

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: P323105

Luminaire Tested: **GAN-SA1A-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3380 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

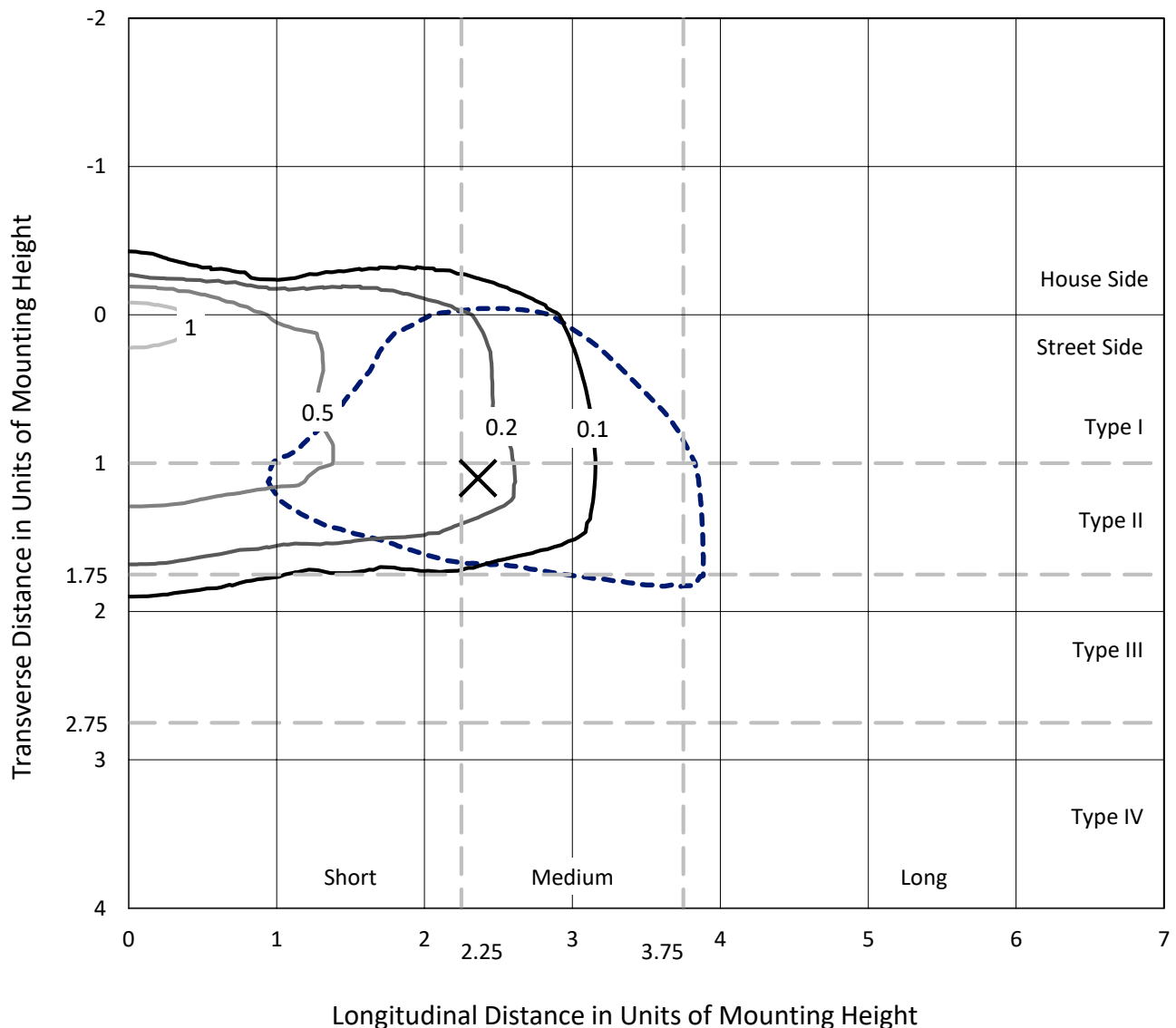
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

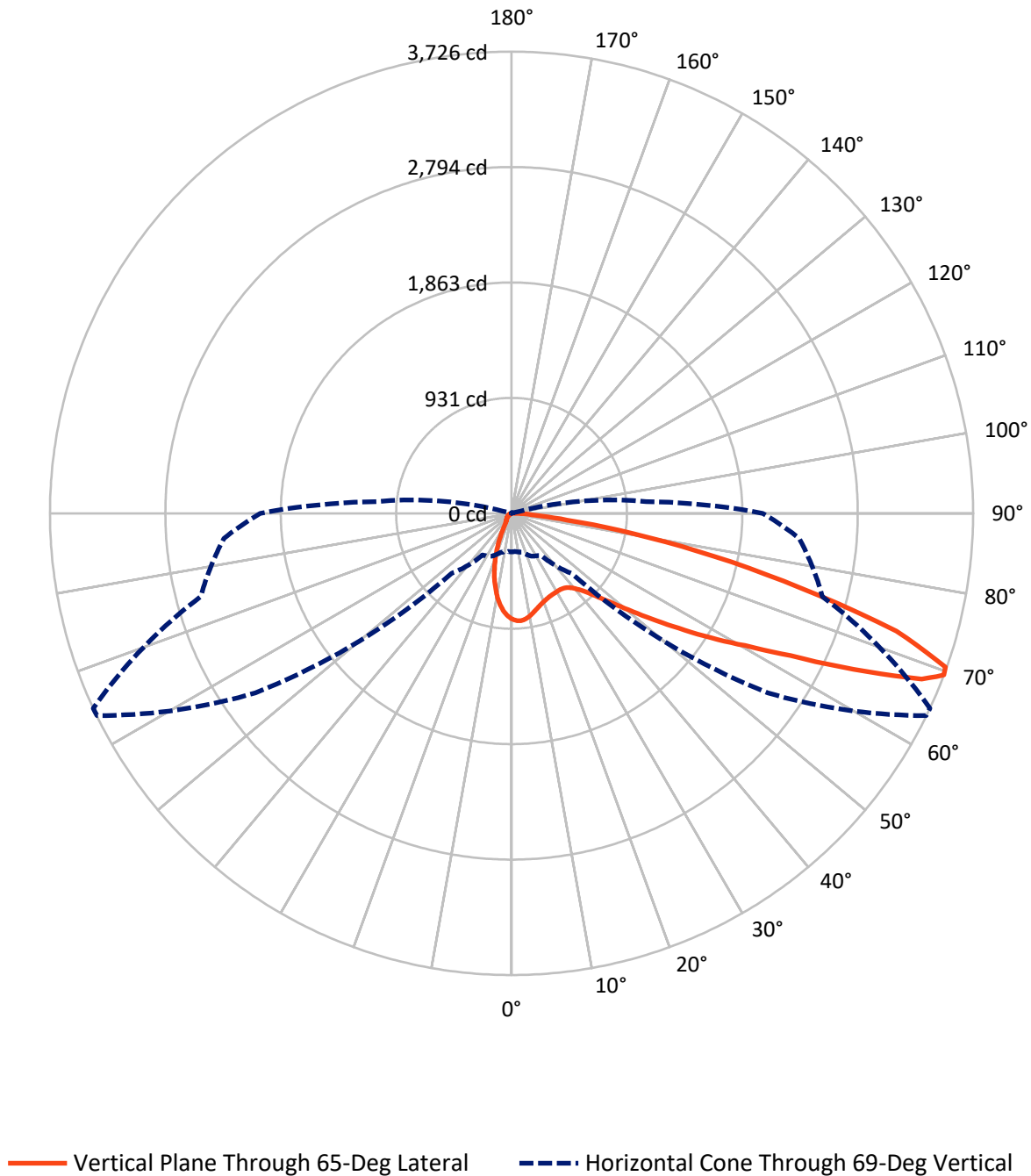
× Max cd
 - - - 1/2 Max cd



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	398.4	0.0	398.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	2981.6	0.0	2981.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	3380.0	0.0	3380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	2.1
10°-20°	156.3	4.6
20°-30°	216.5	6.4
30°-40°	301.9	8.9
40°-50°	469.3	13.9
50°-60°	753.4	22.3
60°-70°	852.2	25.2
70°-80°	500.5	14.8
80°-90°	58.2	1.7
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°	3380.0	100.0
0°-180°	3380.0	100.0

Coefficient of Utilization



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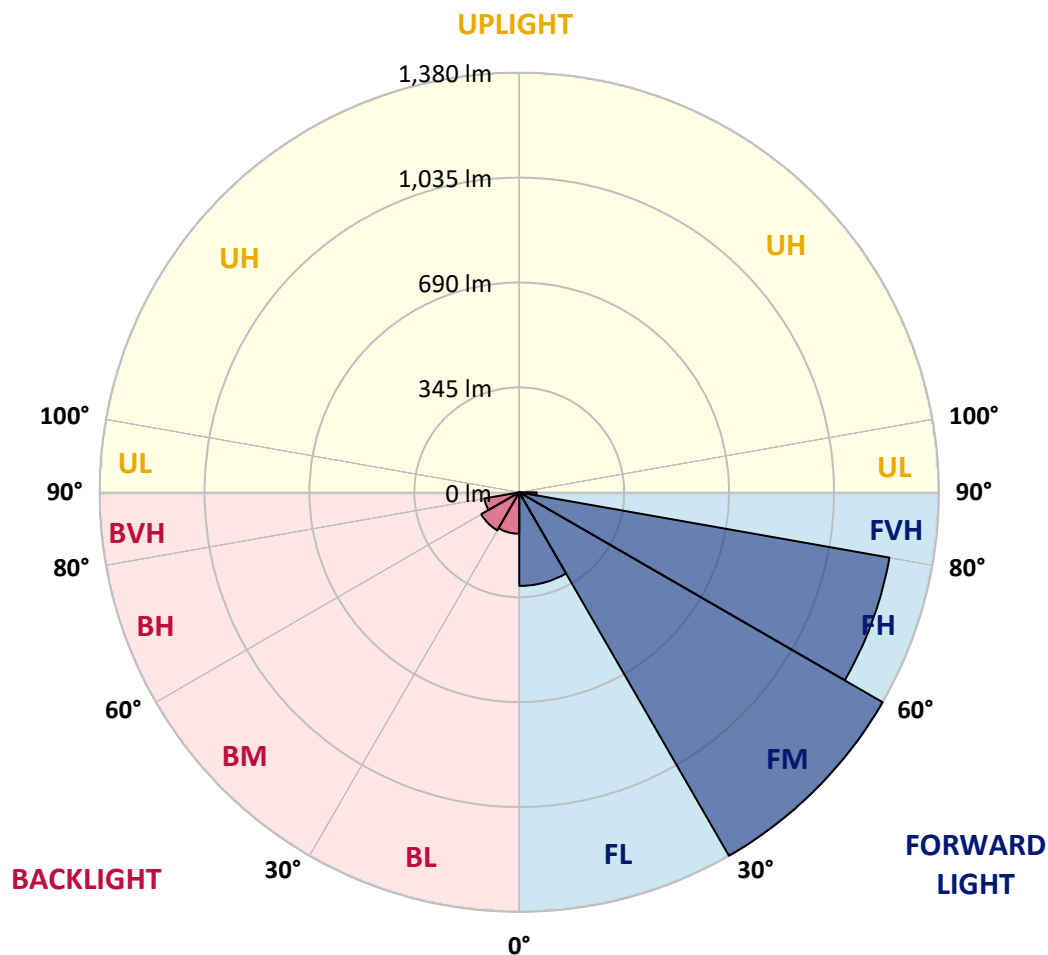
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	308.0	9.1			
FM	(30°-60°)	1380.3	40.8			
FH	(60°-80°)	1236.4	36.6			G1/1800
FVH	(80°-90°)	56.9	1.7			G1/100
BL	(0°-30°)	136.3	4.0	B1/500		
BM	(30°-60°)	144.4	4.3	B0/220		
BH	(60°-80°)	116.4	3.4	B1/500		G1/500
BVH	(80°-90°)	1.3	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1
2.5°	861.7	859.6	861.3	865.0	866.9	866.9	868.3	866.6	867.1	863.0	857.0
5°	807.8	804.5	809.2	819.7	832.5	843.5	859.9	868.4	869.3	869.4	862.4
7.5°	749.7	746.7	753.7	766.0	782.6	803.1	831.5	856.4	857.9	871.3	866.1
10°	702.5	700.4	708.5	721.7	741.1	764.0	798.9	833.5	837.7	867.4	865.6
12.5°	665.1	663.3	671.1	686.2	706.1	731.4	767.9	808.1	813.7	858.7	862.7
15°	637.7	637.5	643.9	658.5	680.5	704.1	741.4	784.5	790.9	849.3	862.3
17.5°	623.4	623.9	628.6	641.0	659.9	683.4	719.1	764.6	771.6	840.8	864.4
20°	622.0	622.4	625.0	632.0	647.3	668.1	701.0	747.9	755.2	834.5	867.9
22.5°	634.6	634.3	635.0	634.3	642.9	658.6	688.9	735.0	743.4	830.4	870.6
25°	658.8	658.3	658.0	652.8	647.0	655.5	683.9	727.7	735.7	827.4	872.2
27.5°	692.4	692.1	691.7	682.9	665.8	660.5	684.5	725.0	731.7	825.0	871.9
30°	736.6	738.6	738.0	725.8	699.1	675.8	690.5	723.6	729.4	820.2	868.9
32.5°	788.5	792.5	795.6	782.6	749.2	706.1	704.4	725.1	729.4	816.7	863.4
35°	842.4	847.6	859.1	854.6	810.5	751.7	728.3	734.6	738.1	818.7	860.9
37.5°	895.5	901.6	926.8	940.1	890.9	812.1	765.5	757.9	759.7	830.8	863.7
40°	957.1	966.4	1004.6	1026.0	986.9	892.9	821.1	797.9	798.6	857.6	877.0
42.5°	1038.1	1047.6	1089.0	1122.6	1095.0	995.0	896.6	859.1	858.4	907.6	908.3
45°	1136.7	1146.8	1189.5	1226.8	1214.4	1116.0	993.3	948.5	947.7	986.6	967.7
47.5°	1248.6	1258.5	1296.6	1335.1	1348.6	1257.3	1116.4	1070.5	1068.5	1096.3	1059.4
50°	1344.6	1351.0	1386.2	1438.0	1498.6	1430.9	1269.6	1225.4	1223.3	1242.0	1194.0
52.5°	1379.5	1383.2	1418.9	1491.4	1642.8	1666.1	1470.8	1413.9	1412.3	1420.5	1373.2
55°	1308.8	1315.5	1359.4	1467.0	1720.8	1931.8	1724.9	1647.3	1635.5	1617.9	1560.5
57.5°	1116.3	1127.0	1174.2	1317.2	1684.4	2142.6	2098.1	1911.4	1893.9	1786.4	1712.8
60°	836.4	849.6	888.7	1043.1	1489.7	2217.7	2506.0	2205.6	2166.2	1920.5	1852.9
62.5°	574.0	580.5	607.1	707.7	1097.1	2094.7	2847.3	2599.6	2527.8	2066.4	2004.3
65°	438.4	440.7	451.5	486.1	653.3	1701.5	2983.0	3119.5	3032.7	2240.9	2161.5
67.5°	353.3	351.4	366.4	415.9	437.5	1038.1	2824.7	3611.3	3570.7	2474.2	2319.7
69°	311.5	308.9	324.2	381.7	410.9	686.2	2525.2	3723.0	3725.6	2597.3	2330.6
70°	280.3	282.0	297.2	361.4	401.9	538.6	2239.2	3694.6	3714.9	2643.3	2265.3
72.5°	187.2	191.8	222.3	300.1	386.4	407.6	1352.0	3170.4	3248.5	2539.7	1943.5
75°	105.6	109.0	145.2	226.3	364.1	388.2	714.1	2335.7	2411.2	2123.7	1498.7
77.5°	51.8	53.6	82.1	146.0	304.5	369.9	405.0	1586.6	1672.8	1386.2	847.7
80°	21.9	22.9	41.0	90.1	217.7	353.0	300.8	976.4	987.1	543.1	225.8
82.5°	8.4	8.7	17.3	56.2	138.3	275.2	251.6	463.0	451.8	102.3	51.5
85°	1.0	1.1	6.3	33.8	76.9	141.6	204.4	199.5	184.6	20.3	26.5
87.5°	0.0	0.0	0.4	10.3	22.9	66.4	106.3	82.8	74.7	6.6	13.7
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°	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1
2.5°	852.0	850.6	842.8	831.7	821.1	807.9	795.3	787.8	781.8	777.8	782.5
5°	854.3	848.0	824.5	794.5	765.0	731.8	701.0	674.8	664.5	653.0	658.2
7.5°	853.6	841.7	799.5	746.0	691.9	636.0	583.1	542.3	521.2	500.4	505.7
10°	850.0	830.0	766.0	686.8	605.8	525.5	450.4	393.3	361.4	332.5	336.7
12.5°	842.1	814.2	726.6	619.0	510.7	404.8	316.8	243.7	204.5	187.2	189.4
15°	837.4	798.9	684.8	550.4	409.2	281.9	193.7	144.0	126.1	120.4	121.1
17.5°	835.1	784.2	641.6	471.8	305.4	179.5	125.1	110.4	106.6	105.6	105.8
20°	832.8	769.3	597.1	394.2	210.4	120.7	102.8	98.5	97.1	95.8	96.1
22.5°	829.0	755.0	549.4	315.5	141.9	98.0	92.7	88.5	85.5	84.0	84.2
25°	824.2	740.0	500.6	235.0	103.5	87.4	82.4	76.5	72.9	70.1	70.2
27.5°	816.7	721.5	450.2	171.1	87.0	78.2	71.5	65.1	59.1	55.8	55.8
30°	806.1	700.7	394.3	122.4	77.9	69.2	61.1	53.1	46.6	43.6	43.3
32.5°	794.3	678.9	337.8	92.8	70.8	60.8	51.5	43.0	37.3	34.9	34.8
35°	784.3	655.5	281.5	77.8	63.6	52.6	42.5	35.3	30.7	28.7	28.6
37.5°	777.9	632.0	226.5	69.5	57.2	45.1	35.6	29.2	25.9	24.3	24.2
40°	776.9	614.6	176.3	63.2	51.2	38.3	29.7	24.7	21.7	20.0	19.9
42.5°	789.9	604.6	135.3	57.9	45.1	32.5	25.3	21.2	18.0	16.3	16.2
45°	824.1	607.7	104.1	53.2	38.9	27.5	21.5	17.6	14.7	13.4	13.2
47.5°	886.5	629.4	82.8	48.5	33.0	23.3	18.3	14.6	12.2	10.9	10.7
50°	997.4	680.5	69.2	43.3	27.6	19.9	15.2	11.9	9.9	8.7	8.6
52.5°	1144.8	771.5	61.8	38.3	22.9	16.9	12.4	9.4	7.7	6.9	6.7
55°	1307.2	881.6	56.9	32.9	18.7	14.0	9.9	7.4	6.0	5.3	5.0
57.5°	1465.8	977.0	52.3	27.6	15.6	11.4	7.9	5.9	4.7	4.0	3.9
60°	1611.6	1064.7	47.1	22.2	12.7	9.0	6.1	4.6	3.7	3.0	3.0
62.5°	1767.6	1132.5	39.8	17.3	10.4	6.9	5.0	4.1	3.0	2.6	2.4
65°	1933.0	1182.8	31.2	13.4	8.2	5.1	4.1	4.3	2.4	1.9	1.7
67.5°	2055.1	1172.8	23.0	10.6	6.3	4.0	4.0	4.6	2.1	1.4	1.3
69°	2028.2	1091.4	19.3	9.2	5.4	3.4	3.7	4.6	2.0	1.3	1.1
70°	1950.3	1001.3	17.0	8.2	4.9	3.1	3.6	4.4	1.9	1.3	1.1
72.5°	1624.2	754.2	13.3	6.1	3.9	2.6	3.0	3.9	1.9	1.3	1.0
75°	1221.7	482.7	10.2	4.4	2.9	2.0	2.3	2.9	1.9	1.1	1.0
77.5°	664.8	174.1	7.3	3.0	2.0	1.6	1.6	2.1	1.7	0.9	0.6
80°	170.9	43.8	4.6	2.0	1.6	1.1	1.0	1.4	1.0	0.1	0.0
82.5°	42.2	9.9	2.4	1.4	1.1	0.4	0.4	0.7	0.4	0.0	0.0
85°	23.2	4.9	1.6	1.0	0.6	0.0	0.0	0.1	0.0	0.0	0.0
87.5°	11.9	1.4	0.4	0.3	0.1	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)