

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: P383698

Luminaire Tested: **GLEON-SA9D-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9D-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55204.5 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

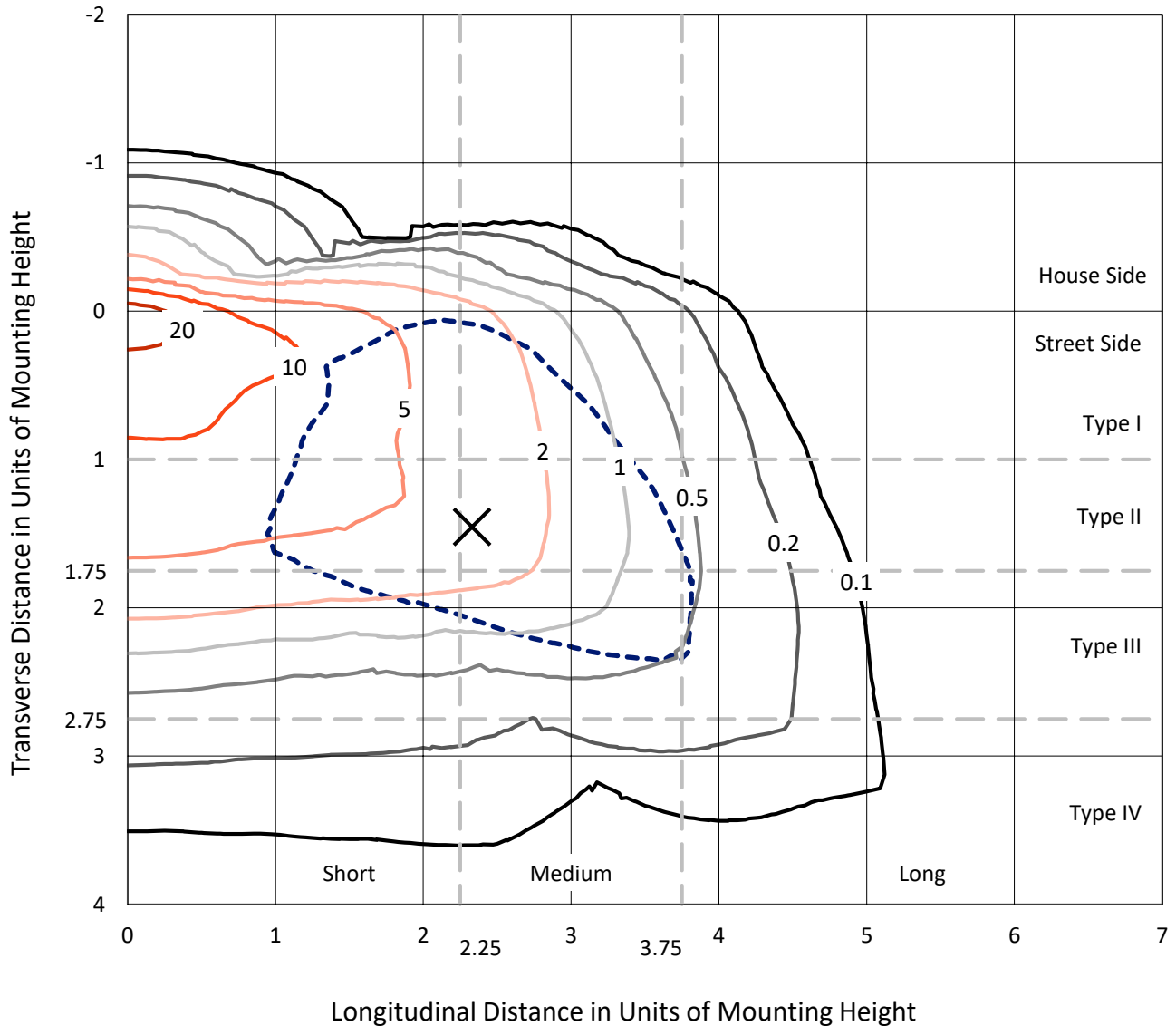
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

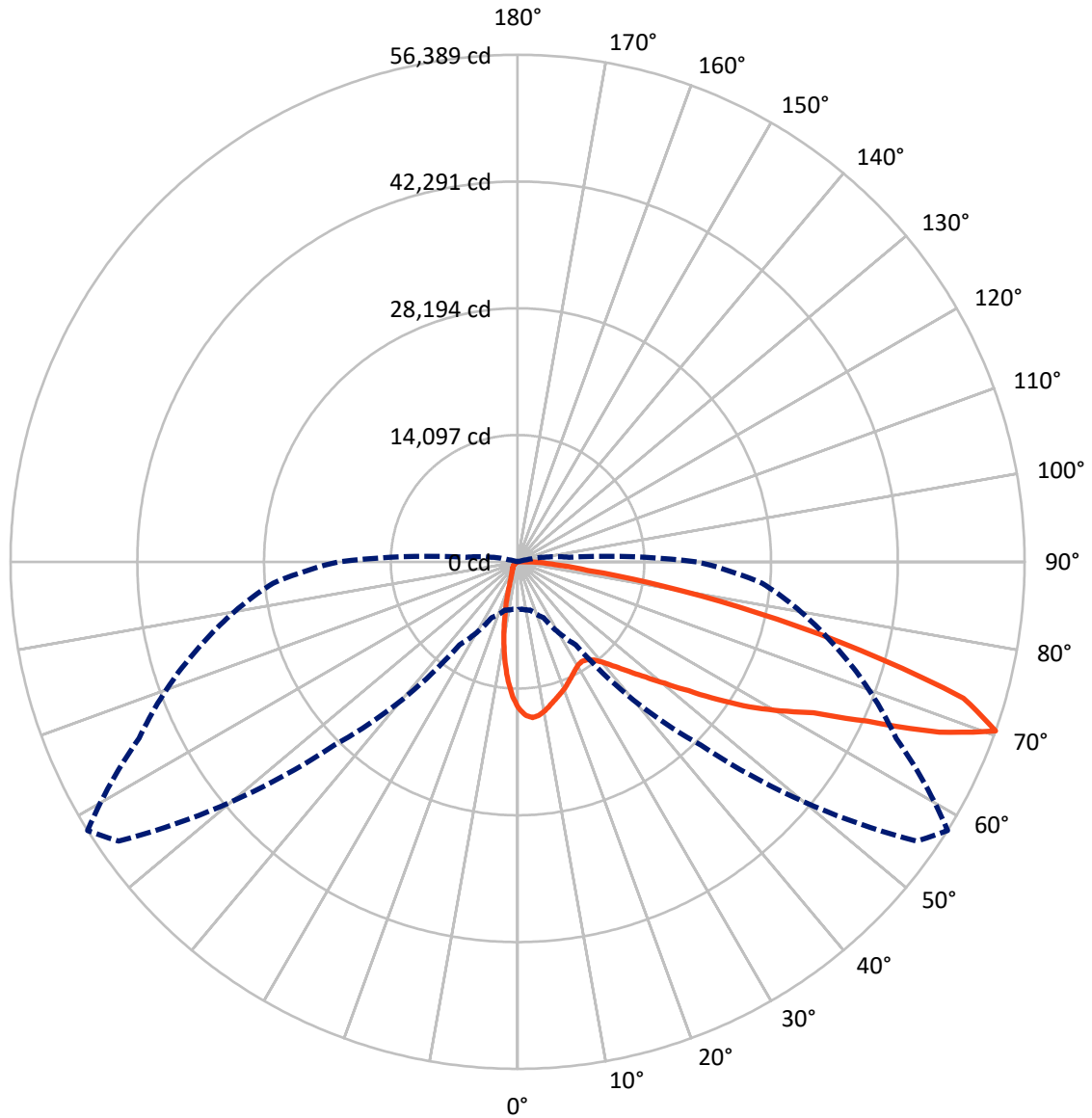
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4724.3	0.0	4724.3
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	50480.2	0.0	50480.2
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	55204.5	0.0	55204.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1333.5	2.4
10°-20°	2798.7	5.1
20°-30°	3679.3	6.7
30°-40°	4872.9	8.8
40°-50°	7283.5	13.2
50°-60°	11667.8	21.1
60°-70°	14707.2	26.6
70°-80°	7933.0	14.4
80°-90°	928.6	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°	55204.5	100.0
0°-180°	55204.5	100.0

**Coefficient of Utilization**

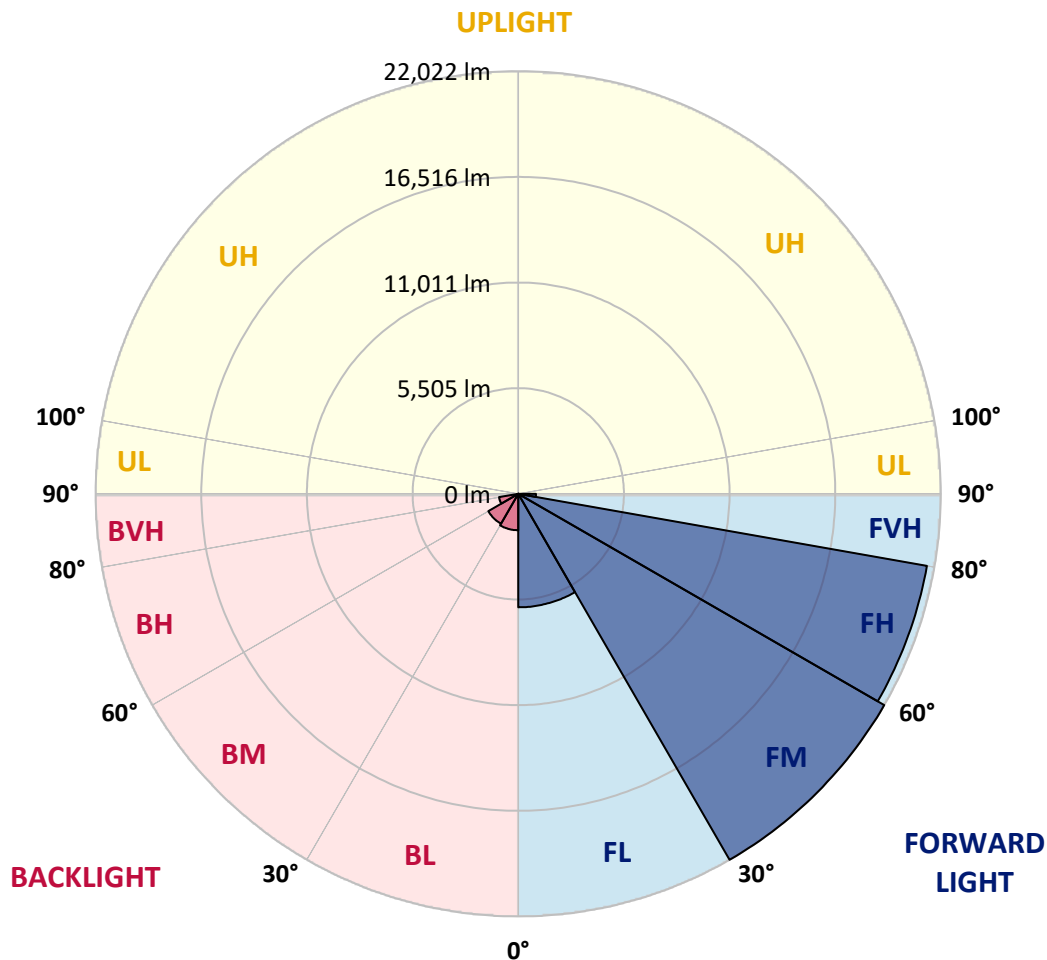


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5913.5	10.7			
FM (30°-60°)	22021.9	39.9			
FH (60°-80°)	21624.2	39.2			G5
FVH (80°-90°)	920.6	1.7			G5
BL (0°-30°)	1898.0	3.4	B3/2500		
BM (30°-60°)	1802.3	3.3	B2/2500		
BH (60°-80°)	1016.0	1.8	B3/2500		G3/2500
BVH (80°-90°)	8.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	16307.1	16307.1	16307.1	16307.1	16307.1	16307.1	16307.1	16307.1	16307.1	16307.1	16307.1
2.5°	17659.2	17615.6	17599.4	17572.0	17466.3	17363.0	17158.7	17101.4	16972.8	16667.5	16343.8
5°	17672.9	17670.6	17718.9	17707.4	17670.6	17622.5	17475.6	17399.8	17181.7	16745.6	16153.3
7.5°	16821.3	16864.9	16972.8	17060.1	17161.1	17291.9	17310.3	17236.8	17057.8	16587.1	15802.1
10°	15678.1	15747.1	15898.5	16070.7	16334.7	16596.4	16830.5	16821.3	16759.4	16295.7	15379.8
12.5°	14532.7	14613.1	14787.5	15042.4	15416.5	15843.5	16261.2	16318.6	16421.9	16034.0	14989.5
15°	13529.6	13598.5	13770.6	14082.8	14546.5	15120.3	15733.3	15838.8	16105.2	15829.7	14663.6
17.5°	12678.0	12721.6	12847.8	13194.4	13731.6	14427.2	15223.6	15430.2	15827.4	15669.0	14381.2
20°	12083.5	12090.4	12173.0	12416.3	12953.4	13731.6	14695.7	14991.9	15533.6	15531.2	14089.7
22.5°	11789.6	11766.7	11782.8	11922.8	12317.6	13068.2	14167.7	14518.9	15269.6	15414.2	13793.6
25°	11734.5	11716.2	11670.2	11688.6	11927.3	12487.5	13635.2	14041.5	15037.7	15343.1	13536.5
27.5°	11906.7	11925.0	11847.0	11764.3	11782.8	12111.0	13162.3	13632.9	14849.5	15343.1	13355.1
30°	12253.3	12262.5	12205.1	12097.2	11952.6	12005.4	12834.0	13304.6	14755.3	15448.6	13240.4
32.5°	12636.6	12687.1	12680.2	12593.0	12386.4	12173.0	12756.1	13185.3	14748.5	15682.8	13228.9
35°	13111.8	13169.2	13265.6	13247.3	13031.5	12680.2	13022.3	13359.7	14883.9	16068.4	13352.8
37.5°	13616.8	13704.1	13910.6	14009.4	13869.3	13472.2	13619.1	13860.1	15246.6	16692.8	13667.3
40°	14105.8	14204.4	14581.0	14968.9	14863.3	14454.6	14523.6	14716.4	15891.6	17590.3	14264.1
42.5°	14585.5	14732.4	15285.7	15923.8	16050.0	15724.1	15760.8	15914.6	16848.9	18825.3	15239.7
45°	15159.4	15324.7	16144.2	16931.5	17268.9	17126.6	17282.7	17383.7	18099.9	20457.3	16555.0
47.5°	16001.8	16192.3	17197.8	18095.3	18687.6	18779.3	19093.8	19160.4	19681.5	22358.1	18269.8
50°	17645.4	17698.2	18607.2	19422.1	20276.1	20827.0	21185.1	21235.6	21596.0	24435.4	20411.4
52.5°	19713.6	19748.1	20262.3	20808.5	21779.6	22904.3	23742.2	23813.3	23889.2	26460.1	22525.6
55°	21768.1	21763.5	22103.2	22424.6	23535.6	25170.0	26988.1	27031.6	26487.6	28381.4	24141.6
57.5°	23051.2	23175.2	23691.7	24104.9	25656.7	27752.4	30275.2	30435.8	29217.0	29804.6	25739.3
60°	22642.7	22702.4	23847.8	25376.6	28298.7	31422.9	33601.3	33642.7	31269.1	31225.5	27759.3
62.5°	19291.2	19323.4	21123.0	24274.7	29637.0	36183.7	37613.8	36941.3	33628.9	33197.3	30176.5
65°	13222.0	13430.9	14934.4	18829.8	27178.6	39170.2	43825.4	42712.1	37225.9	36039.2	32361.8
67.5°	7786.2	7742.7	8486.4	11355.8	19961.6	37186.9	51682.8	50576.4	42131.4	37942.1	31721.3
70°	5318.7	5288.8	5573.4	6875.0	11268.6	28847.3	54155.1	56388.6	46462.9	36661.2	27300.2
72.5°	3796.7	3812.8	4232.9	5341.6	7074.7	16807.5	46570.9	51857.3	45106.3	31960.1	20751.2
75°	2577.9	2621.5	3222.9	4382.1	6202.4	8550.7	33048.1	39420.4	36730.1	23228.0	11927.3
77.5°	1386.5	1434.7	2144.0	3530.5	5607.9	5940.8	21258.5	27130.4	23071.9	10442.2	3457.0
80°	578.5	606.0	1003.1	2566.3	4845.7	5217.6	12508.1	16451.8	9831.6	2059.1	771.3
82.5°	250.2	264.0	417.8	1531.1	3622.3	4405.0	6622.5	7914.8	2979.6	452.2	387.9
85°	48.2	50.5	172.1	810.3	2311.5	2486.0	4292.6	4207.6	1338.3	195.2	282.4
87.5°	0.0	0.0	41.4	254.8	679.5	1354.4	2619.1	2587.0	454.5	94.1	105.6
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°	16307.1	16307.1	16307.1	16307.1	16307.1	16307.1	16307.1	16307.1	16307.1	16307.1	16307.1
2.5°	16178.6	16020.2	15687.4	15276.4	14962.0	14615.3	14339.9	13991.0	13839.4	13846.3	13763.7
5°	15815.9	15490.0	14753.1	13823.4	13107.2	12368.1	11732.2	11098.6	10724.5	10602.9	10488.1
7.5°	15297.1	14780.7	13605.3	12173.0	10961.0	9776.5	8745.8	7839.1	7265.2	6985.2	6881.9
10°	14711.7	13986.3	12285.4	10398.6	8667.8	7065.5	5729.6	4568.0	4104.3	3789.8	3709.5
12.5°	14197.6	13215.1	10995.3	8578.2	6523.8	4590.9	3317.0	2593.9	2279.4	2155.4	2134.8
15°	13713.2	12494.3	9753.5	6930.1	4517.5	2825.8	2109.6	1863.9	1790.4	1769.8	1769.8
17.5°	13256.4	11808.0	8539.2	5307.1	2988.7	1981.0	1746.8	1691.8	1668.8	1666.5	1668.8
20°	12779.0	11121.7	7345.5	3888.6	2086.6	1678.0	1613.7	1583.9	1577.0	1577.0	1577.0
22.5°	12322.1	10435.3	6184.1	2777.5	1673.4	1531.1	1499.0	1478.3	1471.4	1469.1	1464.5
25°	11883.8	9783.4	5050.1	1962.7	1469.1	1402.5	1375.0	1347.5	1326.8	1315.3	1308.5
27.5°	11523.3	9202.6	3994.1	1574.7	1326.8	1269.4	1235.0	1193.7	1143.2	1120.2	1111.1
30°	11236.4	8672.3	3078.2	1329.1	1193.7	1136.3	1083.5	1012.3	938.8	899.9	897.5
32.5°	11011.5	8151.2	2336.8	1175.3	1074.3	1003.1	927.4	837.8	752.9	709.3	707.0
35°	10901.2	7692.2	1785.9	1062.8	968.7	879.2	785.0	686.4	603.7	562.4	557.8
37.5°	10974.7	7304.3	1393.3	968.7	879.2	775.9	665.7	562.4	489.0	452.2	449.9
40°	11243.3	7056.3	1131.6	888.3	803.5	677.1	557.8	461.4	399.4	369.5	367.3
42.5°	11814.9	6964.5	966.4	821.8	730.0	585.4	463.7	381.1	323.6	303.0	298.4
45°	12769.7	7100.0	853.9	757.5	654.2	498.1	383.3	312.2	261.7	245.6	243.3
47.5°	14041.5	7455.7	773.6	695.5	585.4	420.0	319.1	252.5	213.5	197.4	195.2
50°	15680.5	8020.4	707.0	633.5	521.1	355.8	264.0	199.7	165.3	153.8	153.8
52.5°	17464.1	8693.0	647.3	576.2	456.8	296.1	213.5	153.8	130.9	117.1	117.1
55°	18937.8	9280.6	583.1	532.6	378.8	245.6	163.0	117.1	96.4	89.5	89.5
57.5°	20409.2	9907.3	509.6	456.8	303.0	199.7	124.0	87.2	71.2	66.6	66.6
60°	22316.7	10674.0	438.5	371.9	238.8	151.5	91.9	61.9	52.8	50.5	50.5
62.5°	24414.7	11123.9	374.2	298.4	185.9	112.4	66.6	41.4	39.0	39.0	36.7
65°	25698.0	10488.1	314.5	238.8	144.6	85.0	43.6	29.8	34.5	32.1	27.6
67.5°	24061.3	8210.9	257.1	185.9	112.4	64.3	27.6	20.7	36.7	29.8	22.9
70°	19922.5	5747.9	199.7	130.9	89.5	55.1	18.4	13.8	39.0	29.8	18.4
72.5°	14909.1	3847.2	158.4	87.2	66.6	48.2	16.0	6.9	34.5	25.2	16.0
75°	8146.7	1549.4	126.2	55.1	41.4	34.5	11.5	4.6	22.9	18.4	11.5
77.5°	2144.0	408.6	91.9	36.7	22.9	13.8	6.9	2.3	11.5	9.2	4.6
80°	546.4	158.4	59.7	25.2	16.0	6.9	0.0	0.0	2.3	0.0	0.0
82.5°	291.5	66.6	36.7	18.4	9.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	220.4	43.6	20.7	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	85.0	13.8	6.9	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)