

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: P198790

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198790
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
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 6234.9 lumens
Efficiency: N/A
Efficacy: 107.5 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

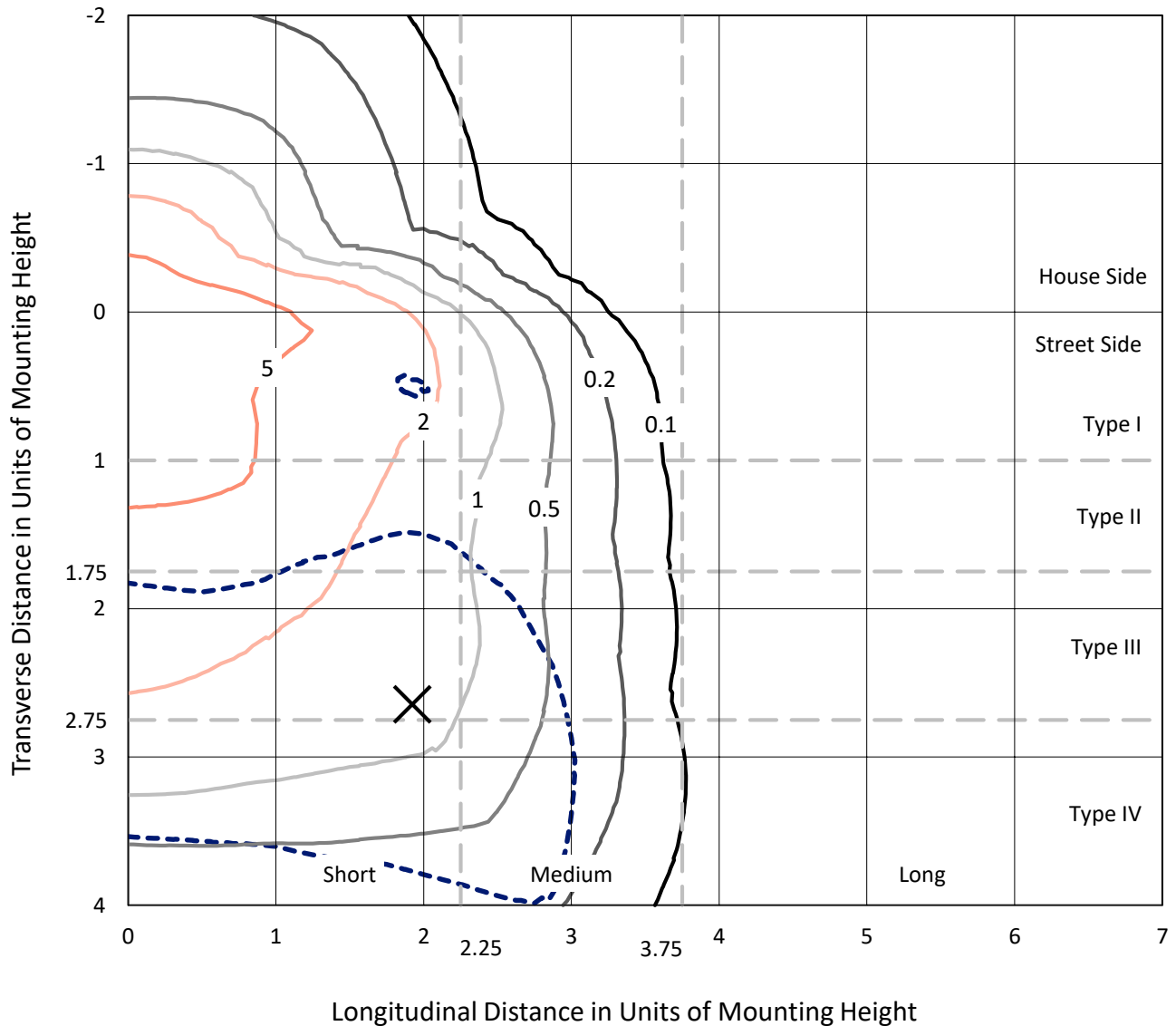
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

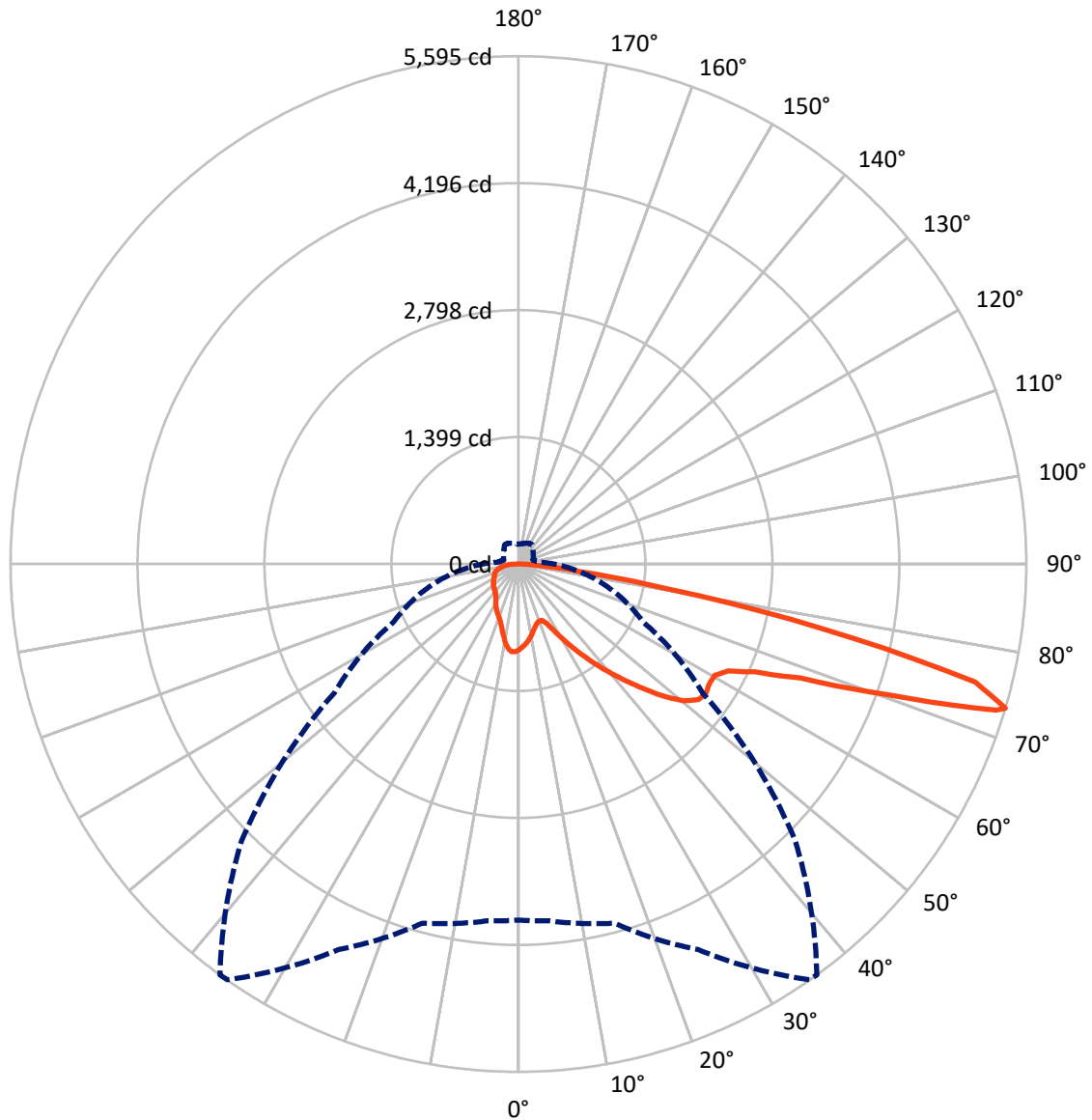


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - Non-Cutoff

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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	1202.3	0.0	1202.3
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	5032.6	0.0	5032.6
	% Fixture	80.7	0.0	80.7
Total	Lumens	6234.9	0.0	6234.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.4
10°-20°	215.4	3.5
20°-30°	345.4	5.5
30°-40°	571.3	9.2
40°-50°	884.1	14.2
50°-60°	1183.5	19.0
60°-70°	1546.0	24.8
70°-80°	1262.8	20.3
80°-90°	140.6	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°	6234.9	100.0
0°-180°	6234.9	100.0

Coefficient of Utilization



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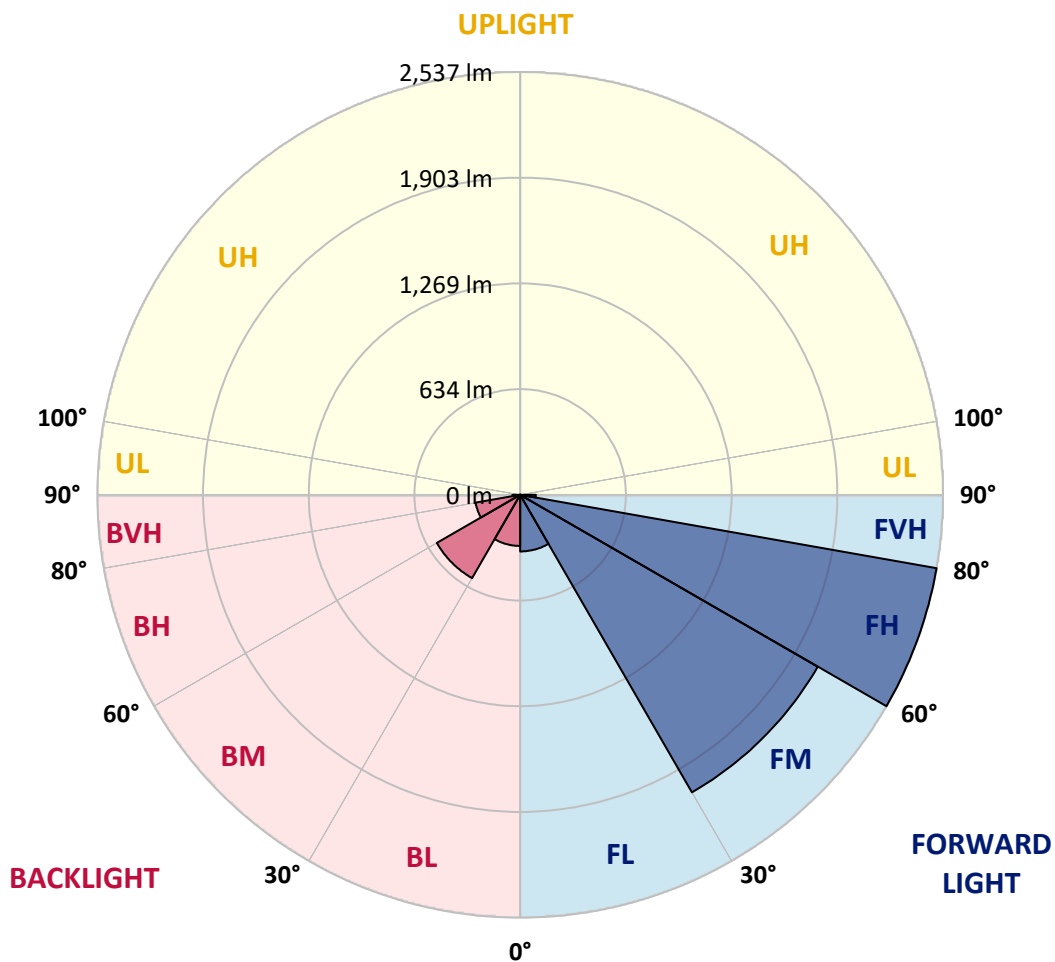
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.7	5.4			
FM (30°-60°)	2061.5	33.1			
FH (60°-80°)	2537.1	40.7			G2/5000
FVH (80°-90°)	94.3	1.5			G1/100
BL (0°-30°)	306.9	4.9	B1/500		
BM (30°-60°)	577.4	9.3	B1/1000		
BH (60°-80°)	271.7	4.4	B1/500		G1/500
BVH (80°-90°)	46.3	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°	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4
2.5°	908.4	910.7	911.1	913.9	913.9	913.5	914.7	919.4	921.8	927.4	932.1
5°	863.6	866.3	867.6	872.3	878.2	878.6	883.0	892.1	900.8	913.1	923.4
7.5°	813.2	816.4	819.6	829.5	838.2	839.0	847.3	862.0	873.5	888.5	907.2
10°	764.6	765.4	768.5	781.2	792.7	793.9	805.8	822.4	837.8	858.9	879.8
12.5°	724.6	726.9	726.1	735.6	745.5	746.3	762.2	783.2	805.8	829.5	854.5
15°	710.6	710.2	701.9	701.5	705.9	706.8	722.2	746.8	772.1	801.4	833.5
17.5°	720.2	717.0	695.2	681.8	679.0	679.8	691.3	718.2	745.1	778.8	817.2
20°	772.4	760.2	709.1	676.6	667.5	667.5	674.2	696.0	725.8	765.0	813.2
22.5°	896.5	877.5	768.5	710.6	678.6	675.5	670.2	686.9	719.7	766.9	829.5
25°	1052.5	1043.4	877.5	801.4	735.2	725.0	690.9	696.8	732.0	788.3	873.9
27.5°	1197.2	1181.3	1020.5	933.3	839.8	824.0	751.9	727.7	761.4	828.0	938.0
30°	1281.6	1270.8	1167.4	1084.2	972.9	952.7	849.4	788.7	813.7	893.3	1029.2
32.5°	1373.4	1367.1	1314.8	1239.1	1117.2	1093.7	975.3	888.1	893.6	980.1	1139.0
35°	1462.5	1470.9	1441.1	1385.7	1272.4	1250.7	1144.5	1018.0	992.4	1077.5	1256.2
37.5°	1569.5	1571.5	1552.8	1516.8	1435.6	1417.8	1330.2	1156.8	1099.7	1181.3	1369.4
40°	1783.0	1751.7	1678.9	1650.3	1602.0	1590.9	1491.1	1283.9	1199.5	1287.9	1476.4
42.5°	2014.0	1965.3	1851.1	1804.4	1785.0	1774.7	1625.0	1368.7	1293.0	1394.4	1581.4
45°	2200.2	2160.6	2048.9	1991.0	1993.4	1976.8	1741.9	1444.3	1394.4	1501.4	1698.6
47.5°	2383.6	2317.4	2192.3	2183.9	2211.6	2187.1	1853.6	1520.0	1500.2	1617.8	1815.9
50°	2395.4	2335.3	2284.6	2351.2	2398.6	2368.1	1955.0	1619.0	1609.9	1758.9	1967.2
52.5°	2250.9	2242.2	2319.4	2431.6	2510.3	2483.0	2037.7	1720.8	1722.0	1935.1	2151.5
55°	2198.2	2187.1	2279.9	2417.6	2524.2	2508.0	2099.5	1835.7	1846.4	2149.1	2349.1
57.5°	2286.9	2259.2	2277.4	2391.6	2491.7	2482.2	2163.7	1963.2	1982.7	2395.4	2531.7
60°	2562.3	2505.6	2408.9	2430.3	2492.9	2487.4	2255.6	2105.5	2138.0	2652.2	2647.4
62.5°	2974.6	2910.5	2713.6	2618.5	2604.6	2593.9	2407.3	2280.2	2296.4	2837.6	2580.1
65°	3427.0	3358.1	3124.0	2968.3	2886.7	2863.8	2652.2	2491.0	2389.1	2837.2	2317.8
67.5°	3934.9	3861.9	3628.7	3480.1	3391.8	3352.5	3049.5	2661.3	2359.0	2597.1	1854.7
70°	4455.1	4385.7	4278.7	4330.7	4369.4	4309.6	3675.4	2718.0	2142.8	2036.2	1245.4
72.5°	4179.0	4173.3	4254.6	4746.6	5494.9	5506.7	4300.5	2557.9	1655.4	1210.3	663.9
73°	3922.6	3945.9	4096.5	4685.2	5591.1	5595.1	4312.8	2475.1	1520.0	1042.7	583.1
75°	2032.2	2190.6	2749.2	3799.0	5177.2	5195.8	3801.8	1873.7	906.0	579.2	393.0
77.5°	544.3	537.2	885.8	1850.8	3451.6	3427.0	2402.2	907.2	434.1	363.2	275.7
80°	186.6	188.9	301.5	677.0	1611.1	1668.5	1042.7	395.8	285.6	253.2	195.3
82.5°	95.0	98.2	157.6	288.0	673.8	659.6	335.5	232.9	191.3	153.7	109.4
85°	50.7	52.3	86.7	149.4	247.1	250.0	118.0	124.4	121.6	87.2	53.9
87.5°	25.0	25.8	41.6	65.8	91.6	88.4	41.2	53.9	59.8	49.1	29.7
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°	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4
2.5°	938.0	938.0	943.3	952.0	958.3	964.2	968.2	974.5	978.0	977.6	977.3
5°	931.7	935.7	946.0	956.7	963.8	968.5	968.5	971.3	971.3	970.2	968.5
7.5°	917.1	923.8	938.9	948.4	950.3	945.2	934.9	927.0	917.1	912.0	909.9
10°	893.6	902.4	921.5	925.8	915.4	897.2	872.3	850.9	831.9	823.2	820.4
12.5°	870.7	882.2	900.0	893.3	868.7	833.1	794.6	765.4	744.0	735.6	732.8
15°	851.7	865.6	879.4	858.5	815.7	766.2	723.7	696.4	680.2	673.8	672.3
17.5°	839.0	855.3	860.0	820.8	761.4	705.9	668.3	650.5	643.3	640.6	639.8
20°	839.8	858.1	846.6	784.4	709.1	653.3	628.3	623.2	623.2	623.2	622.8
22.5°	861.6	877.5	841.0	750.3	658.8	608.9	598.2	602.5	605.7	605.7	605.3
25°	906.7	915.4	845.0	717.4	611.6	570.4	570.8	579.2	582.0	582.0	581.1
27.5°	975.7	968.5	852.1	681.0	565.3	535.6	541.1	548.6	550.7	549.4	549.0
30°	1062.0	1033.5	858.1	638.2	521.7	503.1	507.9	512.2	510.7	507.9	507.5
32.5°	1158.7	1099.7	854.5	590.2	483.3	469.4	472.2	474.5	472.2	465.4	465.4
35°	1254.5	1159.5	835.0	538.0	452.8	436.9	436.6	444.1	443.7	435.8	436.2
37.5°	1338.5	1206.7	797.4	490.0	426.7	413.2	414.8	419.5	421.9	411.2	410.0
40°	1411.9	1239.1	744.4	449.2	405.6	406.4	402.1	394.6	391.8	387.0	386.3
42.5°	1480.8	1261.7	688.1	415.1	395.0	404.1	389.4	371.5	364.1	368.4	371.2
45°	1548.5	1287.1	633.8	387.0	381.5	396.9	376.8	356.9	348.2	350.2	352.9
47.5°	1631.3	1322.4	568.5	356.9	360.9	383.8	368.8	347.4	334.3	326.4	324.1
50°	1740.2	1373.4	483.7	324.5	339.1	369.6	362.1	333.6	319.3	303.4	299.5
52.5°	1876.5	1421.8	398.1	298.3	321.3	357.3	351.0	321.7	304.2	285.2	282.0
55°	2012.5	1428.4	324.5	275.7	301.1	340.6	337.5	312.2	287.6	272.1	268.9
57.5°	2107.5	1364.7	275.0	256.7	281.6	320.1	325.2	300.6	273.7	261.9	259.8
60°	2109.0	1212.2	244.8	244.0	267.0	302.3	312.5	287.2	265.0	257.1	255.5
62.5°	1941.5	976.9	225.4	234.6	256.4	287.6	303.0	279.7	263.0	259.8	258.3
65°	1627.3	721.8	209.9	225.8	246.4	275.3	295.1	277.3	262.3	261.1	259.8
67.5°	1201.5	494.8	196.9	214.7	235.3	262.6	287.6	273.7	257.5	262.3	260.6
70°	755.9	330.4	184.6	202.0	220.7	248.0	277.7	267.4	251.5	248.8	243.7
72.5°	426.7	238.9	169.9	185.8	201.6	228.5	264.2	256.7	238.0	227.0	221.9
73°	385.4	226.2	166.3	181.8	197.3	224.6	261.1	253.5	234.2	221.9	217.1
75°	282.0	184.9	150.2	165.6	179.0	206.4	246.0	237.7	216.7	202.0	198.9
77.5°	204.4	142.6	129.1	143.0	154.9	181.1	223.4	213.9	193.3	185.4	182.2
80°	147.4	108.1	107.0	120.4	130.7	157.2	199.3	189.3	169.5	192.9	187.8
82.5°	88.0	69.4	78.5	93.5	104.1	132.0	173.1	161.6	142.6	144.2	122.8
85°	41.9	39.2	48.7	61.4	68.9	90.3	144.2	135.1	114.1	93.5	91.6
87.5°	18.6	17.8	23.3	27.3	36.8	54.3	98.6	87.6	82.8	49.5	38.9
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)