

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: P321765

Luminaire Tested: **GAN-SA1C-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4525 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

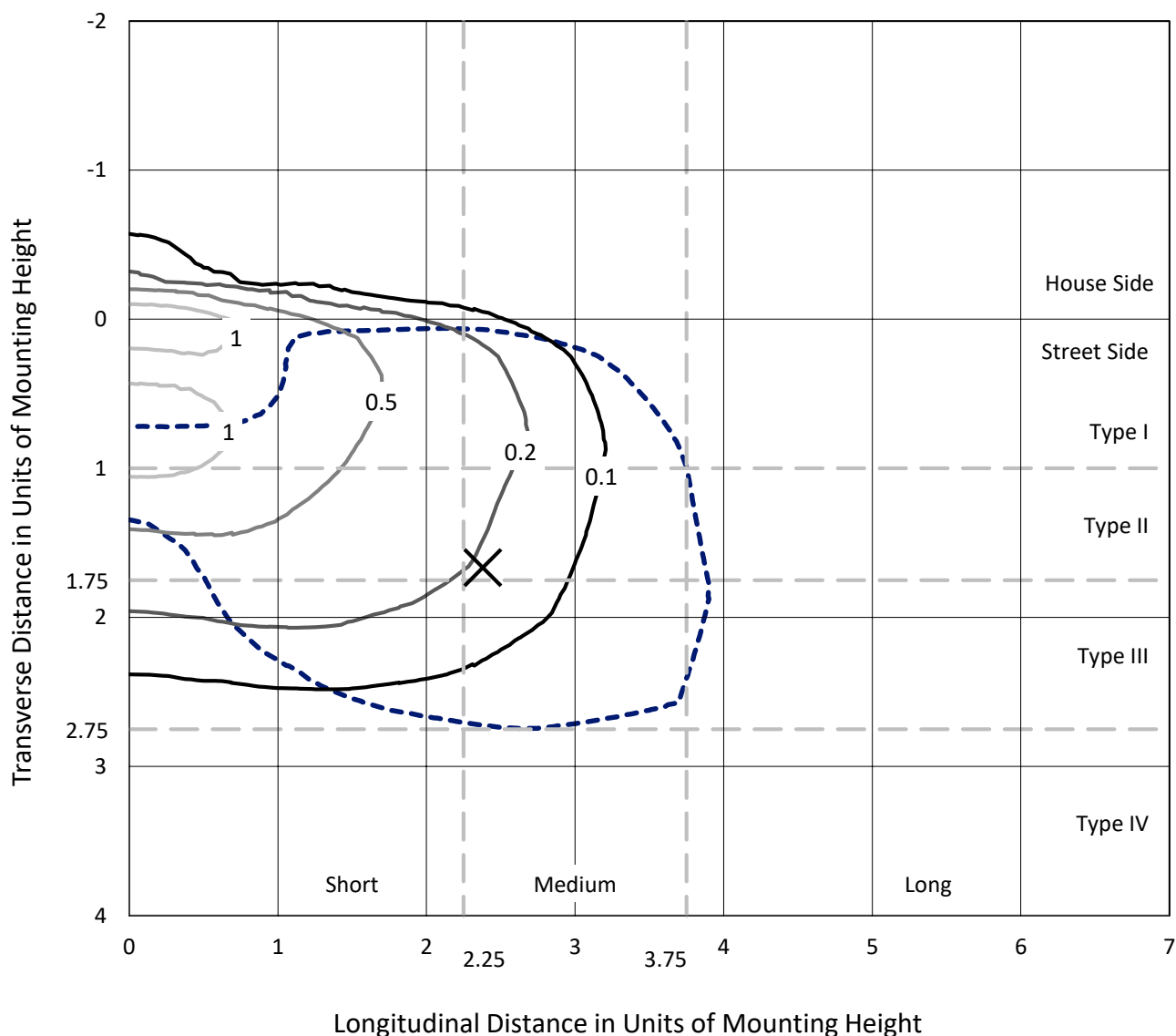
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

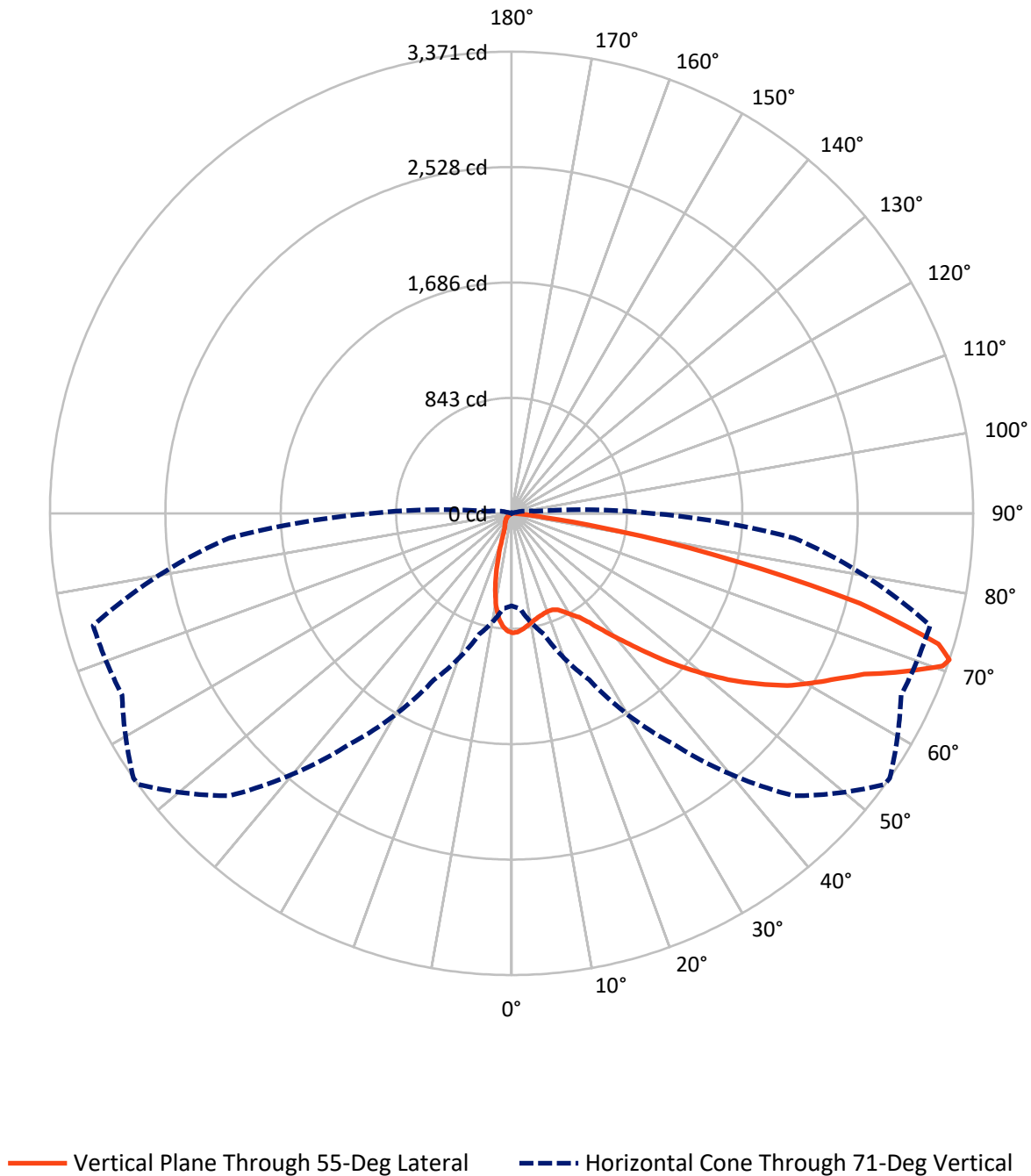
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	358.3	0.0	358.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	4166.7	0.0	4166.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	4525.0	0.0	4525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	1.6
10°-20°	168.0	3.7
20°-30°	269.9	6.0
30°-40°	458.7	10.1
40°-50°	711.9	15.7
50°-60°	957.1	21.2
60°-70°	1170.9	25.9
70°-80°	684.6	15.1
80°-90°	29.6	0.7
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°	4525.0	100.0
0°-180°	4525.0	100.0

Coefficient of Utilization



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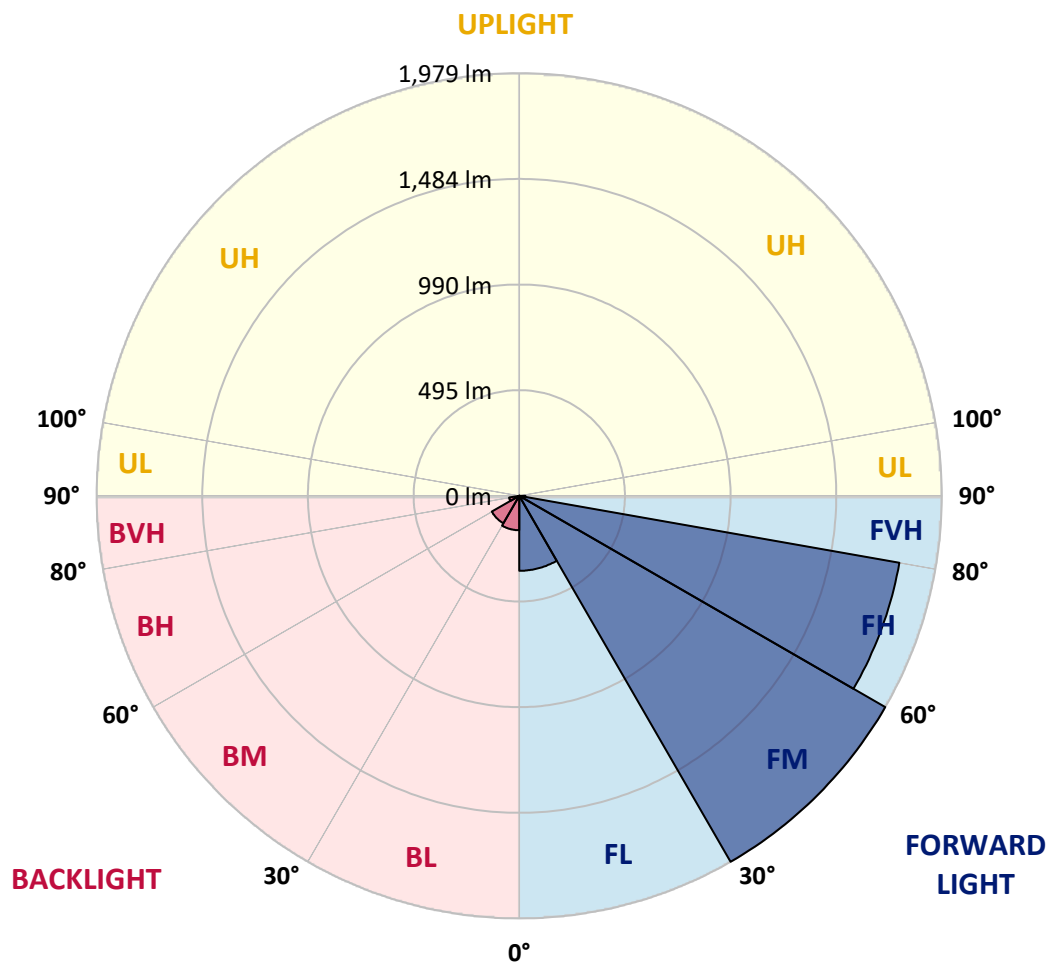
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.1	7.8			
FM	(30°-60°)	1979.1	43.7			
FH	(60°-80°)	1807.4	39.9			G2/5000
FVH	(80°-90°)	29.1	0.6			G1/100
BL	(0°-30°)	161.3	3.6	B1/500		
BM	(30°-60°)	148.5	3.3	B0/220		
BH	(60°-80°)	48.0	1.1	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7
2.5°	847.1	848.1	851.7	853.4	857.2	863.7	867.0	867.2	872.5	874.5	876.1
5°	787.1	793.2	799.3	805.8	817.6	833.2	848.7	850.1	867.2	879.8	886.5
7.5°	735.5	741.0	748.3	758.7	775.3	799.9	825.7	828.8	861.1	889.7	904.8
10°	682.5	687.0	697.5	712.8	735.7	768.6	803.4	808.5	855.6	903.1	929.6
12.5°	625.8	628.4	641.2	663.2	696.9	738.8	784.5	791.2	852.1	918.6	958.8
15°	582.7	583.9	596.1	618.9	657.5	711.9	769.9	778.0	853.0	937.1	990.7
17.5°	571.8	572.4	578.9	594.5	628.6	688.0	758.3	768.2	855.4	955.2	1022.8
20°	616.2	612.0	605.3	602.8	617.5	673.5	751.4	762.5	858.6	971.2	1051.7
22.5°	738.4	725.8	697.9	660.7	638.2	674.6	753.2	764.4	869.0	990.9	1085.0
25°	919.6	902.1	854.8	781.6	711.3	703.8	768.4	779.8	889.1	1014.5	1116.9
27.5°	1125.8	1108.6	1050.6	946.2	826.3	761.7	803.4	813.9	919.0	1035.4	1141.3
30°	1323.3	1318.4	1250.2	1131.5	971.0	855.6	848.5	857.4	941.1	1048.0	1160.6
32.5°	1490.7	1483.0	1428.2	1312.8	1136.6	968.4	901.5	904.2	957.8	1064.3	1185.8
35°	1646.0	1636.4	1588.3	1479.2	1306.5	1106.1	983.2	979.3	994.2	1097.0	1222.3
37.5°	1781.5	1790.2	1736.8	1633.0	1458.8	1249.4	1093.3	1081.7	1051.1	1150.2	1275.4
40°	1894.9	1894.9	1867.0	1780.5	1623.4	1397.5	1217.9	1202.6	1136.6	1232.3	1342.6
42.5°	1935.7	1944.4	1954.8	1905.8	1770.7	1551.5	1356.6	1340.8	1257.1	1348.7	1427.5
45°	1938.1	1952.0	2005.0	2004.8	1903.8	1704.5	1513.1	1505.6	1411.5	1498.3	1532.8
47.5°	1903.8	1921.1	2008.4	2058.0	2009.3	1846.9	1684.2	1674.8	1592.9	1681.5	1642.9
50°	1850.8	1869.9	1971.5	2078.9	2081.0	1970.9	1864.4	1850.4	1792.7	1891.0	1756.7
52.5°	1755.9	1792.9	1938.3	2083.8	2128.1	2077.9	2035.9	2029.8	2016.2	2092.8	1847.3
55°	1552.9	1594.0	1855.2	2085.4	2171.8	2172.8	2196.6	2198.2	2225.6	2281.3	1914.8
57.5°	1457.0	1480.2	1710.2	2093.2	2236.6	2280.5	2360.4	2373.0	2415.4	2460.3	1991.8
60°	1396.7	1424.1	1638.7	2082.6	2338.4	2421.7	2512.1	2516.4	2561.9	2645.0	2096.0
62.5°	1348.5	1375.5	1593.5	2042.0	2452.8	2591.6	2660.5	2660.9	2695.0	2865.1	2214.5
65°	1229.7	1252.4	1502.3	1996.3	2528.4	2759.6	2832.7	2830.1	2857.9	3097.1	2352.0
67.5°	1057.8	1075.2	1316.0	1822.9	2499.9	2912.4	3092.8	3084.1	3050.4	3297.6	2406.1
70°	817.8	824.1	1037.2	1519.2	2233.4	2971.1	3344.2	3339.7	3168.4	3261.7	2208.0
71°	676.0	696.7	914.1	1340.8	2054.8	2916.9	3368.5	3371.2	3138.7	3163.7	2071.6
72.5°	392.5	410.2	662.6	1029.7	1744.5	2690.5	3242.2	3261.3	3000.2	2877.7	1769.5
75°	84.1	90.0	245.6	498.4	959.6	1885.7	2559.1	2627.1	2445.3	1957.6	1066.5
77.5°	58.5	63.2	105.2	226.1	317.2	931.8	1589.7	1666.5	1460.9	735.7	341.3
80°	46.3	51.6	82.1	111.7	85.7	300.5	744.7	791.6	487.2	164.2	57.5
82.5°	25.8	30.7	64.0	60.3	32.9	57.1	208.5	235.7	97.5	33.1	13.6
85°	7.5	9.1	41.2	43.9	14.0	11.0	35.6	44.1	18.5	8.7	6.1
87.5°	0.0	0.0	19.9	16.9	4.1	1.6	3.3	3.7	3.7	3.7	4.1
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°	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7	872.7
2.5°	876.1	877.5	872.5	865.8	858.6	849.9	840.8	833.7	833.4	830.0	826.5
5°	886.9	886.1	872.1	850.7	825.5	799.3	774.3	746.1	736.7	725.2	721.3
7.5°	906.8	901.1	871.4	824.7	769.4	714.6	657.9	600.8	576.4	554.5	550.6
10°	931.8	921.0	867.6	785.7	684.3	583.1	497.6	420.0	385.8	359.6	358.4
12.5°	957.8	941.3	856.8	726.8	572.8	430.5	332.0	255.6	227.2	208.9	210.5
15°	985.0	960.4	833.7	647.3	445.8	292.2	204.0	159.1	147.7	143.0	144.3
17.5°	1012.9	973.6	801.3	551.6	320.4	188.6	141.2	128.6	128.6	129.6	130.0
20°	1037.0	980.8	753.8	444.4	217.2	137.4	123.5	121.7	122.7	124.3	124.5
22.5°	1061.0	981.2	691.8	335.7	152.0	120.3	117.6	116.8	117.4	119.3	119.5
25°	1080.5	976.3	614.2	238.7	121.3	113.4	112.2	111.7	112.2	114.4	114.4
27.5°	1088.4	958.6	519.5	167.8	108.7	105.7	105.2	105.7	106.3	107.9	108.1
30°	1089.3	927.7	416.3	121.5	98.5	95.3	96.1	97.5	96.9	96.5	96.9
32.5°	1091.3	892.0	315.7	100.0	90.0	84.9	83.9	83.9	81.5	80.1	79.2
35°	1098.0	849.9	229.0	89.8	81.3	75.4	71.5	67.0	62.4	59.9	59.3
37.5°	1108.6	805.8	164.0	83.1	73.6	66.8	59.5	51.6	44.9	43.1	43.1
40°	1127.9	760.3	121.3	77.8	67.5	59.1	48.2	37.8	31.7	30.7	30.7
42.5°	1158.3	712.4	96.7	73.1	62.2	51.2	36.8	27.4	23.0	22.3	22.1
45°	1190.0	659.5	84.5	68.7	56.5	42.1	27.2	20.3	17.7	17.1	17.1
47.5°	1221.7	603.2	78.6	64.4	51.0	32.7	20.3	16.1	14.8	14.8	15.0
50°	1248.5	544.5	74.4	59.7	43.9	24.8	16.1	13.6	13.2	14.0	14.2
52.5°	1255.3	486.8	69.1	53.8	35.2	18.9	13.2	12.0	12.0	12.0	12.0
55°	1251.2	442.1	62.2	46.5	26.0	15.0	11.4	10.6	10.4	10.4	10.4
57.5°	1265.0	415.7	49.8	36.2	18.7	12.2	10.0	9.3	8.9	8.7	8.7
60°	1292.8	398.4	35.6	26.0	14.0	10.2	8.5	7.9	7.3	6.9	6.9
62.5°	1329.8	383.4	26.4	19.3	10.8	8.1	7.1	6.5	5.7	5.3	5.3
65°	1358.3	356.6	20.1	14.4	8.1	6.5	5.5	5.3	4.1	3.7	3.5
67.5°	1314.8	297.7	16.3	10.6	6.1	5.1	4.3	4.1	2.4	2.0	2.0
70°	1127.7	207.2	13.0	7.7	4.5	4.1	3.5	2.6	1.8	1.6	1.6
71°	1022.6	173.1	11.8	6.5	3.9	3.9	3.3	2.2	1.6	1.4	1.4
72.5°	849.5	122.9	10.0	5.1	3.5	4.1	3.5	2.0	1.6	1.4	1.2
75°	493.1	51.4	6.9	3.5	2.6	4.9	4.5	1.8	1.2	1.0	1.0
77.5°	148.3	18.9	3.9	2.2	2.0	4.3	5.1	1.6	0.6	0.2	0.2
80°	27.0	8.1	2.4	1.4	1.4	2.6	3.9	0.8	0.0	0.0	0.0
82.5°	9.5	4.1	1.4	0.8	0.6	1.2	1.8	0.0	0.0	0.0	0.0
85°	5.5	2.8	0.8	0.4	0.0	0.2	0.4	0.0	0.0	0.0	0.0
87.5°	3.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)