

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: P382690

Luminaire Tested: **GLEON-SA0D-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382690  
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-SA0D-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 61118.8 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

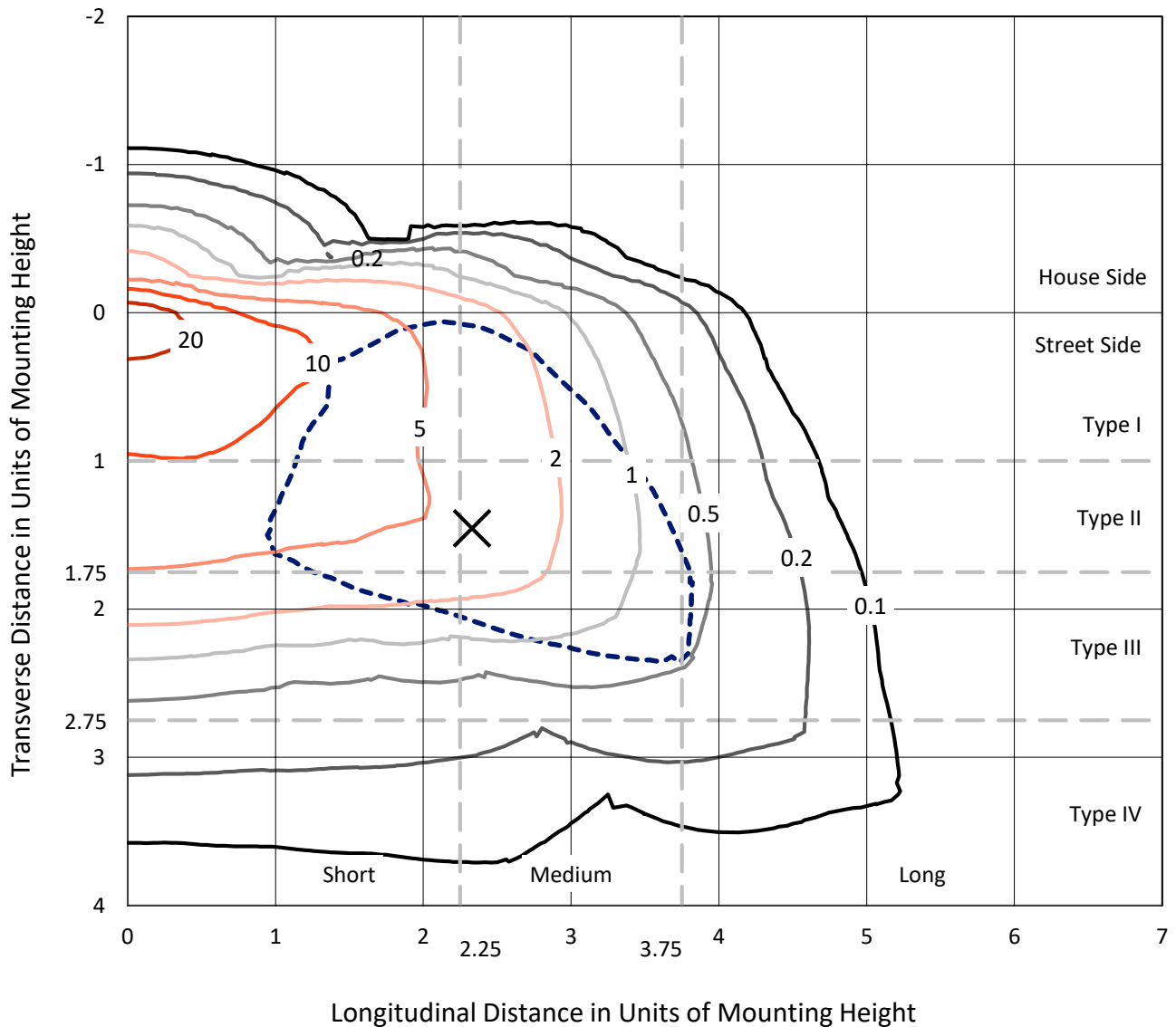
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

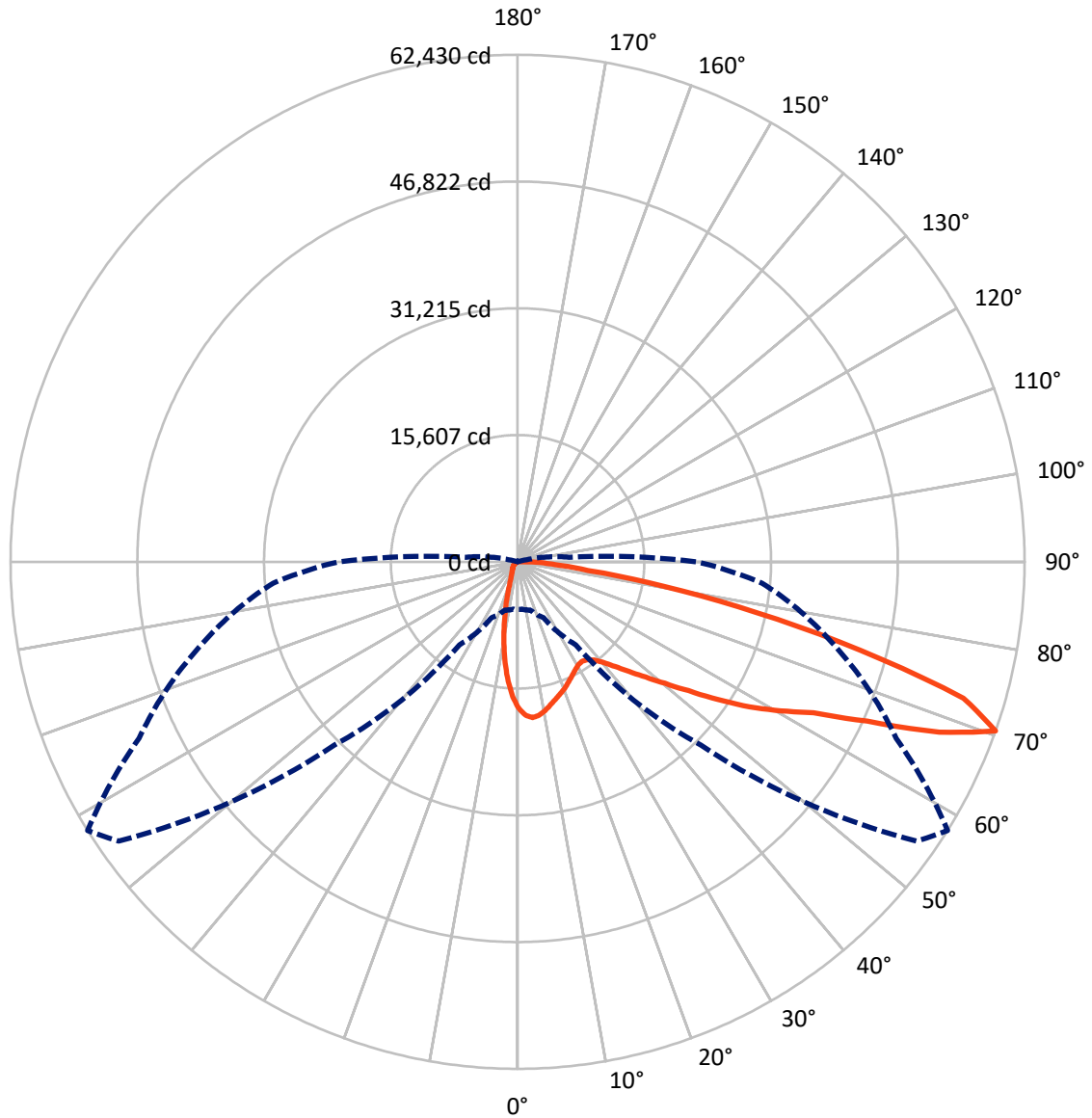
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.3 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	5230.4	0.0	5230.4
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	55888.4	0.0	55888.4
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	61118.8	0.0	61118.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1476.4	2.4
10°-20°	3098.6	5.1
20°-30°	4073.5	6.7
30°-40°	5394.9	8.8
40°-50°	8063.8	13.2
50°-60°	12917.9	21.1
60°-70°	16282.8	26.6
70°-80°	8782.9	14.4
80°-90°	1028.1	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°	61118.8	100.0
0°-180°	61118.8	100.0

**Coefficient of Utilization**



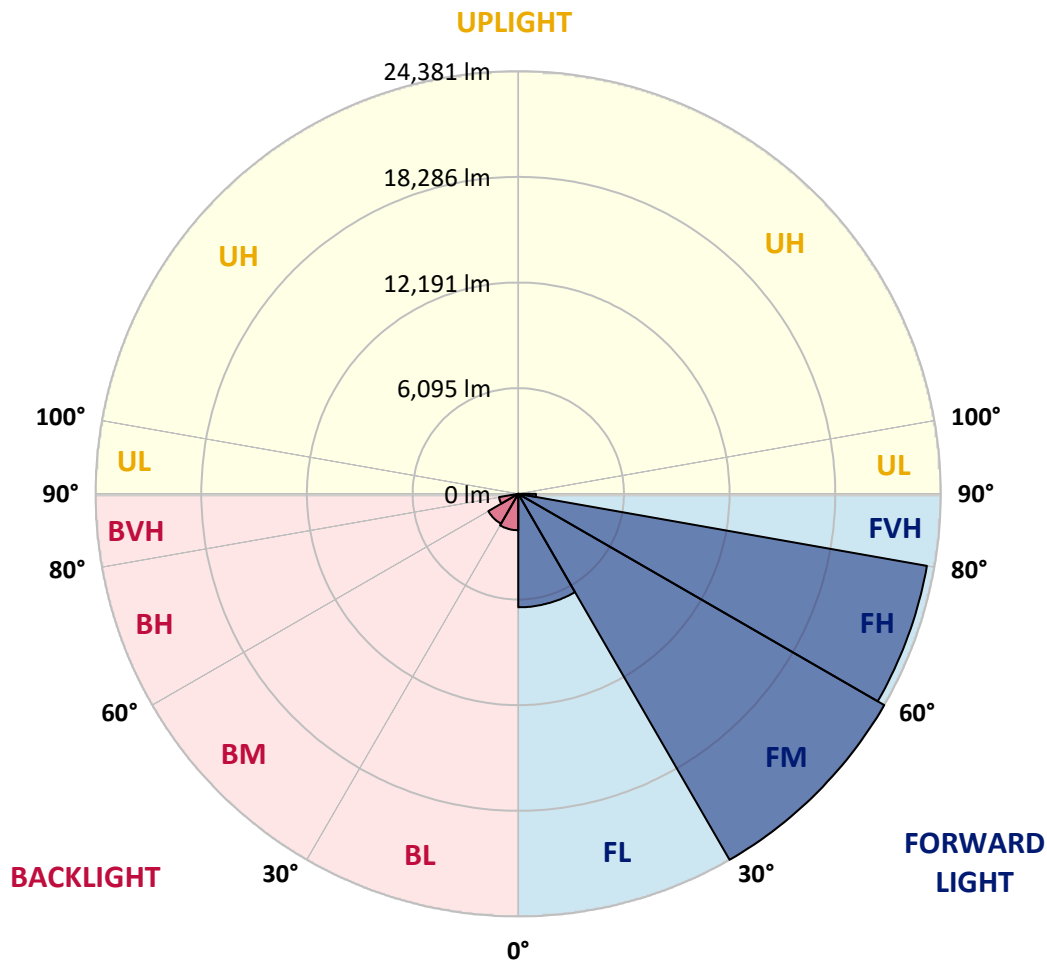
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6547.1	10.7			
FM (30°-60°)	24381.3	39.9			
FH (60°-80°)	23940.9	39.2			G5
FVH (80°-90°)	1019.2	1.7			G5
BL (0°-30°)	2101.4	3.4	B3/2500		
BM (30°-60°)	1995.3	3.3	B2/2500		
BH (60°-80°)	1124.8	1.8	B3/2500		G3/2500
BVH (80°-90°)	8.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	18054.2	18054.2	18054.2	18054.2	18054.2	18054.2	18054.2	18054.2	18054.2	18054.2	18054.2
2.5°	19551.1	19502.8	19485.0	19454.5	19337.6	19223.2	18997.1	18933.5	18791.3	18453.2	18094.8
5°	19566.3	19563.8	19617.2	19604.5	19563.8	19510.4	19347.8	19263.9	19022.5	18539.7	17883.9
7.5°	18623.5	18671.8	18791.3	18887.8	18999.7	19144.5	19164.8	19083.5	18885.3	18364.2	17495.1
10°	17357.9	17434.1	17601.9	17792.5	18084.7	18374.4	18633.7	18623.5	18554.8	18041.5	17027.5
12.5°	16089.7	16178.7	16371.8	16653.9	17068.2	17540.9	18003.4	18066.9	18181.3	17751.8	16595.4
15°	14979.1	15055.3	15246.0	15591.6	16105.0	16740.3	17418.8	17535.7	17830.6	17525.6	16234.5
17.5°	14036.3	14084.5	14224.3	14608.1	15202.8	15972.8	16854.7	17083.4	17523.1	17347.7	15922.0
20°	13378.0	13385.6	13477.2	13746.5	14341.2	15202.8	16270.1	16597.9	17197.8	17195.3	15599.2
22.5°	13052.8	13027.3	13045.1	13200.1	13637.2	14468.2	15685.6	16074.4	16905.5	17065.6	15271.3
25°	12991.7	12971.4	12920.6	12940.9	13205.2	13825.3	15096.0	15545.9	16648.8	16986.9	14986.7
27.5°	13182.3	13202.6	13116.3	13024.7	13045.1	13408.5	14572.5	15093.5	16440.4	16986.9	14786.0
30°	13566.0	13576.3	13512.8	13393.2	13233.2	13291.6	14209.1	14730.0	16336.2	17103.7	14658.9
32.5°	13990.4	14046.4	14038.8	13942.2	13713.5	13477.2	14122.6	14597.9	16328.6	17362.9	14646.2
35°	14516.6	14580.1	14686.9	14666.5	14427.6	14038.8	14417.5	14791.0	16478.5	17790.0	14783.4
37.5°	15075.7	15172.2	15401.0	15510.3	15355.3	14915.6	15078.2	15345.1	16880.1	18481.2	15131.6
40°	15617.0	15726.3	16143.1	16572.6	16455.7	16003.3	16079.5	16293.0	17594.2	19474.8	15792.3
42.5°	16148.2	16310.8	16923.3	17629.8	17769.5	17408.7	17449.4	17619.7	18654.0	20842.2	16872.5
45°	16783.5	16966.5	17873.8	18745.4	19119.1	18961.5	19134.4	19246.1	20039.1	22649.1	18328.7
47.5°	17716.2	17927.2	19040.3	20034.0	20689.7	20791.3	21139.5	21213.2	21790.1	24753.4	20227.2
50°	19535.9	19594.4	20600.7	21502.9	22448.3	23058.2	23454.7	23510.7	23909.7	27053.4	22598.2
52.5°	21825.7	21863.8	22433.1	23037.9	24112.9	25358.2	26285.9	26364.7	26448.5	29294.9	24938.9
55°	24100.3	24095.1	24471.3	24827.0	26057.2	27866.6	29879.4	29927.7	29325.4	31422.0	26728.1
57.5°	25520.9	25658.2	26230.0	26687.4	28405.4	30725.7	33518.8	33696.6	32347.2	32997.7	28496.9
60°	25068.5	25134.6	26402.8	28095.4	31330.6	34789.4	37201.3	37247.0	34619.2	34570.8	30733.3
62.5°	21358.1	21393.6	23386.1	26875.4	32812.2	40060.4	41643.6	40899.0	37231.7	36753.9	33409.5
65°	14638.5	14869.8	16534.4	20847.2	30090.4	43366.7	48520.7	47288.2	41214.2	39900.2	35828.9
67.5°	8620.4	8572.2	9395.6	12572.4	22100.1	41171.0	57219.9	55995.0	46645.1	42007.0	35119.8
70°	5888.5	5855.4	6170.6	7611.6	12475.8	31937.9	59957.1	62429.9	51440.8	40588.9	30225.1
72.5°	4203.5	4221.3	4686.3	5913.8	7832.6	18608.2	51560.2	57413.1	49938.8	35384.1	22974.4
75°	2854.0	2902.3	3568.1	4851.6	6866.9	9466.8	36588.8	43643.8	40665.2	25716.6	13205.2
77.5°	1535.0	1588.4	2373.7	3908.7	6208.7	6577.2	23536.0	30037.0	25543.8	11560.9	3827.4
80°	640.4	670.9	1110.6	2841.3	5365.0	5776.6	13848.2	18214.4	10884.9	2279.7	853.9
82.5°	277.0	292.2	462.5	1695.1	4010.3	4876.9	7332.0	8762.8	3298.8	500.6	429.5
85°	53.4	55.9	190.6	897.1	2559.2	2752.4	4752.5	4658.4	1481.6	216.0	312.6
87.5°	0.0	0.0	45.7	282.1	752.2	1499.4	2899.7	2864.1	503.2	104.2	116.9
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°	18054.2	18054.2	18054.2	18054.2	18054.2	18054.2	18054.2	18054.2	18054.2	18054.2	18054.2
2.5°	17911.9	17736.6	17368.1	16913.1	16565.0	16181.2	15876.2	15490.0	15322.2	15329.8	15238.3
5°	17510.4	17149.5	16333.7	15304.4	14511.5	13693.2	12989.2	12287.8	11873.5	11738.8	11611.7
7.5°	16936.0	16364.2	15062.9	13477.2	12135.3	10823.9	9682.8	8678.9	8043.5	7733.5	7619.1
10°	16287.9	15484.8	13601.6	11512.6	9596.4	7822.5	6343.4	5057.4	4544.1	4195.9	4106.9
12.5°	15718.7	14630.9	12173.4	9497.3	7222.7	5082.8	3672.3	2871.8	2523.7	2386.3	2363.5
15°	15182.5	13832.9	10798.5	7672.5	5001.5	3128.5	2335.6	2063.7	1982.3	1959.4	1959.4
17.5°	14676.7	13073.1	9454.1	5875.7	3309.0	2193.2	1934.0	1873.1	1847.6	1845.0	1847.6
20°	14148.1	12313.2	8132.5	4305.1	2310.1	1857.8	1786.6	1753.5	1745.9	1745.9	1745.9
22.5°	13642.3	11553.2	6846.6	3075.1	1852.7	1695.1	1659.6	1636.6	1629.1	1626.5	1621.5
25°	13156.9	10831.5	5591.1	2172.9	1626.5	1552.8	1522.3	1491.8	1469.0	1456.2	1448.6
27.5°	12757.9	10188.5	4422.1	1743.4	1469.0	1405.4	1367.3	1321.5	1265.6	1240.2	1230.0
30°	12440.3	9601.5	3408.1	1471.5	1321.5	1258.0	1199.6	1120.7	1039.4	996.2	993.7
32.5°	12191.2	9024.6	2587.2	1301.2	1189.4	1110.6	1026.8	927.6	833.5	785.3	782.8
35°	12069.2	8516.3	1977.2	1176.6	1072.5	973.4	869.1	759.9	668.4	622.6	617.5
37.5°	12150.5	8086.8	1542.6	1072.5	973.4	859.0	737.0	622.6	541.3	500.6	498.1
40°	12447.9	7812.3	1252.9	983.5	889.5	749.7	617.5	510.9	442.2	409.1	406.6
42.5°	13080.7	7710.7	1070.0	909.8	808.2	648.1	513.4	421.9	358.4	335.5	330.4
45°	14137.9	7860.6	945.4	838.7	724.3	551.5	424.4	345.6	289.7	271.9	269.4
47.5°	15545.9	8254.5	856.5	770.0	648.1	465.1	353.2	279.6	236.3	218.5	216.0
50°	17360.4	8879.7	782.8	701.5	576.9	394.0	292.2	221.1	183.0	170.3	170.3
52.5°	19335.1	9624.4	716.6	637.9	505.7	327.8	236.3	170.3	144.9	129.6	129.6
55°	20966.7	10275.0	645.6	589.6	419.3	271.9	180.4	129.6	106.8	99.1	99.1
57.5°	22595.7	10968.8	564.2	505.7	335.5	221.1	137.2	96.6	78.8	73.7	73.7
60°	24707.6	11817.6	485.4	411.7	264.3	167.8	101.6	68.7	58.4	55.9	55.9
62.5°	27030.5	12315.7	414.3	330.4	205.9	124.5	73.7	45.7	43.2	43.2	40.7
65°	28451.1	11611.7	348.2	264.3	160.1	94.0	48.3	33.1	38.1	35.6	30.5
67.5°	26639.1	9090.6	284.7	205.9	124.5	71.2	30.5	22.9	40.7	33.1	25.4
70°	22056.9	6363.7	221.1	144.9	99.1	61.0	20.3	15.3	43.2	33.1	20.3
72.5°	16506.5	4259.4	175.3	96.6	73.7	53.4	17.8	7.6	38.1	27.9	17.8
75°	9019.5	1715.4	139.7	61.0	45.7	38.1	12.7	5.1	25.4	20.3	12.7
77.5°	2373.7	452.4	101.6	40.7	25.4	15.3	7.6	2.5	12.7	10.2	5.1
80°	604.9	175.3	66.0	27.9	17.8	7.6	0.0	0.0	2.5	0.0	0.0
82.5°	322.8	73.7	40.7	20.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	244.0	48.3	22.9	12.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	94.0	15.3	7.6	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)