.8	639.7
75°	2229.2	2403.1	3015.8	4167.4	5679.2	5699.6	4170.5	2055.4	993.8	635.4	431.1
77.5°	597.1	589.2	971.7	2030.3	3786.2	3759.3	2635.1	995.1	476.3	398.4	302.5
80°	204.7	207.2	330.7	742.7	1767.4	1830.4	1143.8	434.1	313.3	277.7	214.2
82.5°	104.3	107.8	173.0	315.9	739.2	723.5	368.1	255.5	209.9	168.6	119.9
85°	55.6	57.4	95.1	163.9	271.2	274.3	129.5	136.5	133.4	95.6	59.1
87.5°	27.4	28.2	45.6	72.1	100.4	96.9	45.2	59.1	65.6	53.9	32.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9
2.5°	1029.0	1029.0	1034.7	1044.2	1051.2	1057.7	1062.0	1069.0	1072.9	1072.5	1072.1
5°	1022.0	1026.4	1037.7	1049.4	1057.2	1062.4	1062.4	1065.5	1065.5	1064.2	1062.4
7.5°	1006.0	1013.3	1029.9	1040.3	1042.5	1036.9	1025.5	1016.8	1006.0	1000.3	998.2
10°	980.4	989.9	1010.8	1015.6	1004.2	984.3	956.9	933.4	912.6	903.0	900.0
12.5°	955.1	967.7	987.4	979.9	953.0	913.9	871.8	839.5	816.1	807.0	803.9
15°	934.3	949.5	964.7	941.7	894.8	840.5	793.9	763.9	746.1	739.2	737.4
17.5°	920.3	938.3	943.5	900.4	835.2	774.4	733.0	713.5	705.7	702.7	701.8
20°	921.3	941.2	928.6	860.4	777.9	716.6	689.2	683.5	683.5	683.5	683.1
22.5°	945.2	962.5	922.6	823.1	722.7	667.9	656.2	660.9	664.4	664.4	664.0
25°	994.7	1004.2	926.9	787.0	671.0	625.7	626.1	635.4	638.3	638.3	637.5
27.5°	1070.3	1062.4	934.8	747.0	620.1	587.5	593.6	601.9	604.1	602.7	602.3
30°	1165.0	1133.7	941.2	700.1	572.3	551.9	557.1	561.9	560.2	557.1	556.7
32.5°	1271.1	1206.4	937.3	647.5	530.2	515.0	518.0	520.6	518.0	510.6	510.6
35°	1376.3	1271.9	916.1	590.1	496.7	479.4	478.8	487.1	486.7	478.0	478.4
37.5°	1468.3	1323.7	874.7	537.6	468.0	453.3	455.0	460.2	462.8	451.0	449.8
40°	1548.7	1359.3	816.5	492.8	445.0	445.8	441.1	432.8	429.7	424.5	423.7
42.5°	1624.3	1384.1	754.8	455.4	433.2	443.2	427.2	407.6	399.4	404.2	407.1
45°	1698.7	1411.9	695.3	424.5	418.5	435.5	413.3	391.5	382.0	384.1	387.2
47.5°	1789.4	1450.5	623.6	391.5	395.9	421.0	404.6	381.2	366.7	358.0	355.5
50°	1909.0	1506.6	530.6	355.9	371.9	405.4	397.2	365.9	350.3	332.9	328.6
52.5°	2058.5	1559.6	436.7	327.2	352.4	392.0	385.0	352.8	333.8	312.9	309.4
55°	2207.5	1567.0	355.9	302.5	330.3	373.7	370.2	342.4	315.5	298.5	295.0
57.5°	2311.9	1497.1	301.6	281.6	308.9	351.1	356.8	329.8	300.2	287.2	285.1
60°	2313.6	1329.7	268.5	267.7	292.9	331.5	342.9	315.1	290.7	282.0	280.3
62.5°	2129.8	1071.6	247.2	257.3	281.1	315.5	332.5	306.8	288.6	285.1	283.4
65°	1785.2	791.8	230.3	247.7	270.3	302.0	323.8	304.2	287.7	286.3	285.1
67.5°	1318.0	542.8	215.9	235.5	258.1	288.1	315.5	300.2	282.4	287.7	285.9
70°	829.1	362.4	202.5	221.7	242.0	272.0	304.6	293.3	276.0	272.9	267.3
72.5°	468.0	262.1	186.4	203.8	221.2	250.7	289.8	281.6	261.2	249.0	243.4
73°	422.8	248.2	182.5	199.5	216.5	246.4	286.3	278.1	256.9	243.4	238.1
75°	309.4	203.0	164.7	181.7	196.4	226.4	269.9	260.8	237.7	221.7	218.2
77.5°	224.2	156.4	141.7	156.9	169.9	198.6	245.1	234.7	212.1	203.4	199.9
80°	161.6	118.7	117.3	132.1	143.4	172.5	218.6	207.8	186.0	211.6	206.0
82.5°	96.5	76.0	86.0	102.6	114.3	144.7	189.9	177.3	156.4	158.1	134.7
85°	46.0	43.1	53.5	67.3	75.6	99.1	158.1	148.2	125.1	102.6	100.4
87.5°	20.5	19.5	25.7	30.0	40.4	59.5	108.2	96.1	90.8	54.3	42.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)