

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: McGRAW-EDISON

Report Number: P382842

Luminaire Tested: **GLEON-SA2A-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6473.3 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

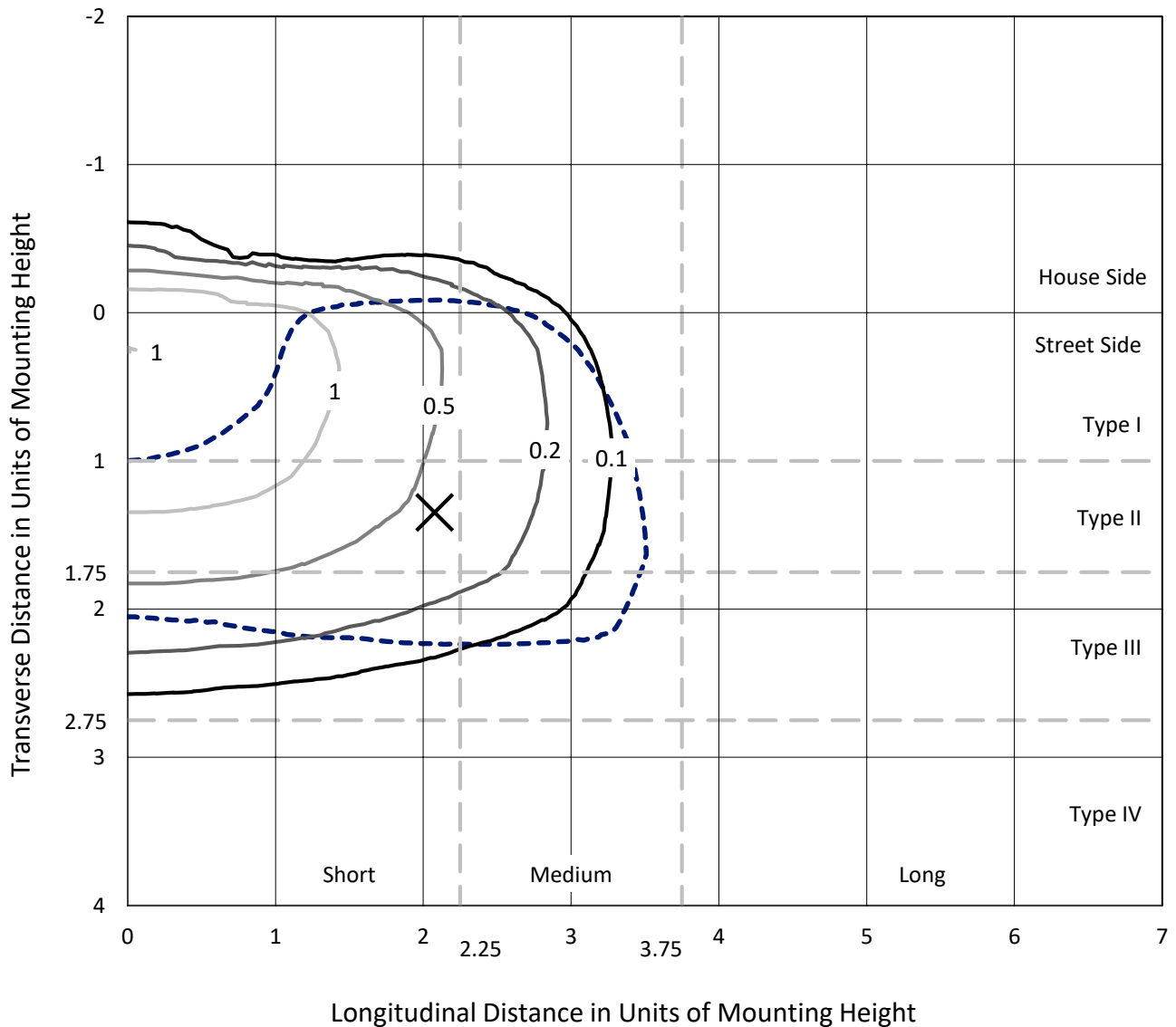
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

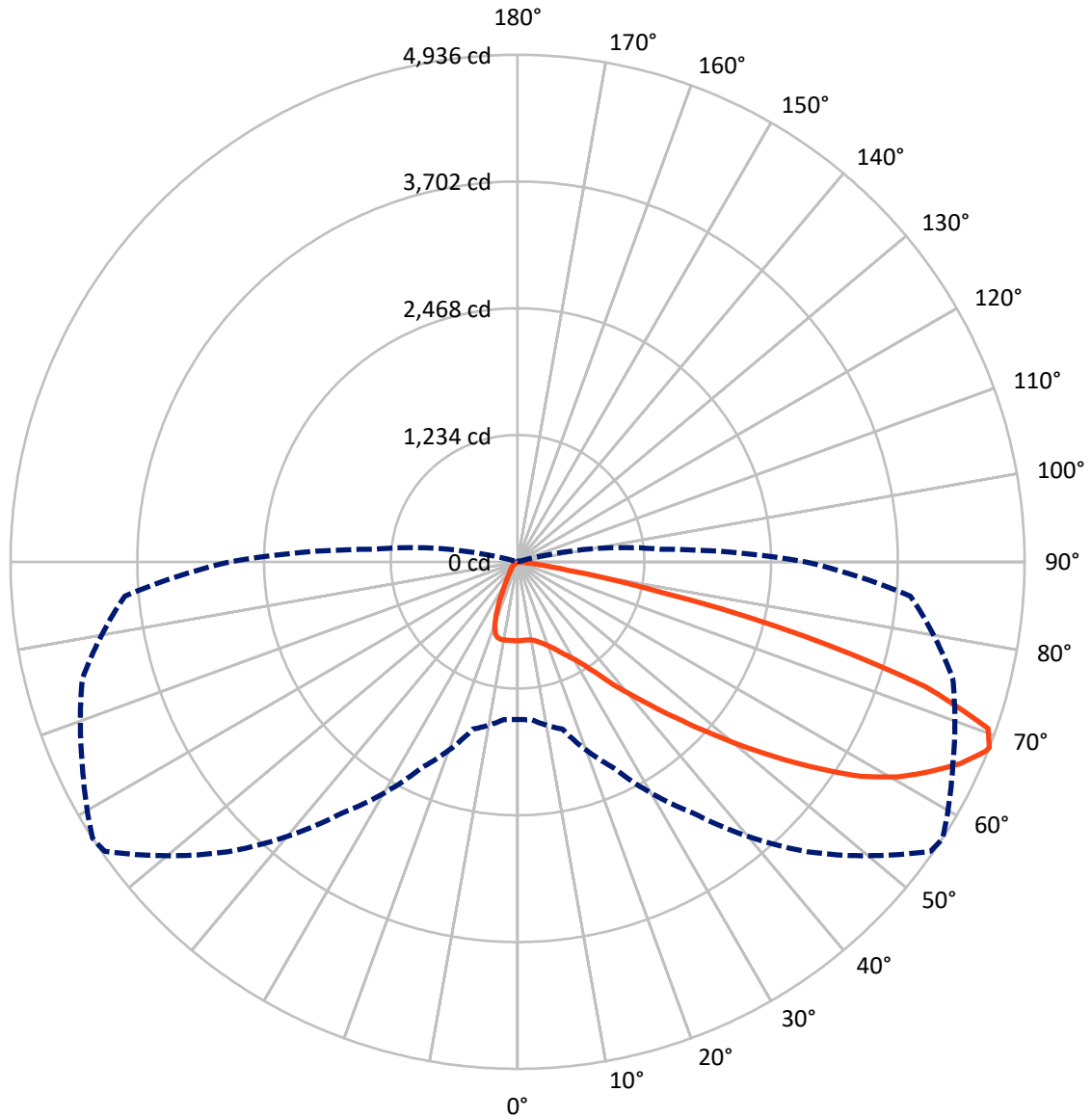
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	709.8	0.0	709.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	5763.5	0.0	5763.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	6473.3	0.0	6473.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	1.1
10°-20°	199.5	3.1
20°-30°	344.1	5.3
30°-40°	593.9	9.2
40°-50°	1015.9	15.7
50°-60°	1625.4	25.1
60°-70°	1878.0	29.0
70°-80°	717.6	11.1
80°-90°	26.9	0.4
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°	6473.3	100.0
0°-180°	6473.3	100.0

Coefficient of Utilization



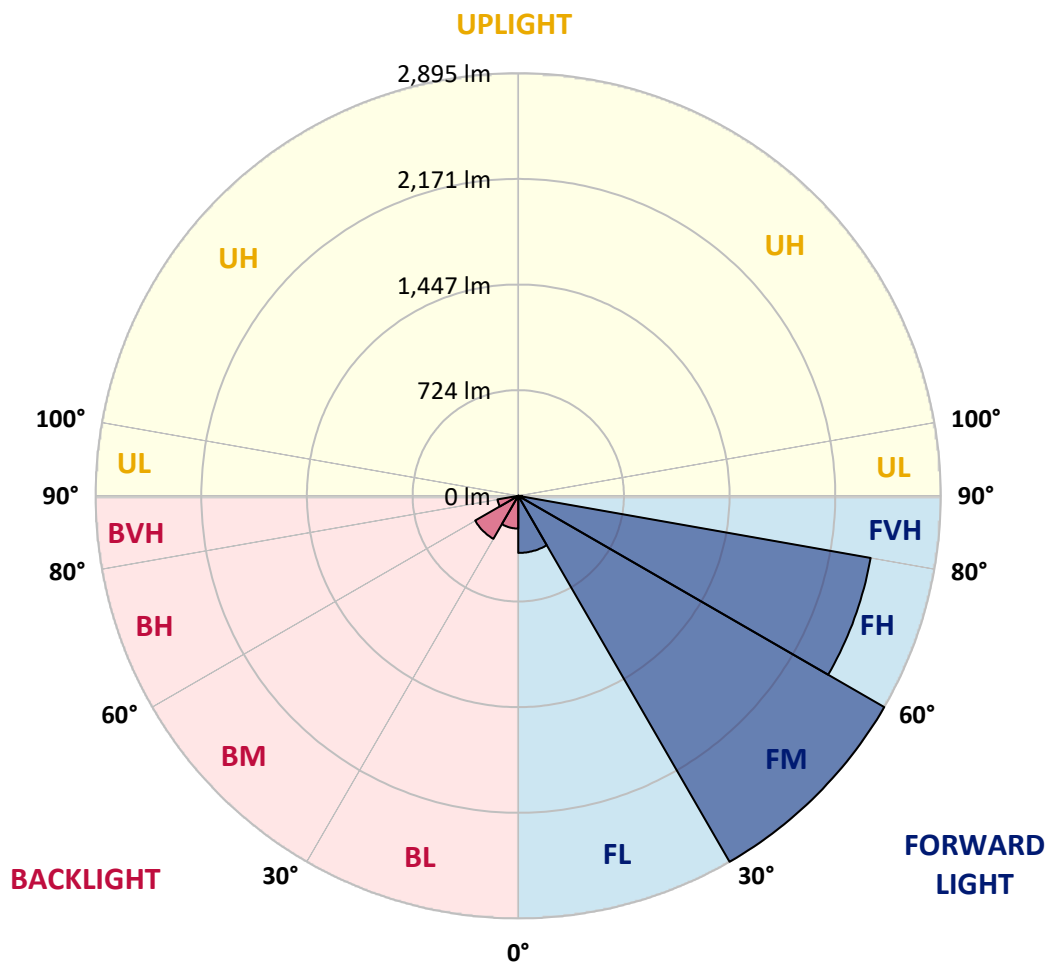
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.3	6.0			
FM (30°-60°)	2894.8	44.7			
FH (60°-80°)	2451.0	37.9			G2/5000
FVH (80°-90°)	26.4	0.4			G1/100
BL (0°-30°)	224.3	3.5	B1/500		
BM (30°-60°)	340.5	5.3	B1/1000		
BH (60°-80°)	144.6	2.2	B1/500		G1/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	769.2	769.2	769.2	769.2	769.2	769.2	769.2	769.2	769.2	769.2	769.2
2.5°	751.1	754.6	757.0	758.5	760.3	764.3	765.5	767.4	768.2	768.2	770.4
5°	721.5	725.1	730.3	734.6	743.2	754.2	762.2	765.3	770.8	775.6	778.4
7.5°	693.9	698.2	704.3	714.4	729.1	746.8	763.4	767.7	778.4	788.8	794.0
10°	676.1	679.6	687.5	701.8	721.1	746.0	769.2	774.4	792.7	810.3	820.0
12.5°	670.1	673.0	681.3	697.5	721.5	750.5	782.7	790.3	817.2	842.7	856.5
15°	678.9	679.6	688.4	703.7	727.3	761.8	805.0	814.2	848.2	881.2	898.4
17.5°	713.2	710.4	715.1	721.8	740.4	776.8	828.6	842.4	887.7	926.5	942.7
20°	798.9	798.9	788.5	770.1	770.4	800.1	860.4	876.0	931.5	976.4	991.1
22.5°	945.5	942.7	922.0	877.0	835.6	840.3	899.3	919.5	984.1	1032.2	1037.0
25°	1121.8	1118.4	1086.3	1022.9	951.3	905.1	951.9	975.2	1046.8	1089.4	1079.3
27.5°	1308.5	1305.8	1274.0	1195.3	1093.4	1008.6	1014.6	1036.7	1110.8	1152.7	1120.6
30°	1489.5	1490.4	1458.8	1378.0	1262.6	1140.5	1094.3	1107.1	1172.9	1215.5	1169.6
32.5°	1661.4	1662.7	1635.4	1545.2	1437.4	1293.8	1204.5	1201.1	1245.2	1287.1	1234.5
35°	1814.8	1817.8	1799.2	1729.1	1614.9	1464.7	1347.4	1339.5	1347.7	1395.2	1334.0
37.5°	1962.7	1964.4	1950.4	1891.3	1795.8	1652.3	1528.0	1516.7	1499.0	1535.4	1465.2
40°	2124.6	2120.0	2103.7	2050.1	1968.2	1859.5	1722.1	1702.5	1671.6	1704.0	1637.8
42.5°	2275.1	2270.0	2272.7	2212.1	2142.9	2072.5	1948.2	1914.6	1896.5	1933.9	1849.7
45°	2463.4	2460.7	2469.8	2417.2	2361.2	2310.1	2207.5	2170.8	2162.9	2206.6	2105.9
47.5°	2649.2	2655.9	2684.4	2662.1	2639.4	2594.5	2482.1	2465.5	2470.5	2523.4	2376.2
50°	2804.1	2812.1	2890.1	2915.8	2948.5	2922.3	2809.5	2799.5	2818.8	2866.6	2666.9
52.5°	2916.1	2932.3	3029.4	3147.8	3267.2	3284.9	3172.6	3163.4	3189.4	3196.8	2891.6
55°	2993.9	3008.2	3118.2	3334.8	3577.9	3654.4	3584.6	3549.1	3544.2	3471.7	3128.0
57.5°	3007.6	3006.1	3164.0	3455.8	3821.5	4019.0	3974.9	3940.0	3839.6	3725.7	3398.8
60°	2929.9	2938.8	3122.1	3497.7	3974.5	4294.7	4298.1	4252.8	4096.4	3972.8	3661.4
62.5°	2690.5	2726.6	2911.8	3387.8	3972.8	4405.8	4535.1	4500.4	4313.4	4175.0	3927.8
65°	2302.4	2315.3	2491.9	3011.3	3704.3	4359.4	4748.4	4735.5	4509.0	4371.6	4064.5
67.5°	1681.4	1653.5	1839.0	2371.3	3136.1	4088.1	4901.4	4917.6	4659.9	4412.0	3918.8
68°	1534.4	1542.6	1687.1	2213.0	2987.5	3992.3	4911.5	4936.3	4674.9	4385.6	3839.3
70°	914.6	930.5	1059.4	1523.7	2272.7	3450.3	4802.5	4859.1	4585.5	4114.2	3320.8
72.5°	233.5	252.5	374.4	682.0	1298.1	2431.0	4054.2	4150.0	3981.3	3337.5	2241.8
75°	96.1	101.0	133.8	224.7	483.7	1095.2	2672.1	2877.3	2760.0	1998.2	1013.2
77.5°	66.4	69.8	86.0	124.5	209.3	371.3	1310.0	1458.2	1313.8	682.0	221.0
80°	47.8	50.5	61.5	82.9	120.3	132.6	427.0	493.7	392.1	149.7	54.8
82.5°	28.5	30.6	45.9	59.1	73.1	63.3	106.2	120.6	113.6	74.3	24.5
85°	14.1	16.5	30.9	42.2	39.5	26.6	32.4	36.1	44.7	45.3	13.1
87.5°	0.9	1.9	18.1	25.4	11.0	6.1	9.5	11.6	15.9	22.4	5.5
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°	769.2	769.2	769.2	769.2	769.2	769.2	769.2	769.2	769.2	769.2	769.2
2.5°	771.3	771.7	769.6	768.6	769.2	765.5	764.0	764.6	764.6	765.5	764.0
5°	779.0	779.0	775.3	770.4	767.7	760.6	756.0	754.8	753.9	753.2	752.0
7.5°	795.5	793.7	787.3	776.5	767.4	752.0	740.4	734.3	731.3	730.1	729.1
10°	822.2	818.8	808.1	788.2	767.0	739.8	714.4	696.3	681.3	675.2	671.6
12.5°	858.0	853.1	835.0	802.0	764.9	714.7	659.6	606.6	557.3	537.2	527.1
15°	899.3	892.2	863.8	813.6	752.4	658.0	538.4	445.7	377.4	351.7	340.7
17.5°	941.2	932.0	888.9	821.0	714.7	540.9	377.7	285.2	239.7	227.4	223.1
20°	983.4	970.0	910.6	815.4	629.6	389.9	249.2	208.5	195.3	191.6	190.4
22.5°	1023.6	1002.7	930.2	794.0	498.7	261.7	197.1	184.3	180.0	177.8	177.2
25°	1058.4	1029.4	947.4	727.9	353.0	197.8	177.6	173.3	167.8	163.8	164.0
27.5°	1091.2	1056.0	957.7	618.9	235.4	169.0	164.3	158.5	148.5	142.6	142.6
30°	1130.7	1091.5	965.4	476.3	173.3	149.3	145.7	136.8	123.1	115.4	115.4
32.5°	1190.1	1145.4	960.5	334.2	143.6	131.3	122.8	110.5	95.5	88.1	87.8
35°	1281.0	1228.6	925.6	219.2	126.7	114.2	100.4	85.4	72.2	66.1	65.8
37.5°	1403.4	1340.0	847.2	156.7	113.6	98.3	81.7	65.2	55.4	51.4	51.1
40°	1562.3	1469.5	735.3	127.1	101.4	82.9	63.1	50.5	43.8	40.7	41.0
42.5°	1753.0	1608.2	600.8	109.5	89.3	68.3	49.3	39.8	35.5	33.3	32.8
45°	1964.8	1745.0	460.1	97.6	77.4	55.1	38.6	31.5	28.1	26.9	26.9
47.5°	2197.7	1878.2	336.7	87.2	64.6	42.6	30.9	25.7	22.9	22.1	21.7
50°	2409.3	1970.6	242.8	76.2	52.9	33.6	25.1	21.4	19.6	18.4	18.4
52.5°	2585.5	1999.7	178.8	64.3	42.9	26.9	20.8	18.4	16.5	15.6	15.6
55°	2740.7	1987.7	132.8	52.9	34.6	22.1	17.8	15.6	14.1	13.1	13.1
57.5°	2889.5	1949.2	99.2	43.1	27.9	17.8	15.0	13.1	11.6	11.0	11.0
60°	3011.0	1884.9	73.8	34.9	22.4	14.3	12.6	10.7	9.5	8.6	8.6
62.5°	3109.6	1813.9	54.2	28.8	17.8	11.4	9.8	8.8	7.1	6.1	6.1
65°	3110.2	1696.1	40.7	23.8	13.8	8.8	7.4	7.1	4.6	3.6	3.4
67.5°	2885.2	1462.2	31.2	20.5	10.7	6.7	5.5	5.8	2.4	1.5	1.2
68°	2803.5	1402.8	29.3	20.2	10.1	6.4	5.2	5.8	2.1	1.2	0.9
70°	2363.6	1116.0	23.6	19.6	8.8	4.9	4.3	5.8	1.9	0.9	0.7
72.5°	1511.8	647.7	17.4	15.6	6.7	3.6	2.8	5.2	1.9	0.7	0.3
75°	643.4	200.7	11.9	11.0	4.0	2.8	1.9	3.4	1.2	0.3	0.0
77.5°	135.6	45.3	7.1	6.7	2.8	1.9	1.2	0.9	0.3	0.0	0.0
80°	34.9	13.1	3.6	3.4	1.5	0.9	0.7	0.0	0.0	0.0	0.0
82.5°	11.0	5.2	2.1	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	3.1	1.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.9	0.3	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)