

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: P383616

Luminaire Tested: **GLEON-SA9A-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383616  
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-SA9A-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 31498.4 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

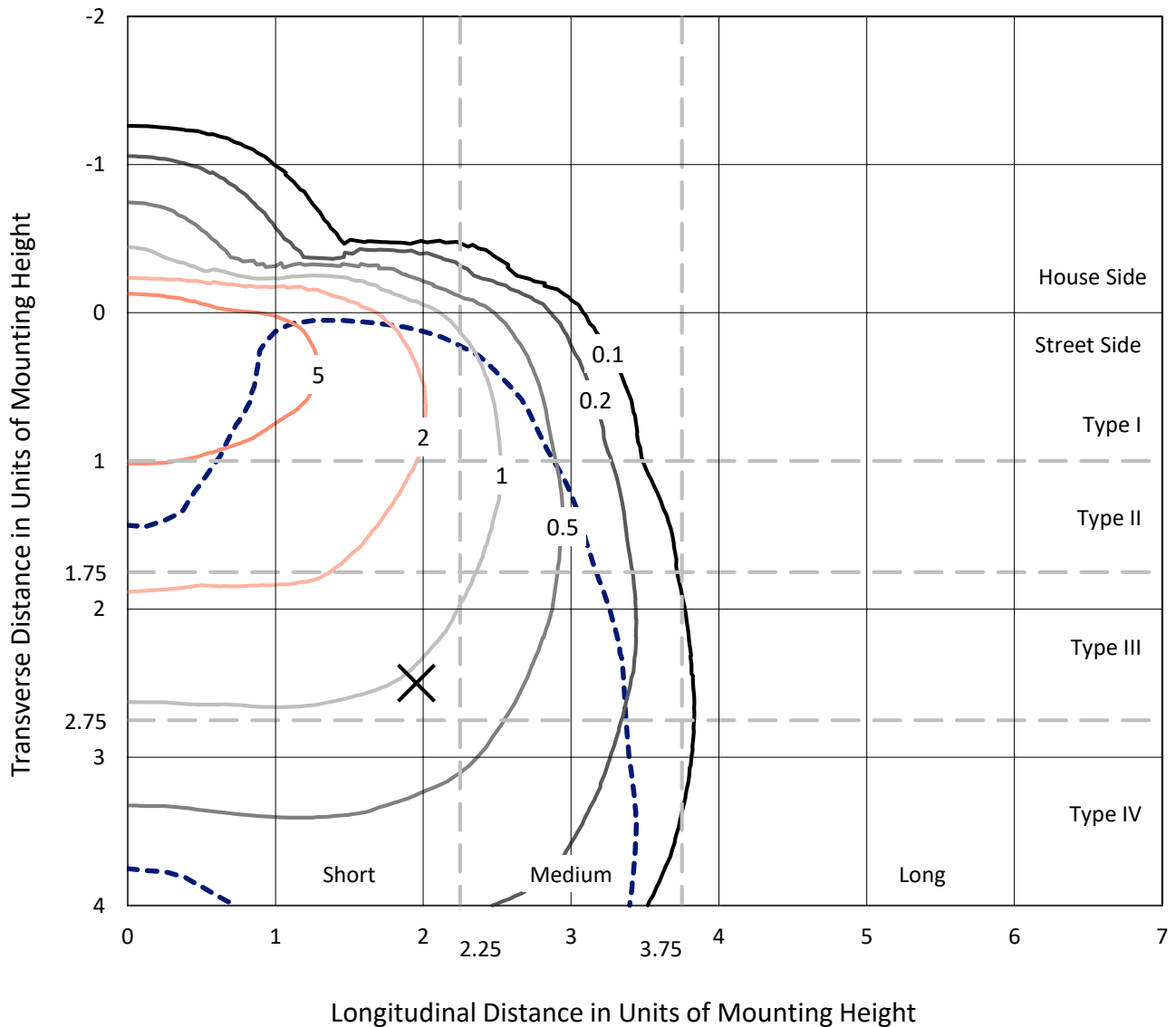
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383616  
 CATALOG NUMBER: GLEON-SA9A-735-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

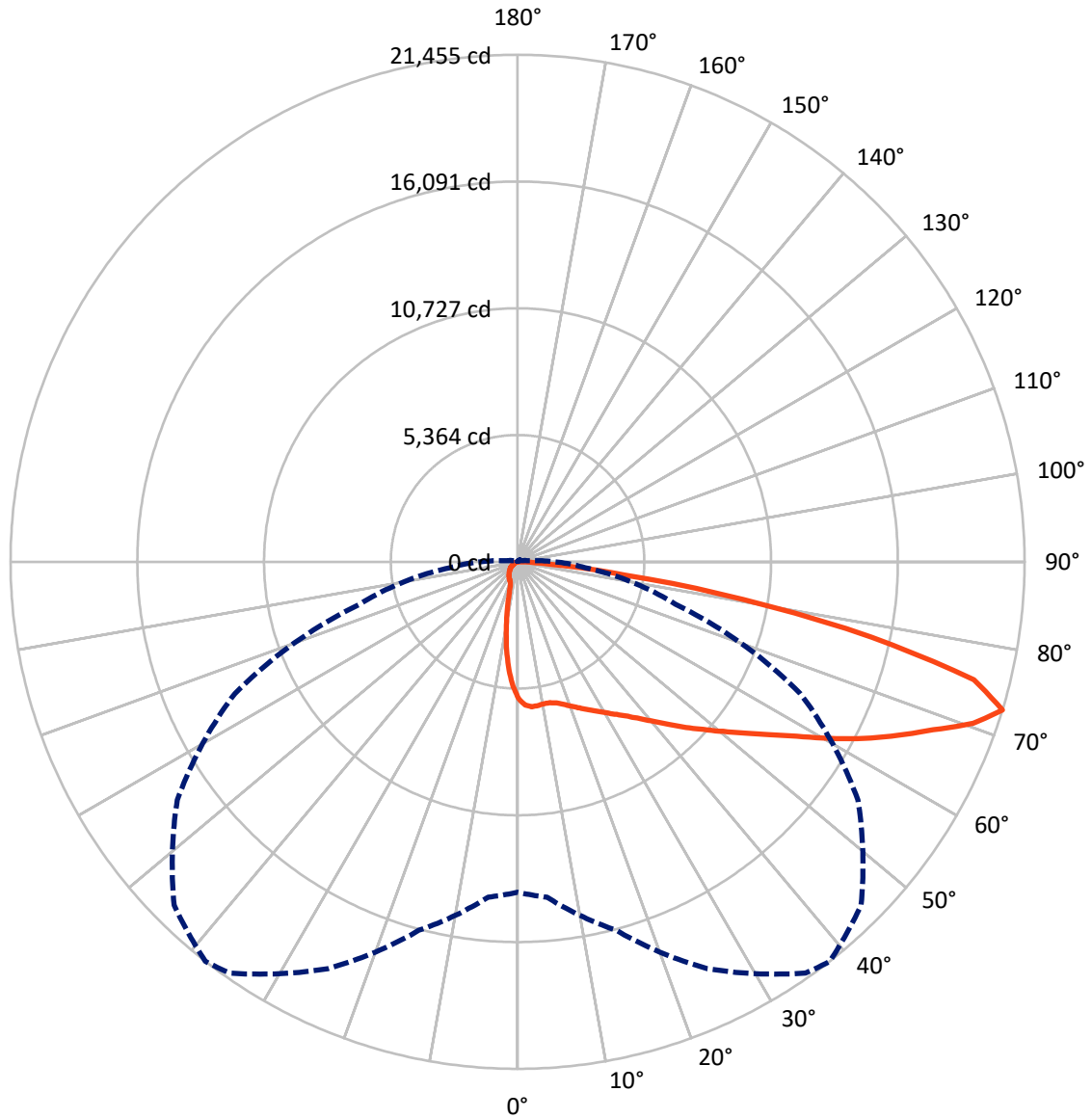
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P383616  
CATALOG NUMBER: GLEON-SA9A-735-U-SL4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P383616  
 CATALOG NUMBER: GLEON-SA9A-735-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2650.7	0.0	2650.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	28847.7	0.0	28847.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	31498.4	0.0	31498.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.6	1.6
10°-20°	1207.0	3.8
20°-30°	1919.8	6.1
30°-40°	2886.2	9.2
40°-50°	4403.0	14.0
50°-60°	6223.0	19.8
60°-70°	7805.7	24.8
70°-80°	5836.5	18.5
80°-90°	723.7	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°	31498.4	100.0
0°-180°	31498.4	100.0

**Coefficient of Utilization**

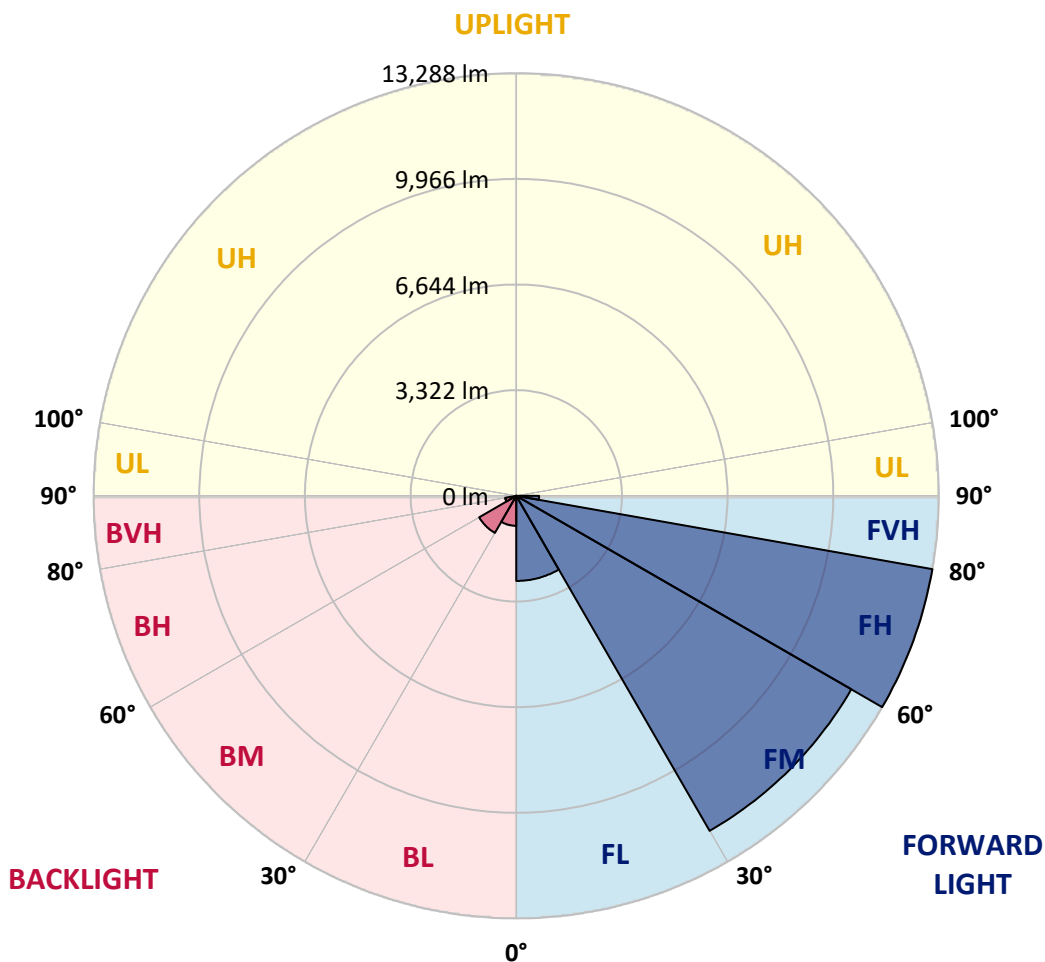


REPORT NUMBER: P383616  
 CATALOG NUMBER: GLEON-SA9A-735-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2676.6	8.5			
FM (30°-60°)	12166.1	38.6			
FH (60°-80°)	13288.1	42.2			G5
FVH (80°-90°)	717.0	2.3			G4/750
BL (0°-30°)	943.8	3.0	B2/1000		
BM (30°-60°)	1346.1	4.3	B2/2500		
BH (60°-80°)	354.1	1.1	B1/500		G1/500
BVH (80°-90°)	6.7	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-G5**  
 Type IV Short





REPORT NUMBER: P383616

CATALOG NUMBER: GLEON-SA9A-735-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5
2.5°	6148.3	6149.6	6135.2	6111.6	6081.5	6065.9	6039.7	5997.9	5953.3	5873.6	5787.2
5°	6273.9	6273.9	6255.5	6224.1	6175.7	6161.3	6111.6	6044.9	5953.3	5823.8	5678.6
7.5°	6260.7	6263.4	6238.6	6205.8	6157.4	6144.3	6084.2	6009.6	5895.8	5738.8	5553.0
10°	6192.7	6199.3	6179.7	6164.0	6119.5	6105.1	6048.8	5974.3	5860.5	5693.1	5479.8
12.5°	6123.4	6130.0	6136.5	6150.9	6123.4	6118.2	6073.7	6010.9	5902.4	5728.4	5487.7
15°	6078.9	6092.0	6139.1	6195.4	6201.9	6196.7	6167.9	6109.0	5999.2	5818.6	5543.9
17.5°	6078.9	6099.9	6198.0	6305.3	6343.2	6347.1	6322.2	6239.9	6109.0	5915.4	5596.3
20°	6130.0	6158.7	6311.8	6463.5	6526.3	6526.3	6477.9	6362.8	6209.8	6003.1	5631.6
22.5°	6260.7	6298.8	6491.0	6666.3	6733.0	6718.6	6653.2	6485.8	6314.4	6102.5	5676.0
25°	6518.5	6547.3	6747.4	6924.0	6964.5	6931.8	6849.4	6634.9	6447.8	6237.3	5757.2
27.5°	6850.8	6854.7	7061.3	7210.5	7185.6	7163.4	7060.0	6822.0	6640.2	6429.5	5897.1
30°	7215.7	7215.7	7397.5	7511.3	7435.5	7417.2	7313.9	7048.3	6886.1	6691.1	6096.0
32.5°	7568.9	7584.6	7732.4	7804.4	7719.4	7701.0	7600.3	7334.7	7213.1	7090.1	6406.0
35°	7910.3	7922.1	8062.1	8101.3	8020.3	8025.5	7953.6	7728.5	7682.8	7667.0	6873.0
37.5°	8241.3	8243.9	8386.5	8411.3	8370.8	8415.3	8421.8	8223.0	8308.0	8434.9	7531.0
40°	8543.5	8546.1	8687.3	8751.5	8820.8	8878.4	8929.3	8823.4	9104.7	9399.0	8314.5
42.5°	8785.5	8813.0	8992.1	9113.8	9296.9	9406.9	9545.5	9540.3	10053.1	10495.2	9261.6
45°	8998.7	9045.8	9295.6	9508.9	9822.8	9998.1	10215.3	10385.4	11120.5	11715.7	10220.5
47.5°	9280.0	9324.4	9609.7	9958.9	10377.5	10607.7	10967.5	11335.1	12293.9	12914.0	11157.1
50°	9676.4	9656.7	9937.9	10439.0	10976.6	11278.8	11791.6	12342.4	13458.2	13957.8	11707.9
52.5°	10098.8	10091.0	10299.0	10961.0	11683.0	12036.2	12713.9	13383.6	14571.4	14677.4	11960.3
55°	10622.2	10565.9	10741.1	11556.1	12521.6	12900.9	13698.9	14414.4	15458.3	15082.9	12087.2
57.5°	11170.2	11077.3	11244.8	12219.4	13467.3	13916.0	14789.9	15419.1	16048.3	15360.2	12085.9
60°	11736.7	11626.7	11825.6	13048.7	14642.1	15161.4	15972.4	16098.0	16599.1	15500.2	11996.9
62.5°	12210.2	12144.8	12440.4	13935.7	15954.1	16464.3	16865.9	16715.4	17063.4	15608.7	11789.0
65°	12711.2	12715.2	13192.6	14970.3	17348.6	17692.6	17726.6	17516.1	17451.9	15586.6	11085.2
67.5°	13388.9	13451.6	14248.3	16375.3	18705.1	18970.7	18968.1	18383.3	17735.8	14702.2	9524.6
70°	14105.7	14253.5	15464.9	17983.1	20186.0	20455.4	20316.8	18935.4	16699.8	11888.4	6740.9
72.5°	13985.3	14241.8	16141.2	18996.9	21249.4	21454.8	20553.6	17578.9	13199.2	6909.6	2870.1
75°	10789.6	11086.5	14800.3	17992.2	20133.6	19949.2	17659.9	13679.2	7213.1	1928.2	646.2
77.5°	5699.6	5857.9	9777.1	13706.7	15699.0	15313.2	12440.4	7588.6	2199.0	477.5	290.4
80°	2985.1	3021.8	4260.6	7776.9	9689.4	9692.0	7372.7	3333.2	906.6	244.6	194.9
82.5°	1598.5	1629.9	2251.3	3593.4	5076.9	4602.0	2823.0	1834.0	527.2	138.7	187.1
85°	384.6	391.2	1276.8	1641.8	1996.2	1425.9	838.5	1539.7	142.6	81.1	151.7
87.5°	147.8	150.4	473.5	710.3	508.9	329.7	392.5	574.3	18.4	31.4	23.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383616

CATALOG NUMBER: GLEON-SA9A-735-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5	5792.5
2.5°	5734.9	5700.9	5617.1	5511.2	5417.0	5349.0	5246.9	5180.2	5135.8	5134.5	5117.5
5°	5589.7	5520.4	5339.8	5125.3	4930.4	4755.1	4548.4	4384.9	4263.2	4243.6	4201.7
7.5°	5434.0	5320.3	5042.9	4708.0	4381.0	4048.7	3662.8	3423.4	3218.0	3119.9	3109.4
10°	5338.5	5178.9	4785.2	4301.1	3788.4	3248.1	2743.2	2393.9	2141.4	2069.5	2015.9
12.5°	5319.0	5108.3	4586.4	3919.2	3186.6	2472.4	1913.8	1542.3	1340.9	1276.8	1259.7
15°	5338.5	5075.6	4418.9	3541.2	2577.0	1754.2	1284.6	1068.8	992.8	974.6	973.3
17.5°	5350.3	5036.3	4229.2	3121.2	1985.8	1253.2	983.7	920.9	909.2	907.9	910.5
20°	5349.0	4976.1	4003.0	2653.0	1476.9	985.0	889.5	876.5	873.9	875.2	873.9
22.5°	5339.8	4905.5	3754.3	2170.2	1115.8	880.4	849.0	841.1	839.8	839.8	839.8
25°	5356.9	4849.3	3481.0	1708.5	919.6	832.0	812.4	805.8	804.5	804.5	801.9
27.5°	5418.3	4817.9	3181.4	1314.7	830.7	788.8	773.1	771.8	767.9	766.6	769.2
30°	5517.7	4817.9	2853.1	1022.9	777.0	744.3	732.6	730.0	728.7	727.4	728.7
32.5°	5693.1	4854.5	2494.6	850.3	726.0	694.7	686.7	690.7	686.7	686.7	686.7
35°	6009.6	4964.4	2119.2	741.7	672.4	646.2	638.4	643.6	641.0	641.0	639.7
37.5°	6471.4	5168.5	1741.2	676.3	625.3	597.9	587.3	595.2	592.6	592.6	591.3
40°	7033.8	5465.4	1381.4	626.6	579.5	550.7	541.6	545.5	539.0	539.0	541.6
42.5°	7728.5	5842.2	1067.5	578.2	533.7	506.3	501.0	497.1	485.3	478.8	480.1
45°	8500.3	6234.6	832.0	531.1	490.6	468.3	460.5	450.0	430.4	417.3	418.6
47.5°	9189.7	6536.8	676.3	485.3	451.3	434.3	422.5	402.9	374.1	358.5	359.8
50°	9552.1	6582.6	575.6	439.5	414.7	397.7	380.6	350.5	316.5	299.6	298.3
52.5°	9645.0	6368.1	501.0	397.7	378.0	358.5	336.2	295.7	257.7	239.4	236.8
55°	9679.0	6041.0	434.3	358.5	338.8	316.5	287.8	242.0	206.7	188.4	187.1
57.5°	9566.4	5553.0	381.9	323.2	299.6	272.1	236.8	193.6	159.6	145.2	145.2
60°	9316.6	4892.5	341.4	285.1	259.0	227.6	191.0	150.4	119.1	107.2	107.2
62.5°	8818.2	4037.0	303.5	245.9	221.1	188.4	154.4	113.8	83.7	77.2	78.5
65°	7877.6	3062.4	265.6	210.6	188.4	155.7	120.4	81.1	56.3	56.3	58.9
67.5°	6424.3	2127.0	226.3	179.2	162.2	126.9	91.6	56.3	39.2	44.4	49.7
70°	4252.8	1193.0	193.6	147.8	138.7	100.7	68.0	37.9	31.4	41.8	51.0
72.5°	1605.1	464.4	162.2	119.1	120.4	77.2	48.4	28.8	28.8	45.7	60.2
75°	447.4	227.6	116.4	87.7	94.2	56.3	35.3	24.9	27.5	52.4	70.6
77.5°	263.0	167.4	75.8	51.0	64.1	39.2	23.6	19.7	23.6	44.4	68.0
80°	211.9	89.0	44.4	26.2	35.3	22.3	15.7	11.7	6.5	17.0	35.3
82.5°	211.9	53.7	21.0	18.4	18.4	11.7	7.8	5.2	1.3	0.0	9.1
85°	142.6	22.3	13.0	11.7	9.1	3.9	2.6	1.3	0.0	0.0	0.0
87.5°	23.6	9.1	5.2	2.6	1.3	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)