

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: P323644

Luminaire Tested: **GLEON-SA0B-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323644
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-SA0B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA 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: 35523 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

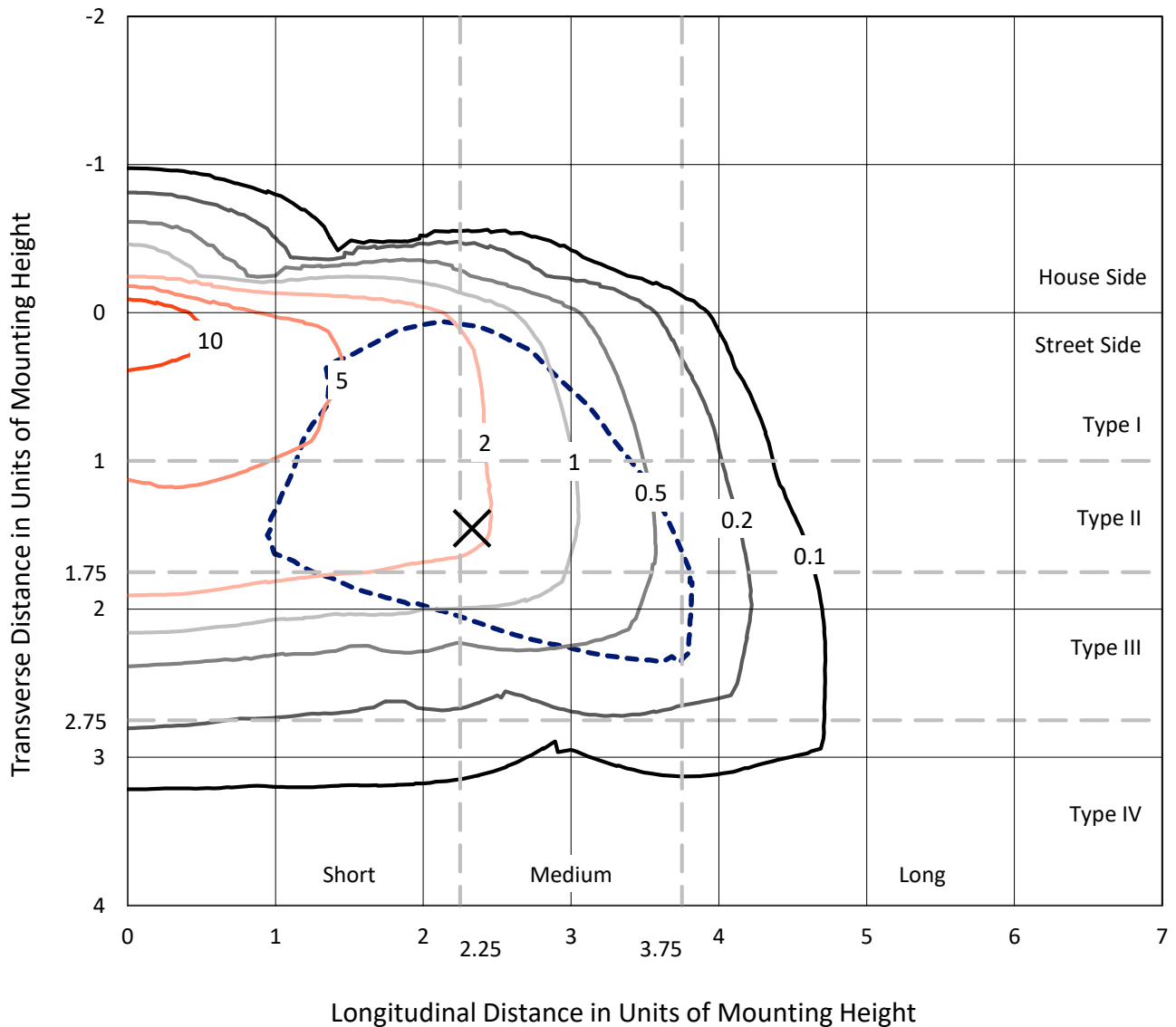
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

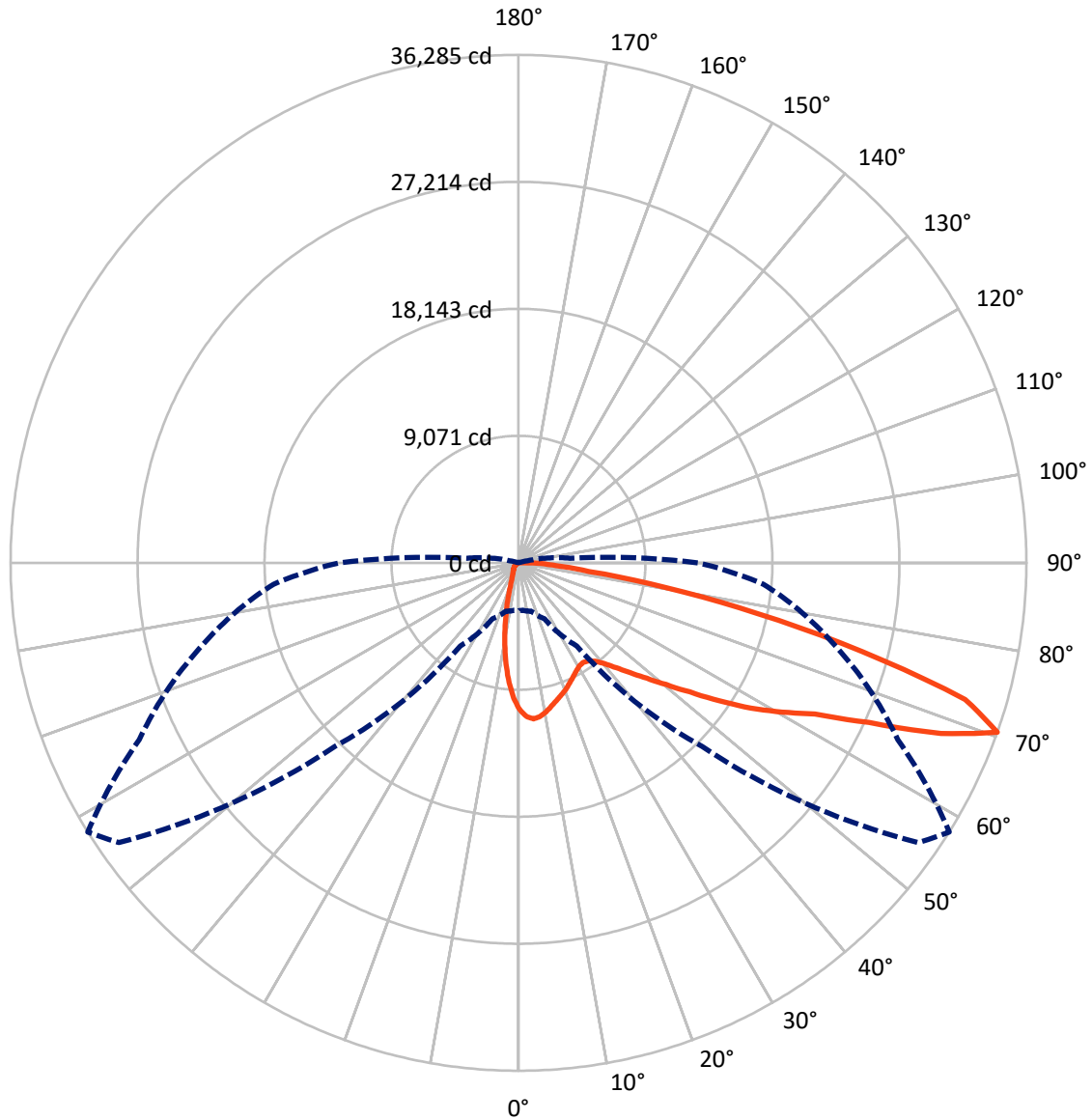
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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
House Side	Lumens	3040.0	0.0	3040.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	32483.0	0.0	32483.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	35523.0	0.0	35523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	858.1	2.4
10°-20°	1800.9	5.1
20°-30°	2367.6	6.7
30°-40°	3135.6	8.8
40°-50°	4686.8	13.2
50°-60°	7508.0	21.1
60°-70°	9463.8	26.6
70°-80°	5104.7	14.4
80°-90°	597.5	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°	35523.0	100.0
0°-180°	35523.0	100.0

Coefficient of Utilization

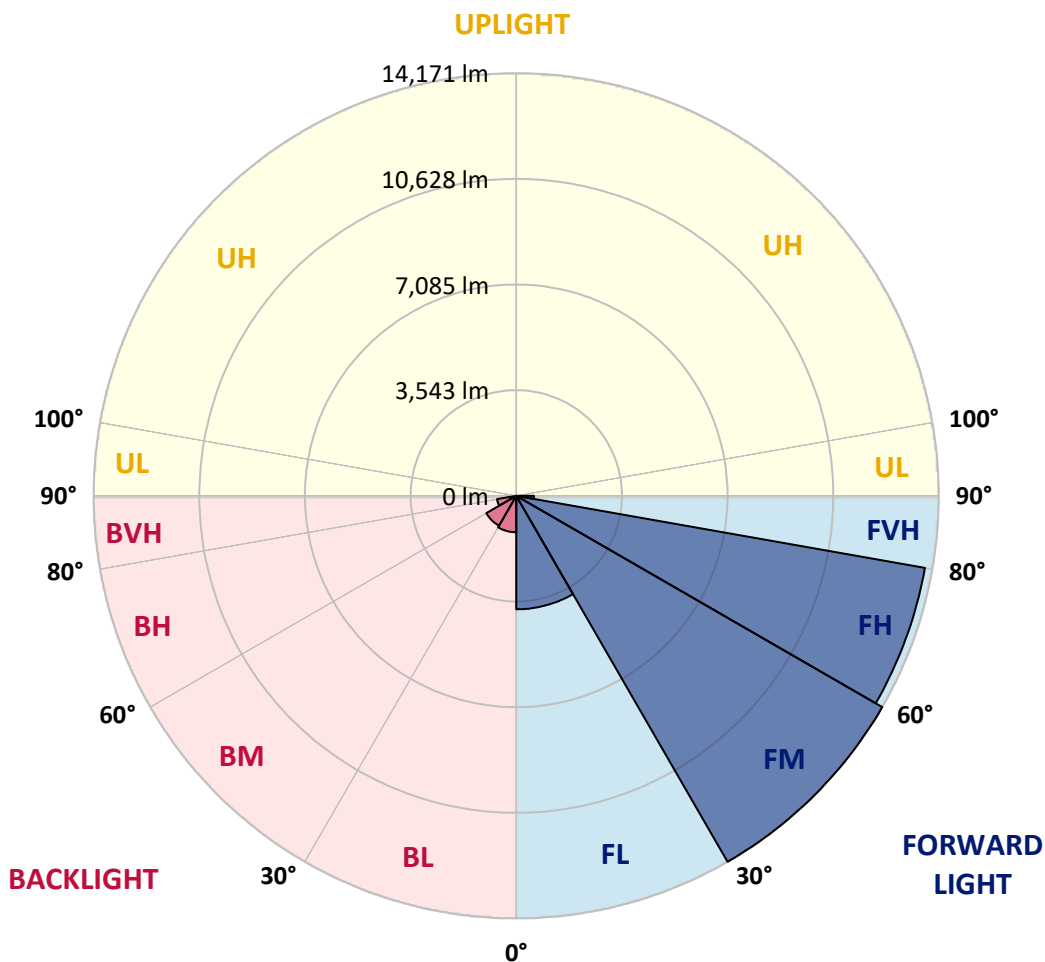


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3805.2	10.7			
FM (30°-60°)	14170.7	39.9			
FH (60°-80°)	13914.7	39.2			G5
FVH (80°-90°)	592.4	1.7			G4/750
BL (0°-30°)	1221.3	3.4	B3/2500		
BM (30°-60°)	1159.7	3.3	B2/2500		
BH (60°-80°)	653.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.2	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°	10493.3	10493.3	10493.3	10493.3	10493.3	10493.3	10493.3	10493.3	10493.3	10493.3	10493.3
2.5°	11363.3	11335.3	11324.9	11307.2	11239.3	11172.8	11041.3	11004.4	10921.7	10725.2	10517.0
5°	11372.2	11370.7	11401.7	11394.4	11370.7	11339.7	11245.2	11196.4	11056.1	10775.5	10394.4
7.5°	10824.2	10852.3	10921.7	10977.8	11042.8	11127.0	11138.8	11091.6	10976.3	10673.5	10168.4
10°	10088.6	10132.9	10230.4	10341.2	10511.1	10679.4	10830.1	10824.2	10784.3	10485.9	9896.6
12.5°	9351.5	9403.2	9515.5	9679.4	9920.2	10195.0	10463.8	10500.7	10567.2	10317.6	9645.5
15°	8706.0	8750.3	8861.1	9062.0	9360.4	9729.7	10124.1	10192.0	10363.3	10186.1	9435.7
17.5°	8158.0	8186.1	8267.3	8490.4	8836.0	9283.6	9796.1	9929.1	10184.6	10082.7	9254.0
20°	7775.5	7779.9	7833.1	7989.6	8335.3	8836.0	9456.4	9646.9	9995.5	9994.1	9066.4
22.5°	7586.4	7571.6	7582.0	7672.1	7926.1	8409.1	9116.7	9342.7	9825.7	9918.7	8875.9
25°	7550.9	7539.1	7509.6	7521.4	7675.0	8035.4	8774.0	9035.4	9676.5	9872.9	8710.5
27.5°	7661.7	7673.5	7623.3	7570.1	7582.0	7793.2	8469.7	8772.5	9555.4	9872.9	8593.8
30°	7884.8	7890.7	7853.7	7784.3	7691.3	7725.2	8258.5	8561.3	9494.8	9940.9	8519.9
32.5°	8131.4	8163.9	8159.5	8103.4	7970.4	7833.1	8208.3	8484.5	9490.4	10091.6	8512.5
35°	8437.2	8474.1	8536.2	8524.4	8385.5	8159.5	8379.6	8596.7	9577.5	10339.7	8592.3
37.5°	8762.2	8818.3	8951.2	9014.7	8924.6	8669.1	8763.6	8918.7	9810.9	10741.5	8794.7
40°	9076.8	9140.3	9382.5	9632.2	9564.2	9301.3	9345.6	9469.7	10226.0	11319.0	9178.7
42.5°	9385.5	9480.0	9836.0	10246.7	10327.9	10118.1	10141.8	10240.7	10841.9	12113.7	9806.5
45°	9754.8	9861.1	10388.5	10895.1	11112.2	11020.7	11121.1	11186.1	11646.9	13163.9	10652.9
47.5°	10296.9	10419.5	11066.4	11644.0	12025.1	12084.2	12286.5	12329.4	12664.7	14387.0	11756.2
50°	11354.5	11388.4	11973.4	12497.8	13047.2	13401.7	13632.2	13664.7	13896.6	15723.7	13134.4
52.5°	12685.3	12707.5	13038.4	13389.9	14014.7	14738.5	15277.7	15323.4	15372.2	17026.5	14494.8
55°	14007.3	14004.4	14223.0	14429.8	15144.7	16196.4	17366.3	17394.3	17044.3	18262.9	15534.7
57.5°	14833.0	14912.8	15245.2	15511.0	16509.6	17858.2	19481.5	19584.9	18800.5	19178.7	16562.7
60°	14570.1	14608.5	15345.6	16329.4	18209.7	20220.0	21621.8	21648.4	20121.1	20093.0	17862.6
62.5°	12413.6	12434.2	13592.3	15620.3	19070.9	23283.5	24203.8	23771.0	21639.5	21361.8	19418.0
65°	8508.1	8642.5	9610.0	12116.7	17488.9	25205.3	28200.8	27484.4	23954.1	23190.5	20824.2
67.5°	5010.3	4982.3	5460.8	7307.2	12844.9	23929.0	33256.9	32545.0	27110.7	24415.0	20412.1
70°	3422.4	3403.2	3586.4	4423.9	7251.1	18562.7	34847.8	36285.0	29898.0	23590.8	17567.2
72.5°	2443.1	2453.5	2723.8	3437.2	4552.4	10815.3	29967.4	33369.2	29025.0	20565.7	13353.0
75°	1658.8	1686.8	2073.8	2819.8	3991.1	5502.2	21265.8	25366.3	23635.1	14946.8	7675.0
77.5°	892.2	923.2	1379.6	2271.8	3608.6	3822.7	13679.4	17457.9	14846.3	6719.3	2224.5
80°	372.2	390.0	645.5	1651.4	3118.2	3357.5	8048.7	10586.4	6326.4	1325.0	496.3
82.5°	161.0	169.9	268.8	985.2	2330.9	2834.6	4261.4	5093.0	1917.3	291.0	249.6
85°	31.0	32.5	110.8	521.4	1487.4	1599.7	2762.2	2707.5	861.1	125.6	181.7
87.5°	0.0	0.0	26.6	164.0	437.2	871.5	1685.4	1664.7	292.5	60.6	67.9
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°	10493.3	10493.3	10493.3	10493.3	10493.3	10493.3	10493.3	10493.3	10493.3	10493.3	10493.3
2.5°	10410.6	10308.7	10094.5	9830.1	9627.7	9404.7	9227.5	9002.9	8905.4	8909.9	8856.7
5°	10177.2	9967.5	9493.3	8895.1	8434.2	7958.6	7549.5	7141.8	6901.0	6822.7	6748.9
7.5°	9843.4	9511.1	8754.8	7833.1	7053.2	6291.0	5627.8	5044.3	4675.0	4494.8	4428.3
10°	9466.7	9000.0	7905.4	6691.3	5577.5	4546.5	3686.8	2939.4	2641.1	2438.7	2387.0
12.5°	9135.9	8503.7	7075.3	5519.9	4197.9	2954.2	2134.4	1669.1	1466.8	1387.0	1373.7
15°	8824.2	8039.9	6276.2	4459.4	2906.9	1818.3	1357.5	1199.4	1152.1	1138.8	1138.8
17.5°	8530.3	7598.2	5494.8	3415.1	1923.2	1274.7	1124.1	1088.6	1073.9	1072.4	1073.9
20°	8223.0	7156.6	4726.7	2502.2	1342.7	1079.8	1038.4	1019.2	1014.8	1014.8	1014.8
22.5°	7929.1	6714.9	3979.3	1787.3	1076.8	985.2	964.5	951.3	946.8	945.3	942.4
25°	7647.0	6295.4	3249.6	1262.9	945.3	902.5	884.8	867.1	853.8	846.4	841.9
27.5°	7415.0	5921.7	2570.2	1013.3	853.8	816.8	794.7	768.1	735.6	720.8	714.9
30°	7230.4	5580.5	1980.8	855.2	768.1	731.2	697.2	651.4	604.1	579.0	577.5
32.5°	7085.7	5245.2	1503.7	756.3	691.3	645.5	596.7	539.1	484.5	456.4	454.9
35°	7014.8	4949.8	1149.2	683.9	623.3	565.7	505.2	441.7	388.5	361.9	358.9
37.5°	7062.0	4700.1	896.6	623.3	565.7	499.3	428.4	361.9	314.6	291.0	289.5
40°	7234.8	4540.6	728.2	571.6	517.0	435.7	358.9	296.9	257.0	237.8	236.3
42.5°	7602.6	4481.5	621.9	528.8	469.7	376.7	298.4	245.2	208.3	195.0	192.0
45°	8217.1	4568.7	549.5	487.4	421.0	320.5	246.7	200.9	168.4	158.0	156.6
47.5°	9035.4	4797.6	497.8	447.6	376.7	270.3	205.3	162.5	137.4	127.0	125.6
50°	10090.1	5161.0	454.9	407.7	335.3	229.0	169.9	128.5	106.4	99.0	99.0
52.5°	11237.8	5593.8	416.5	370.8	293.9	190.5	137.4	99.0	84.2	75.3	75.3
55°	12186.1	5971.9	375.2	342.7	243.7	158.0	104.9	75.3	62.0	57.6	57.6
57.5°	13132.9	6375.2	327.9	293.9	195.0	128.5	79.8	56.1	45.8	42.8	42.8
60°	14360.4	6868.5	282.1	239.3	153.6	97.5	59.1	39.9	34.0	32.5	32.5
62.5°	15710.4	7158.0	240.8	192.0	119.6	72.4	42.8	26.6	25.1	25.1	23.6
65°	16536.1	6748.9	202.4	153.6	93.1	54.7	28.1	19.2	22.2	20.7	17.7
67.5°	15483.0	5283.6	165.4	119.6	72.4	41.4	17.7	13.3	23.6	19.2	14.8
70°	12819.8	3698.7	128.5	84.2	57.6	35.5	11.8	8.9	25.1	19.2	11.8
72.5°	9593.8	2475.6	101.9	56.1	42.8	31.0	10.3	4.4	22.2	16.2	10.3
75°	5242.2	997.0	81.2	35.5	26.6	22.2	7.4	3.0	14.8	11.8	7.4
77.5°	1379.6	262.9	59.1	23.6	14.8	8.9	4.4	1.5	7.4	5.9	3.0
80°	351.6	101.9	38.4	16.2	10.3	4.4	0.0	0.0	1.5	0.0	0.0
82.5°	187.6	42.8	23.6	11.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	141.8	28.1	13.3	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	54.7	8.9	4.4	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)