

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: P198952

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198952
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-7050-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 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: 6686 lumens
Efficiency: N/A
Efficacy: 101.3 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

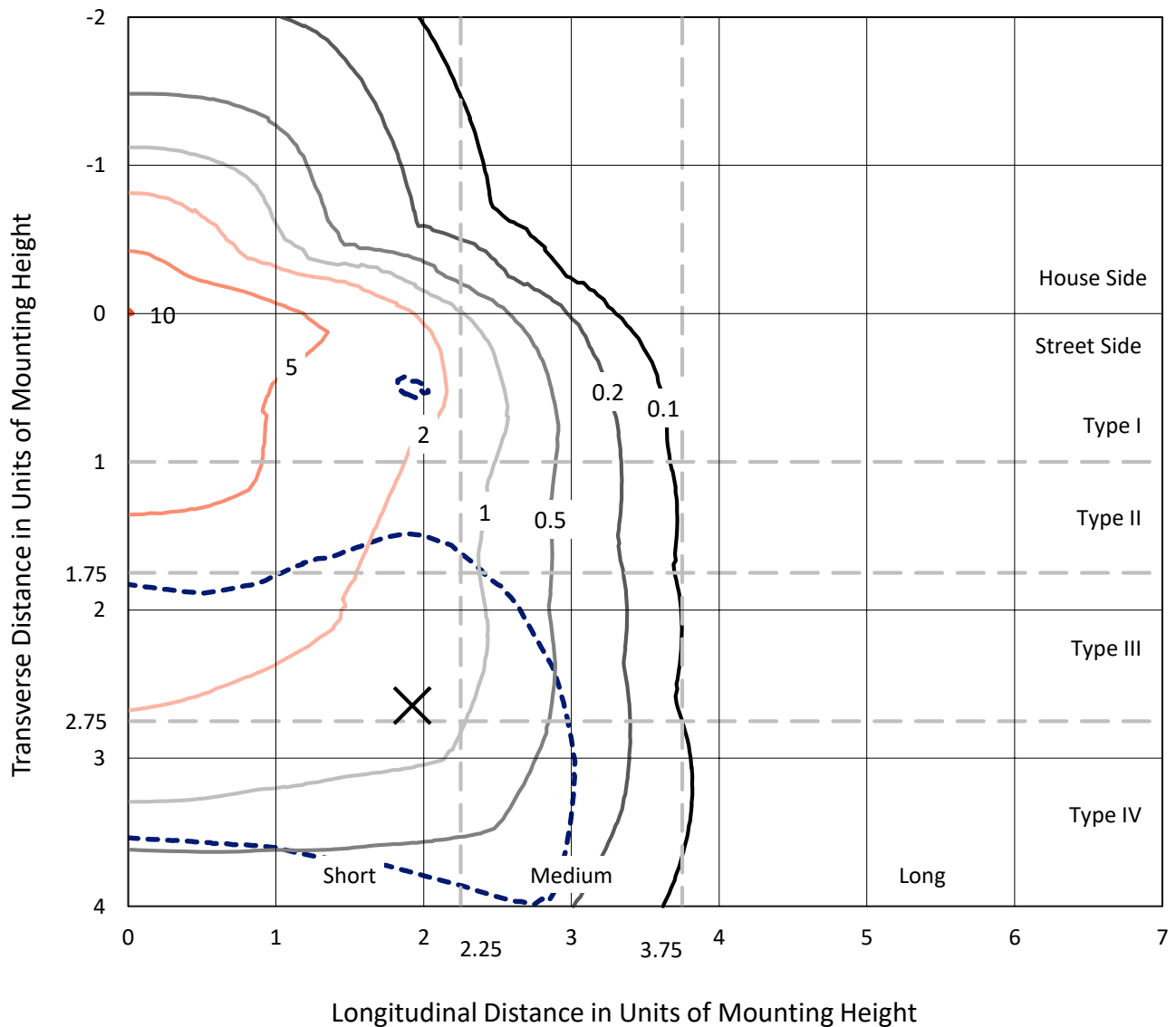
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

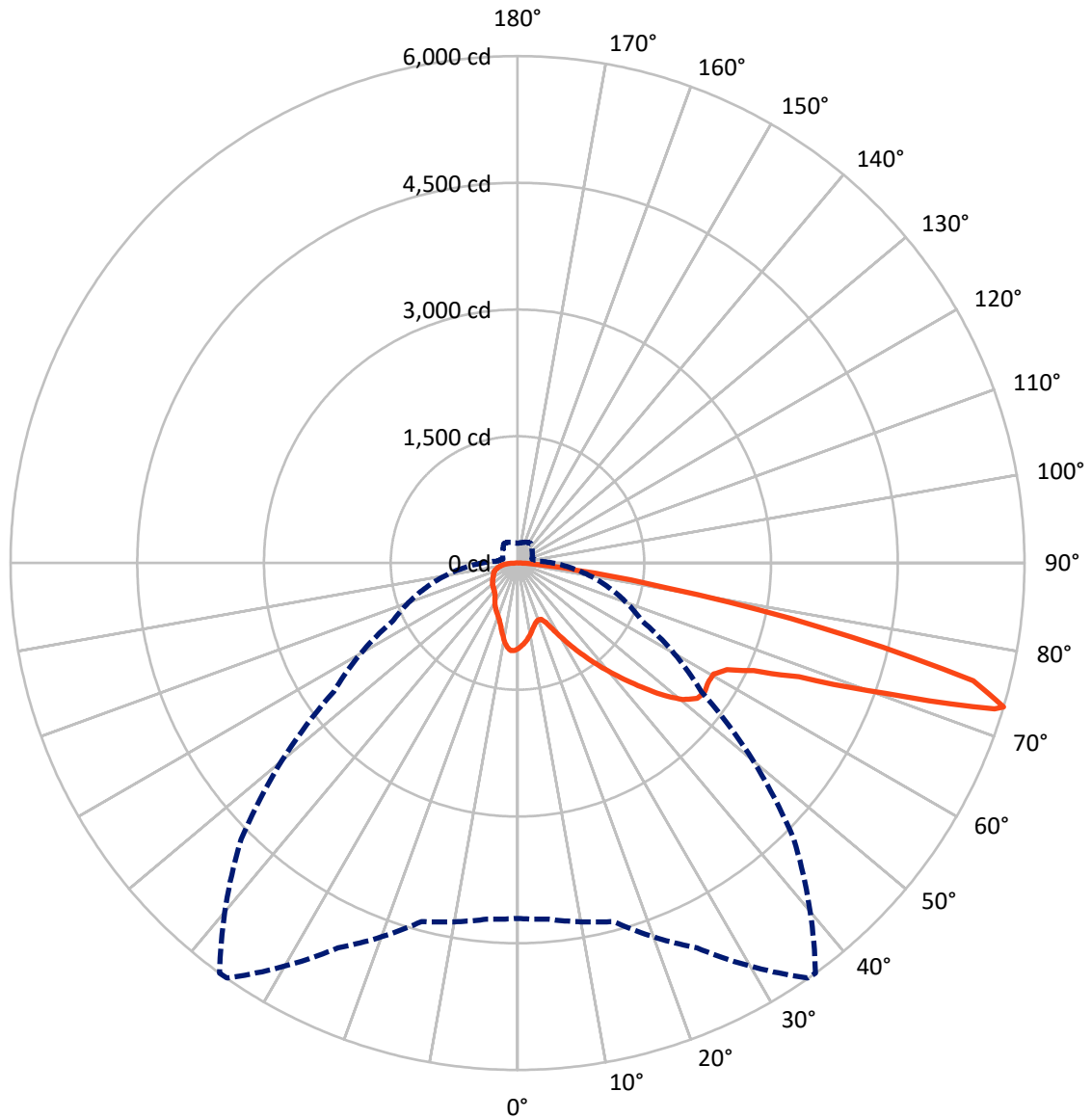


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Non-Cutoff

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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	1289.3	0.0	1289.3
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	5396.7	0.0	5396.7
	% Fixture	80.7	0.0	80.7
Total	Lumens	6686.0	0.0	6686.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.4
10°-20°	231.0	3.5
20°-30°	370.4	5.5
30°-40°	612.7	9.2
40°-50°	948.0	14.2
50°-60°	1269.1	19.0
60°-70°	1657.9	24.8
70°-80°	1354.2	20.3
80°-90°	150.7	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°	6686.0	100.0
0°-180°	6686.0	100.0



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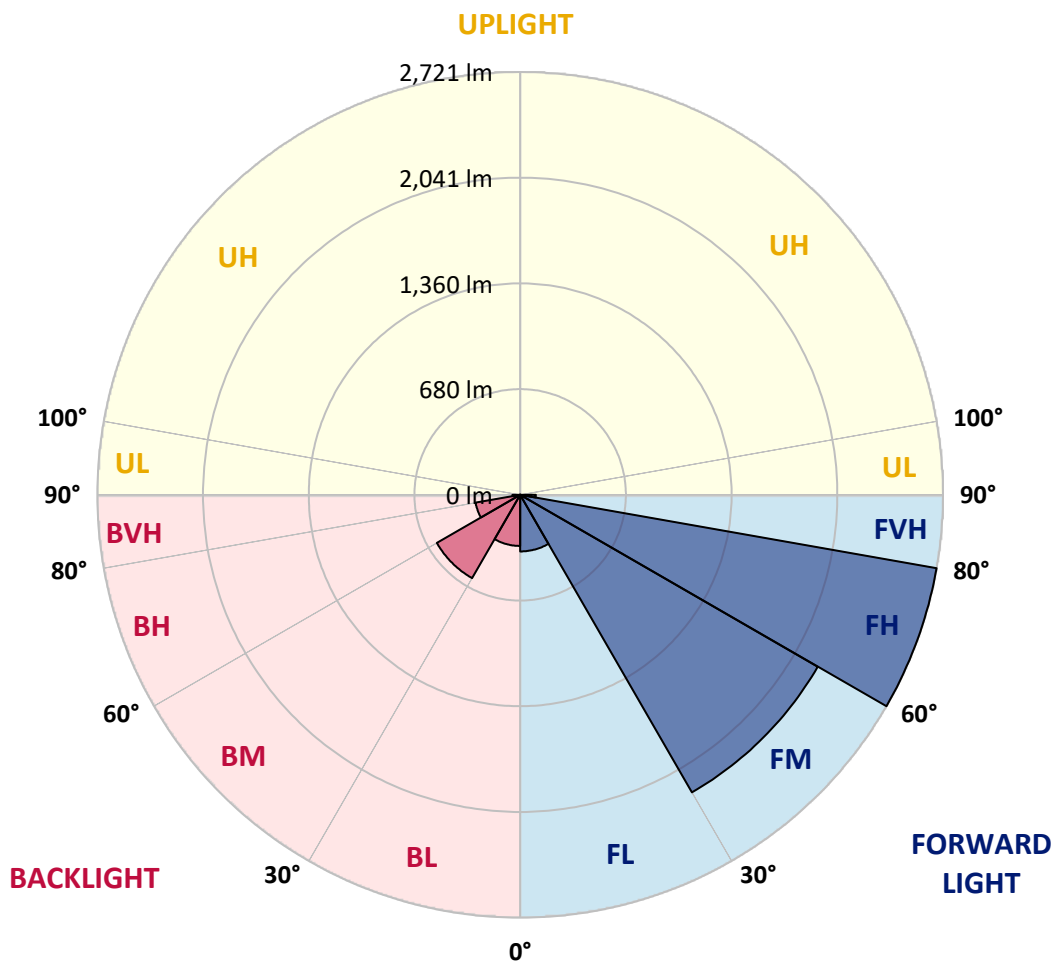
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	364.3	5.4			
FM (30°-60°)	2210.6	33.1			
FH (60°-80°)	2720.7	40.7			G2/5000
FVH (80°-90°)	101.1	1.5			G2/225
BL (0°-30°)	329.1	4.9	B1/500		
BM (30°-60°)	619.2	9.3	B1/1000		
BH (60°-80°)	291.3	4.4	B1/500		G1/500
BVH (80°-90°)	49.6	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°	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
2.5°	974.1	976.6	977.1	980.0	980.0	979.6	980.9	986.0	988.5	994.5	999.6
5°	926.1	929.0	930.3	935.4	941.8	942.2	946.9	956.7	966.0	979.2	990.2
7.5°	872.1	875.5	878.9	889.5	898.9	899.7	908.7	924.4	936.7	952.8	972.8
10°	819.9	820.7	824.1	837.7	850.0	851.3	864.1	881.9	898.5	921.0	943.5
12.5°	777.0	779.5	778.7	788.9	799.5	800.3	817.3	839.8	864.1	889.5	916.3
15°	762.1	761.7	752.8	752.3	757.0	757.9	774.4	800.8	827.9	859.4	893.8
17.5°	772.3	768.9	745.5	731.1	728.1	729.0	741.3	770.2	799.1	835.2	876.4
20°	828.4	815.2	760.4	725.6	715.8	715.8	723.0	746.4	778.2	820.3	872.1
22.5°	961.3	940.9	824.1	762.1	727.7	724.3	718.8	736.6	771.9	822.4	889.5
25°	1128.7	1118.9	940.9	859.4	788.4	777.4	740.9	747.2	785.0	845.4	937.1
27.5°	1283.8	1266.8	1094.3	1000.8	900.6	883.6	806.3	780.4	816.5	887.8	1005.9
30°	1374.2	1362.8	1251.9	1162.7	1043.3	1021.7	910.8	845.8	872.5	957.9	1103.6
32.5°	1472.8	1466.0	1409.9	1328.8	1197.9	1172.9	1045.9	952.4	958.4	1051.0	1221.3
35°	1568.4	1577.3	1545.4	1486.0	1364.5	1341.1	1227.3	1091.7	1064.1	1155.5	1347.1
37.5°	1683.1	1685.2	1665.2	1626.6	1539.5	1520.4	1426.5	1240.4	1179.3	1266.8	1468.6
40°	1912.0	1878.5	1800.3	1769.7	1717.9	1706.0	1599.0	1376.8	1286.3	1381.0	1583.2
42.5°	2159.7	2107.5	1985.1	1935.0	1914.2	1903.1	1742.5	1467.7	1386.6	1495.3	1695.8
45°	2359.4	2316.9	2197.1	2135.1	2137.6	2119.8	1867.9	1548.8	1495.3	1610.0	1821.6
47.5°	2556.1	2485.1	2350.9	2341.9	2371.7	2345.3	1987.7	1630.0	1608.7	1734.9	1947.3
50°	2568.8	2504.2	2449.8	2521.2	2572.2	2539.5	2096.4	1736.2	1726.4	1886.1	2109.6
52.5°	2413.7	2404.4	2487.2	2607.5	2692.0	2662.7	2185.2	1845.4	1846.6	2075.2	2307.1
55°	2357.2	2345.3	2444.8	2592.6	2706.9	2689.4	2251.5	1968.5	1980.0	2304.6	2519.1
57.5°	2452.4	2422.7	2442.2	2564.5	2672.0	2661.8	2320.3	2105.3	2126.1	2568.8	2714.9
60°	2747.6	2686.9	2583.2	2606.2	2673.3	2667.3	2418.8	2257.8	2292.7	2844.1	2839.0
62.5°	3189.9	3121.0	2909.9	2808.0	2793.1	2781.6	2581.5	2445.2	2462.6	3042.9	2766.8
65°	3675.0	3601.1	3350.0	3183.1	3095.6	3070.9	2844.1	2671.2	2562.0	3042.5	2485.5
67.5°	4219.6	4141.4	3891.2	3731.9	3637.2	3595.1	3270.1	2853.8	2529.7	2785.0	1988.9
70°	4777.4	4703.0	4588.3	4644.0	4685.6	4621.5	3941.3	2914.6	2297.8	2183.5	1335.6
72.5°	4481.3	4475.3	4562.4	5090.0	5892.5	5905.2	4611.7	2743.0	1775.3	1297.8	712.0
73°	4206.4	4231.5	4392.9	5024.2	5995.7	5999.9	4624.8	2654.2	1630.0	1118.1	625.3
75°	2179.2	2349.2	2948.1	4073.9	5551.8	5571.7	4076.9	2009.3	971.5	621.1	421.4
77.5°	583.7	576.0	949.9	1984.7	3701.3	3675.0	2576.0	972.8	465.6	389.5	295.7
80°	200.1	202.6	323.3	726.0	1727.7	1789.3	1118.1	424.4	306.3	271.5	209.4
82.5°	102.0	105.4	169.1	308.8	722.6	707.3	359.8	249.8	205.2	164.8	117.2
85°	54.4	56.1	93.0	160.2	265.1	268.1	126.6	133.4	130.4	93.5	57.8
87.5°	26.8	27.6	44.6	70.5	98.1	94.7	44.2	57.8	64.1	52.7	31.9
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°	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
2.5°	1005.9	1005.9	1011.5	1020.8	1027.6	1034.0	1038.2	1045.0	1048.8	1048.4	1048.0
5°	999.1	1003.4	1014.4	1025.9	1033.5	1038.6	1038.6	1041.6	1041.6	1040.3	1038.6
7.5°	983.4	990.6	1006.8	1017.0	1019.1	1013.6	1002.5	994.0	983.4	977.9	975.8
10°	958.4	967.7	988.1	992.8	981.7	962.2	935.4	912.5	892.1	882.7	879.8
12.5°	933.7	946.0	965.2	957.9	931.6	893.4	852.2	820.7	797.8	788.9	785.9
15°	913.3	928.2	943.1	920.6	874.7	821.6	776.1	746.8	729.4	722.6	720.9
17.5°	899.7	917.2	922.3	880.2	816.5	757.0	716.6	697.5	689.9	686.9	686.1
20°	900.6	920.1	907.8	841.1	760.4	700.5	673.7	668.2	668.2	668.2	667.8
22.5°	924.0	940.9	901.9	804.6	706.5	652.9	641.5	646.1	649.5	649.5	649.1
25°	972.4	981.7	906.1	769.3	655.9	611.7	612.1	621.1	624.0	624.0	623.2
27.5°	1046.3	1038.6	913.8	730.2	606.2	574.3	580.3	588.4	590.5	589.2	588.8
30°	1138.9	1108.3	920.1	684.4	559.5	539.5	544.6	549.3	547.6	544.6	544.2
32.5°	1242.6	1179.3	916.3	633.0	518.3	503.4	506.4	508.9	506.4	499.1	499.1
35°	1345.4	1243.4	895.5	576.9	485.6	468.6	468.1	476.2	475.8	467.3	467.7
37.5°	1435.4	1294.0	855.1	525.5	457.5	443.1	444.8	449.9	452.4	440.9	439.7
40°	1514.0	1328.8	798.2	481.7	435.0	435.8	431.2	423.1	420.1	415.0	414.2
42.5°	1587.9	1353.0	737.9	445.2	423.5	433.3	417.6	398.5	390.4	395.1	398.0
45°	1660.6	1380.2	679.7	415.0	409.1	425.7	404.0	382.7	373.4	375.5	378.5
47.5°	1749.3	1418.0	609.6	382.7	387.0	411.6	395.5	372.6	358.5	350.0	347.5
50°	1866.2	1472.8	518.7	347.9	363.6	396.3	388.3	357.7	342.4	325.4	321.2
52.5°	2012.3	1524.6	426.9	319.9	344.5	383.2	376.4	344.9	326.3	305.9	302.5
55°	2158.0	1531.8	347.9	295.7	322.9	365.3	361.9	334.7	308.4	291.8	288.4
57.5°	2260.0	1463.5	294.8	275.3	302.0	343.2	348.8	322.4	293.5	280.8	278.7
60°	2261.7	1299.9	262.5	261.7	286.3	324.1	335.2	308.0	284.2	275.7	274.0
62.5°	2082.0	1047.6	241.7	251.5	274.8	308.4	325.0	299.9	282.1	278.7	277.0
65°	1745.1	774.0	225.1	242.1	264.2	295.2	316.5	297.4	281.2	279.9	278.7
67.5°	1288.4	530.6	211.1	230.2	252.3	281.6	308.4	293.5	276.1	281.2	279.5
70°	810.5	354.3	198.0	216.7	236.6	265.9	297.8	286.7	269.8	266.8	261.3
72.5°	457.5	256.2	182.2	199.2	216.2	245.1	283.3	275.3	255.3	243.4	237.9
73°	413.3	242.6	178.4	195.0	211.6	240.9	279.9	271.9	251.1	237.9	232.8
75°	302.5	198.4	161.0	177.6	192.0	221.3	263.8	254.9	232.4	216.7	213.3
77.5°	219.2	152.9	138.5	153.4	166.1	194.1	239.6	229.4	207.3	198.8	195.4
80°	158.0	116.0	114.7	129.1	140.2	168.6	213.7	203.1	181.8	206.9	201.4
82.5°	94.3	74.3	84.1	100.3	111.7	141.5	185.6	173.3	152.9	154.6	131.7
85°	45.0	42.1	52.3	65.8	73.9	96.9	154.6	144.9	122.3	100.3	98.1
87.5°	20.0	19.1	25.1	29.3	39.5	58.2	105.8	93.9	88.8	53.1	41.6
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)