

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: P383504

Luminaire Tested: **GLEON-SA8A-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8A-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28237.1 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

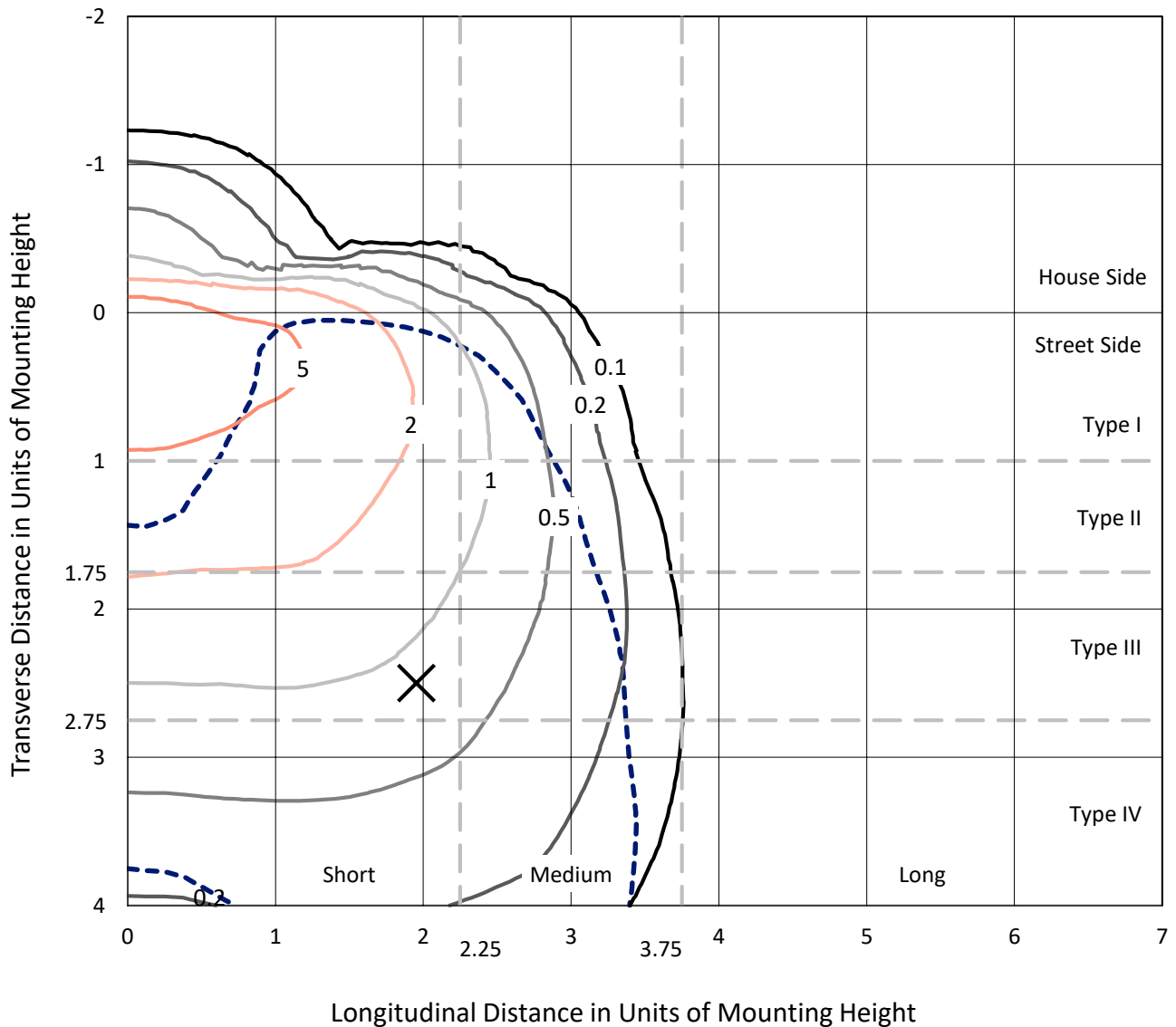
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

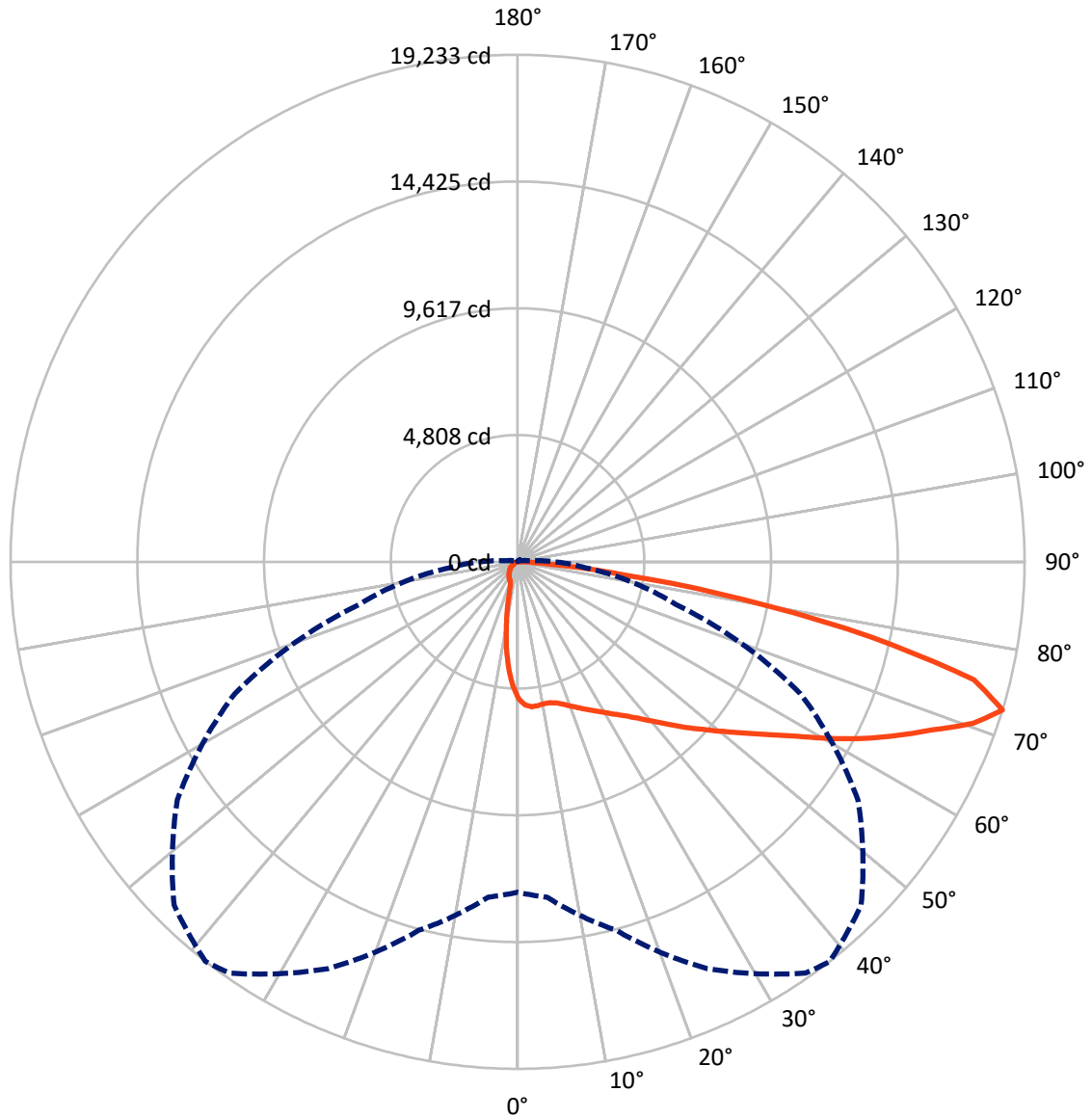
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2376.3	0.0	2376.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	25860.8	0.0	25860.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	28237.1	0.0	28237.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.5	1.6
10°-20°	1082.1	3.8
20°-30°	1721.0	6.1
30°-40°	2587.3	9.2
40°-50°	3947.1	14.0
50°-60°	5578.6	19.8
60°-70°	6997.5	24.8
70°-80°	5232.2	18.5
80°-90°	648.8	2.3
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°	28237.1	100.0
0°-180°	28237.1	100.0

**Coefficient of Utilization**



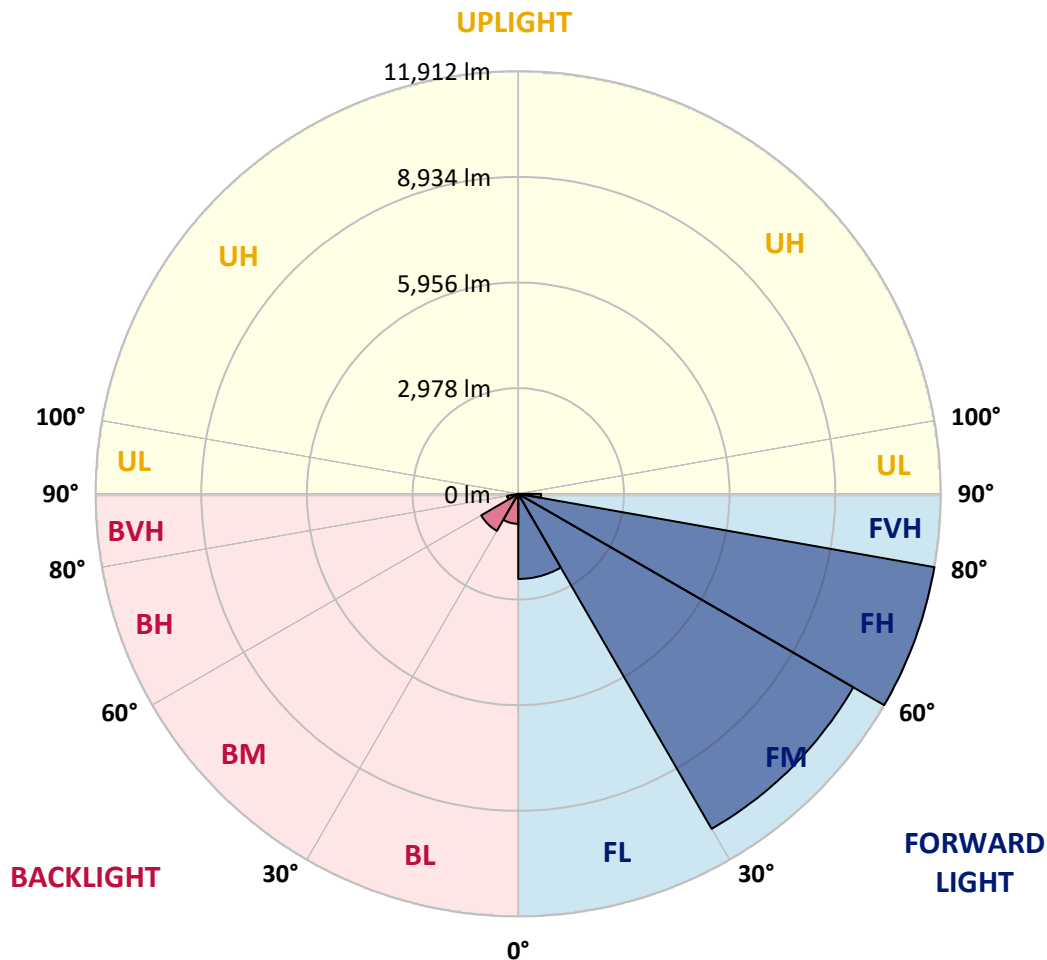
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2399.5	8.5			
FM (30°-60°)	10906.4	38.6			
FH (60°-80°)	11912.2	42.2			G4/12000
FVH (80°-90°)	642.7	2.3			G4/750
BL (0°-30°)	846.1	3.0	B2/1000		
BM (30°-60°)	1206.7	4.3	B2/2500		
BH (60°-80°)	317.4	1.1	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7
2.5°	5511.7	5512.8	5500.0	5478.8	5451.9	5437.8	5414.3	5376.8	5336.9	5265.4	5188.0
5°	5624.2	5624.2	5607.8	5579.7	5536.3	5523.4	5478.8	5419.0	5336.9	5220.9	5090.7
7.5°	5612.6	5614.9	5592.6	5563.3	5519.9	5508.1	5454.2	5387.3	5285.3	5144.7	4978.1
10°	5551.6	5557.4	5539.8	5525.8	5485.9	5472.9	5422.5	5355.7	5253.6	5103.6	4912.4
12.5°	5489.4	5495.3	5501.2	5514.0	5489.4	5484.7	5444.8	5388.5	5291.2	5135.2	4919.5
15°	5449.6	5461.3	5503.5	5553.9	5559.8	5555.1	5529.3	5476.5	5378.0	5216.2	4969.9
17.5°	5449.6	5468.3	5556.2	5652.4	5686.4	5689.9	5667.6	5593.8	5476.5	5302.9	5016.8
20°	5495.3	5521.1	5658.2	5794.3	5850.6	5850.6	5807.2	5704.0	5566.8	5381.6	5048.4
22.5°	5612.6	5646.6	5818.9	5976.1	6035.9	6023.0	5964.3	5814.3	5660.6	5470.6	5088.3
25°	5843.5	5869.3	6048.8	6207.1	6243.4	6214.2	6140.2	5947.9	5780.3	5591.4	5161.1
27.5°	6141.4	6145.0	6330.2	6463.9	6441.7	6421.7	6329.0	6115.6	5952.6	5763.8	5286.5
30°	6468.6	6468.6	6631.6	6733.6	6665.6	6649.2	6556.5	6318.5	6173.1	5998.3	5464.7
32.5°	6785.2	6799.3	6931.8	6996.3	6920.1	6903.7	6813.3	6575.3	6466.2	6356.0	5742.7
35°	7091.3	7101.8	7227.3	7262.5	7189.8	7194.5	7130.0	6928.3	6887.2	6873.1	6161.3
37.5°	7388.0	7390.3	7518.1	7540.4	7504.1	7544.0	7549.8	7371.6	7447.8	7561.6	6751.2
40°	7658.9	7661.2	7787.9	7845.3	7907.5	7959.1	8004.8	7909.9	8161.9	8425.8	7453.7
42.5°	7875.9	7900.5	8061.1	8170.1	8334.4	8432.8	8557.2	8552.4	9012.2	9408.5	8302.7
45°	8067.0	8109.2	8333.2	8524.3	8805.8	8962.9	9157.6	9310.1	9969.1	10502.6	9162.3
47.5°	8319.1	8359.0	8614.7	8927.8	9303.0	9509.4	9831.9	10161.4	11021.0	11576.9	10001.9
50°	8674.5	8656.9	8908.9	9358.1	9840.1	10111.0	10570.7	11064.4	12064.8	12512.6	10495.7
52.5°	9053.2	9046.2	9232.7	9826.1	10473.4	10790.0	11397.5	11997.9	13062.7	13157.6	10721.9
55°	9522.3	9471.9	9629.0	10359.6	11225.1	11565.2	12280.5	12922.0	13857.8	13521.2	10835.8
57.5°	10013.7	9930.4	10080.5	10954.2	12073.0	12475.2	13258.5	13822.6	14386.6	13769.9	10834.6
60°	10521.5	10422.9	10601.2	11697.6	13126.0	13591.6	14318.6	14431.3	14880.4	13895.3	10754.8
62.5°	10946.0	10887.4	11152.4	12492.7	14302.2	14759.5	15119.6	14984.7	15296.7	13992.6	10568.3
65°	11395.1	11398.6	11826.6	13420.3	15552.3	15860.7	15891.2	15702.4	15645.0	13972.7	9937.5
67.5°	12002.5	12058.9	12773.0	14679.8	16768.4	17006.4	17004.1	16479.9	15899.5	13179.9	8538.4
70°	12645.2	12777.7	13863.7	16121.1	18095.9	18337.5	18213.2	16974.8	14970.6	10657.5	6042.9
72.5°	12537.3	12767.1	14469.9	17029.9	19049.3	19233.4	18425.5	15758.7	11832.5	6194.2	2572.9
75°	9672.4	9938.6	13267.9	16129.3	18049.0	17883.7	15831.4	12262.9	6466.2	1728.6	579.3
77.5°	5109.4	5251.3	8764.7	12287.5	14073.5	13727.6	11152.4	6802.8	1971.3	428.0	260.4
80°	2676.1	2708.9	3819.4	6971.7	8686.2	8688.5	6609.3	2988.0	812.7	219.3	174.8
82.5°	1433.0	1461.2	2018.2	3221.4	4551.3	4125.5	2530.6	1644.1	472.6	124.3	167.7
85°	344.8	350.6	1144.6	1471.8	1789.5	1278.3	751.7	1380.3	127.8	72.7	136.0
87.5°	132.6	134.9	424.5	636.8	456.2	295.5	351.8	514.8	16.4	28.1	21.1
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°	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7
2.5°	5141.1	5110.7	5035.6	4940.6	4856.2	4795.1	4703.7	4643.9	4604.0	4602.9	4587.6
5°	5011.0	4948.8	4786.9	4594.7	4419.9	4262.8	4077.5	3930.9	3821.9	3804.3	3766.7
7.5°	4871.3	4769.3	4520.7	4220.6	3927.4	3629.5	3283.5	3069.0	2884.8	2796.9	2787.5
10°	4785.7	4642.7	4289.7	3855.9	3396.1	2911.8	2459.2	2146.0	1919.7	1855.2	1807.1
12.5°	4768.2	4579.4	4111.5	3513.4	2856.7	2216.4	1715.6	1382.6	1202.0	1144.6	1129.3
15°	4785.7	4550.1	3961.4	3174.5	2310.2	1572.5	1151.6	958.1	890.1	873.7	872.5
17.5°	4796.4	4514.8	3791.3	2798.1	1780.2	1123.4	881.9	825.5	815.0	813.9	816.2
20°	4795.1	4460.9	3588.4	2378.2	1324.0	883.0	797.4	785.7	783.3	784.5	783.3
22.5°	4786.9	4397.6	3365.7	1945.5	1000.3	789.2	761.1	754.1	752.9	752.9	752.9
25°	4802.2	4347.2	3120.6	1531.6	824.4	745.8	728.3	722.4	721.2	721.2	718.9
27.5°	4857.3	4319.0	2852.0	1178.6	744.7	707.1	693.1	691.9	688.4	687.2	689.5
30°	4946.4	4319.0	2557.7	917.0	696.6	667.3	656.7	654.3	653.2	652.0	653.2
32.5°	5103.6	4351.9	2236.4	762.3	650.9	622.7	615.7	619.2	615.7	615.7	615.7
35°	5387.3	4450.4	1899.8	664.9	602.8	579.3	572.2	577.0	574.6	574.6	573.5
37.5°	5801.3	4633.3	1560.9	606.3	560.5	535.9	526.5	533.6	531.3	531.3	530.1
40°	6305.6	4899.6	1238.4	561.7	519.5	493.7	485.5	489.0	483.2	483.2	485.5
42.5°	6928.3	5237.3	956.9	518.3	478.4	453.8	449.1	445.7	435.0	429.2	430.4
45°	7620.2	5589.1	745.8	476.1	439.8	419.8	412.8	403.5	385.8	374.1	375.2
47.5°	8238.2	5860.0	606.3	435.0	404.6	389.3	378.8	361.2	335.4	321.3	322.5
50°	8563.1	5901.0	516.0	394.0	371.8	356.5	341.2	314.3	283.7	268.6	267.4
52.5°	8646.3	5708.7	449.1	356.5	338.9	321.3	301.4	265.0	231.0	214.6	212.3
55°	8676.8	5415.6	389.3	321.3	303.7	283.7	258.0	217.0	185.3	168.9	167.7
57.5°	8575.9	4978.1	342.4	289.6	268.6	243.9	212.3	173.5	143.1	130.1	130.1
60°	8352.0	4385.9	306.1	255.6	232.2	204.0	171.2	134.9	106.8	96.1	96.1
62.5°	7905.1	3619.0	272.1	220.5	198.1	168.9	138.3	102.0	75.1	69.2	70.3
65°	7062.0	2745.3	238.1	188.8	168.9	139.5	107.9	72.7	50.4	50.4	52.7
67.5°	5759.1	1906.8	202.9	160.7	145.4	113.7	82.1	50.4	35.2	39.9	44.5
70°	3812.5	1069.5	173.5	132.6	124.3	90.3	61.0	34.0	28.1	37.5	45.7
72.5°	1438.9	416.3	145.4	106.8	107.9	69.2	43.4	25.8	25.8	41.1	53.9
75°	401.0	204.0	104.3	78.5	84.4	50.4	31.7	22.3	24.6	46.9	63.3
77.5°	235.7	150.1	68.0	45.7	57.5	35.2	21.1	17.6	21.1	39.9	61.0
80°	189.9	79.7	39.9	23.5	31.7	19.9	14.1	10.5	5.9	15.3	31.7
82.5°	189.9	48.1	18.7	16.4	16.4	10.5	7.1	4.7	1.2	0.0	8.2
85°	127.8	19.9	11.7	10.5	8.2	3.5	2.3	1.2	0.0	0.0	0.0
87.5°	21.1	8.2	4.7	2.3	1.2	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)