

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: P383006

Luminaire Tested: **GLEON-SA3C-735-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383006  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3C-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14310.4 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

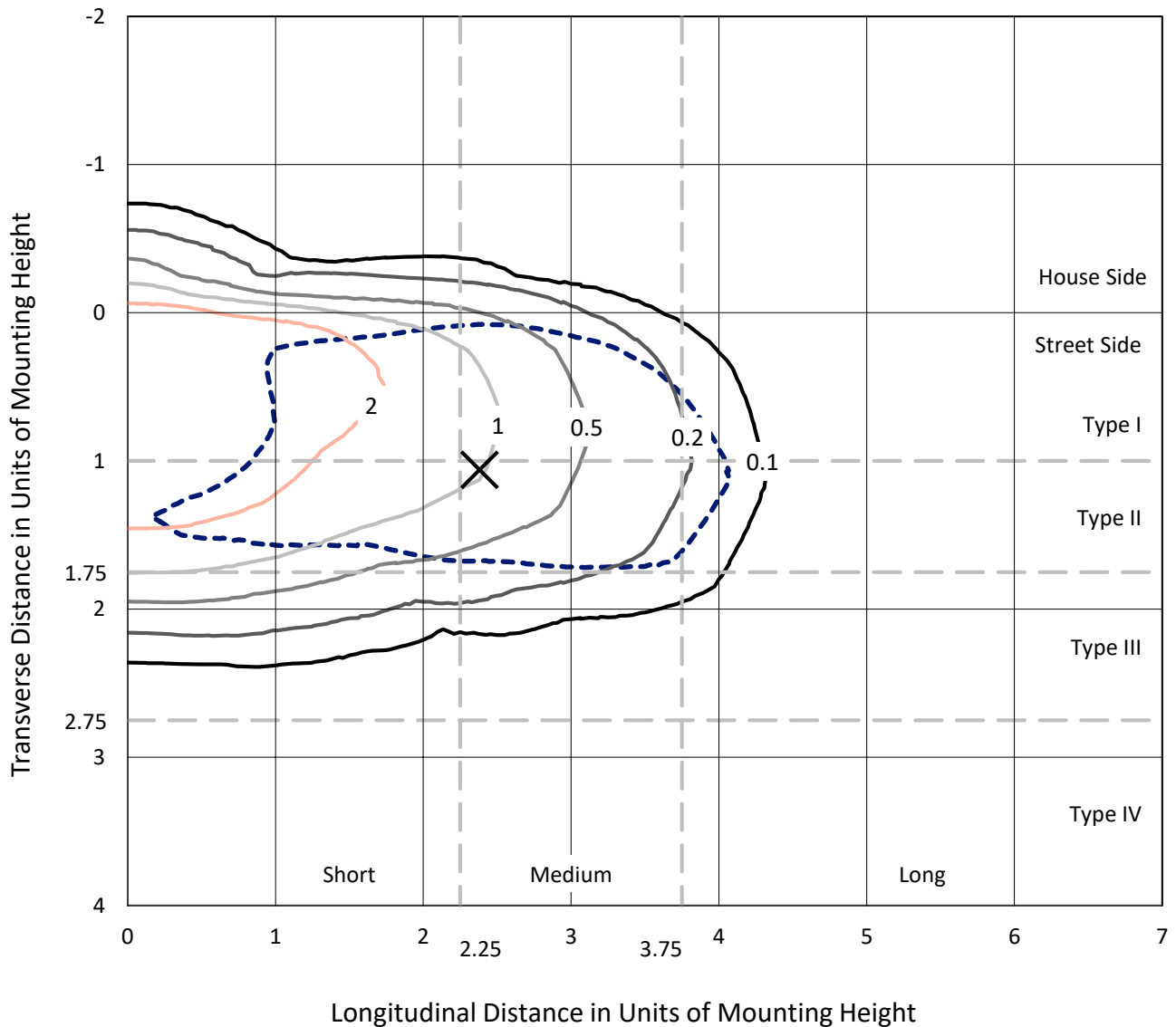
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

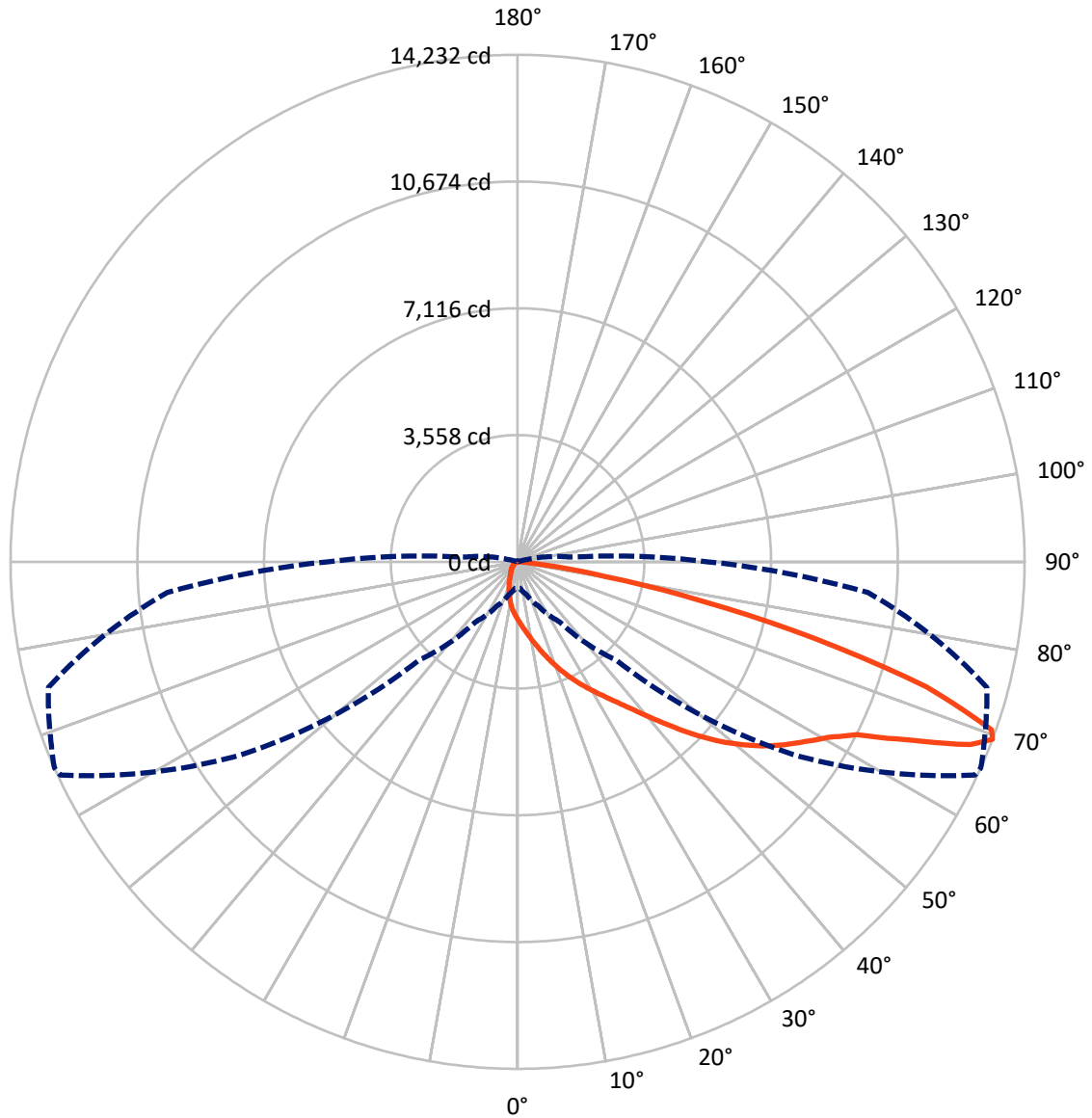
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	858.4	0.0	858.4
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	13452.0	0.0	13452.0
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	14310.4	0.0	14310.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.4	1.1
10°-20°	468.5	3.3
20°-30°	815.9	5.7
30°-40°	1431.4	10.0
40°-50°	2396.0	16.7
50°-60°	3521.9	24.6
60°-70°	3616.1	25.3
70°-80°	1785.2	12.5
80°-90°	118.0	0.8
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°	14310.4	100.0
0°-180°	14310.4	100.0

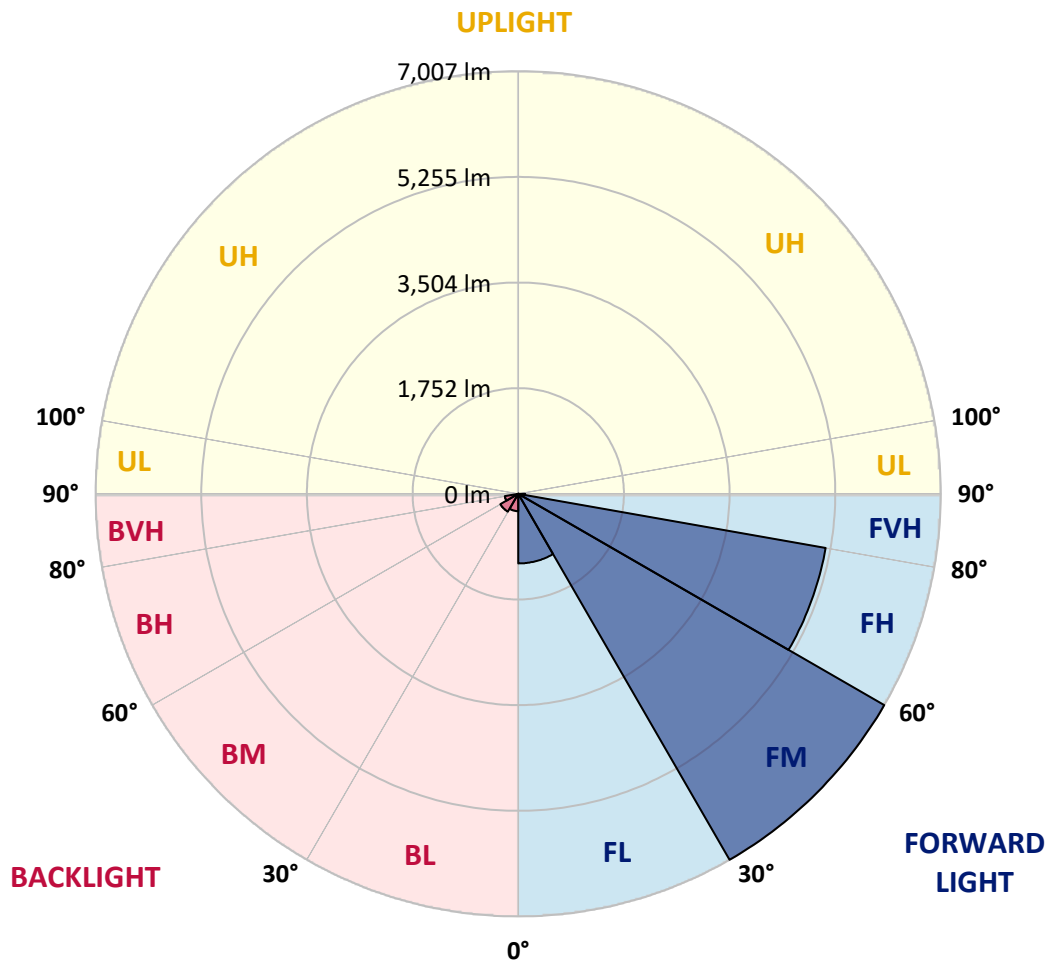


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.7	8.1			
FM (30°-60°)	7007.1	49.0			
FH (60°-80°)	5175.0	36.2			G3/7500
FVH (80°-90°)	115.2	0.8			G2/225
BL (0°-30°)	287.1	2.0	B1/500		
BM (30°-60°)	342.3	2.4	B1/1000		
BH (60°-80°)	226.2	1.6	B1/500		G1/500
BVH (80°-90°)	2.9	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-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5
2.5°	1916.8	1908.6	1905.2	1890.3	1864.4	1844.7	1806.6	1762.5	1754.3	1711.5	1659.2
5°	2165.6	2158.8	2154.0	2132.9	2106.4	2056.8	1987.5	1905.2	1889.6	1808.0	1703.3
7.5°	2338.8	2351.1	2351.1	2337.5	2304.2	2266.8	2181.9	2069.7	2050.0	1924.9	1762.5
10°	2440.1	2455.1	2466.6	2478.2	2473.4	2458.4	2378.3	2251.8	2228.1	2062.3	1831.1
12.5°	2449.7	2464.6	2497.2	2545.5	2592.4	2626.4	2576.1	2453.7	2426.6	2221.3	1912.7
15°	2396.7	2412.2	2462.5	2556.4	2669.9	2769.1	2785.4	2677.4	2649.5	2410.9	2014.7
17.5°	2304.2	2314.4	2386.4	2516.3	2694.3	2876.5	2975.1	2917.3	2891.4	2627.7	2128.1
20°	2235.5	2243.0	2306.2	2445.6	2679.4	2943.8	3154.5	3172.2	3145.0	2860.2	2251.2
22.5°	2353.2	2366.7	2368.7	2434.7	2638.6	2977.1	3312.2	3423.0	3402.6	3106.9	2372.2
25°	2674.7	2690.3	2638.6	2597.8	2673.3	2992.0	3447.5	3679.9	3663.6	3372.7	2493.8
27.5°	3099.4	3115.7	3049.1	2927.5	2854.7	3048.5	3567.7	3940.9	3940.3	3654.1	2625.0
30°	3516.8	3533.1	3465.2	3343.5	3176.3	3208.2	3671.8	4214.1	4218.2	3944.4	2764.4
32.5°	3954.5	3974.9	3904.9	3748.5	3573.9	3484.2	3817.9	4488.8	4511.9	4280.7	2921.3
35°	4452.1	4454.8	4356.2	4192.4	3991.2	3853.3	4052.4	4796.7	4851.8	4697.4	3120.5
37.5°	4940.1	4959.8	4878.9	4620.7	4435.8	4279.4	4401.1	5181.4	5259.5	5206.5	3380.9
40°	5301.7	5343.2	5331.6	5052.9	4877.6	4766.1	4834.1	5638.8	5738.1	5799.3	3709.1
42.5°	5528.7	5559.9	5613.0	5445.1	5286.1	5304.4	5345.2	6171.7	6294.1	6474.9	4086.4
45°	5789.0	5804.0	5848.2	5774.1	5666.7	5851.6	5887.6	6771.9	6900.3	7201.5	4505.1
47.5°	6107.1	6142.5	6154.7	6086.7	6037.8	6335.5	6410.3	7317.7	7497.8	7979.7	4948.3
50°	6512.3	6521.8	6542.8	6498.7	6449.8	6751.5	6879.3	7890.7	8054.5	8760.7	5385.3
52.5°	6908.5	6942.5	7016.0	6988.0	6968.3	7105.7	7297.3	8407.3	8590.1	9411.9	5821.7
55°	7022.8	7051.9	7305.5	7478.8	7639.2	7542.0	7697.0	8870.2	9068.0	9993.7	6241.7
57.5°	6566.7	6625.7	7064.9	7516.2	8181.6	8220.3	8246.2	9345.3	9522.7	10439.6	6678.8
60°	5413.9	5425.4	6145.9	6920.1	8091.9	8812.3	9048.2	9855.7	10004.5	10854.9	7202.2
62.5°	3443.4	3560.9	4351.4	5444.4	7143.0	8726.7	10018.1	10627.8	10682.2	11353.1	7952.5
65°	1640.1	1716.3	2285.8	3363.8	5173.9	7630.4	10687.6	12024.7	12049.1	12340.8	8955.2
67.5°	908.1	944.8	1215.9	1810.7	3024.6	5396.2	10417.1	13679.0	13702.1	13349.4	9834.6
69°	710.3	741.5	955.0	1364.8	2050.7	3878.4	9426.8	14163.7	14232.4	13638.3	9865.9
70°	602.9	633.5	822.5	1152.8	1648.9	2996.8	8390.9	14043.4	14116.1	13611.1	9632.8
72.5°	369.1	386.8	547.8	811.6	1105.2	1507.6	5174.6	11876.5	11999.5	12485.5	8278.8
75°	248.8	258.3	342.5	560.0	790.5	776.3	2688.3	8371.3	8637.7	9712.3	6114.6
77.5°	178.1	187.0	229.7	362.3	554.0	512.5	1217.3	5202.5	5259.5	5825.1	3334.7
80°	101.3	109.5	162.5	215.5	375.9	341.9	483.9	2485.0	2513.6	2497.9	1113.4
82.5°	53.0	59.8	89.1	142.1	241.3	223.7	201.2	832.0	836.1	695.3	244.0
85°	10.2	12.2	44.2	97.2	124.4	97.2	82.3	195.1	199.2	176.1	60.5
87.5°	0.0	0.7	17.7	21.7	24.5	25.2	26.5	38.1	40.8	55.1	16.3
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°	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5
2.5°	1636.1	1611.6	1564.7	1510.3	1468.1	1426.7	1394.1	1360.1	1347.9	1341.7	1341.1
5°	1652.4	1600.7	1501.5	1399.6	1315.9	1237.1	1180.6	1127.0	1101.8	1090.3	1085.5
7.5°	1679.6	1596.7	1436.9	1281.3	1160.9	1062.3	984.2	925.8	896.5	884.3	879.6
10°	1711.5	1591.2	1361.5	1156.1	1002.5	900.6	823.1	765.4	733.4	719.8	713.0
12.5°	1748.9	1581.7	1274.5	1029.7	867.3	765.4	671.6	600.2	563.5	547.8	540.4
15°	1795.1	1572.2	1183.3	910.8	748.3	624.0	521.3	473.0	465.6	462.9	463.5
17.5°	1840.6	1557.2	1084.1	793.2	623.3	487.4	435.0	432.3	433.6	433.6	433.6
20°	1881.4	1523.2	976.1	692.6	504.3	411.2	400.4	395.6	392.2	389.5	386.0
22.5°	1913.4	1477.7	872.0	592.7	411.9	376.5	359.6	344.6	332.4	324.2	320.2
25°	1935.1	1417.2	776.9	496.9	370.5	342.5	312.0	286.8	267.8	256.3	251.5
27.5°	1951.4	1352.0	692.0	415.9	341.9	303.1	263.1	233.2	213.4	203.3	199.2
30°	1963.0	1277.8	617.2	365.7	309.9	261.7	218.8	189.7	175.4	169.9	167.2
32.5°	1973.9	1195.6	546.4	341.9	280.0	223.7	183.5	161.1	152.2	145.4	143.5
35°	2001.1	1119.4	479.2	316.7	249.5	191.0	157.7	141.4	132.6	128.5	127.1
37.5°	2065.6	1063.1	414.6	290.9	218.8	165.2	138.0	126.4	118.3	114.2	112.8
40°	2169.6	1034.5	360.2	263.1	188.9	145.4	125.1	114.2	105.4	99.2	97.9
42.5°	2322.5	1038.6	322.2	235.2	165.2	129.9	112.8	100.0	90.4	85.0	83.6
45°	2508.1	1068.5	295.7	208.0	145.4	117.6	99.2	85.6	76.9	72.0	70.7
47.5°	2709.3	1116.7	273.9	183.5	129.9	106.0	85.6	71.4	63.9	59.8	59.2
50°	2921.3	1163.7	251.5	159.8	116.3	94.5	72.0	59.2	53.0	49.7	48.3
52.5°	3136.1	1218.0	231.1	138.0	104.7	80.9	59.8	48.3	43.5	40.8	39.4
55°	3367.3	1258.8	211.4	121.0	93.2	68.7	49.7	40.1	36.1	32.6	32.0
57.5°	3639.2	1322.1	191.0	104.7	79.6	57.1	40.8	32.0	28.5	25.2	24.5
60°	4006.2	1396.1	169.3	92.4	65.2	46.9	33.3	25.8	21.7	19.0	18.4
62.5°	4490.2	1478.4	142.1	80.9	53.0	38.1	26.5	20.4	15.6	12.2	12.2
65°	5103.9	1612.2	116.3	68.0	43.5	31.3	20.4	15.0	8.8	5.4	5.4
67.5°	5462.1	1635.3	93.8	55.7	35.3	26.5	17.0	10.2	2.7	0.7	0.0
69°	5347.3	1501.5	79.6	47.6	30.6	25.2	15.6	7.5	1.4	0.0	0.0
70°	5131.1	1373.0	70.1	42.1	27.9	23.8	15.0	5.4	1.4	0.0	0.0
72.5°	4240.0	977.4	53.0	31.3	20.4	21.1	13.6	3.4	1.4	0.0	0.0
75°	3088.5	594.0	38.1	21.7	12.9	15.6	9.5	1.4	0.7	0.0	0.0
77.5°	1718.3	280.0	23.8	12.2	8.2	9.5	4.8	0.0	0.0	0.0	0.0
80°	558.0	76.1	10.9	6.8	4.8	5.4	2.0	0.0	0.0	0.0	0.0
82.5°	103.3	21.7	6.1	3.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
85°	22.5	8.8	3.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	2.7	0.7	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)