

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: P322052

Luminaire Tested: **GLEON-SA8C-827-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8C-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29645 lumens  
Efficiency: N/A  
Efficacy: 66.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

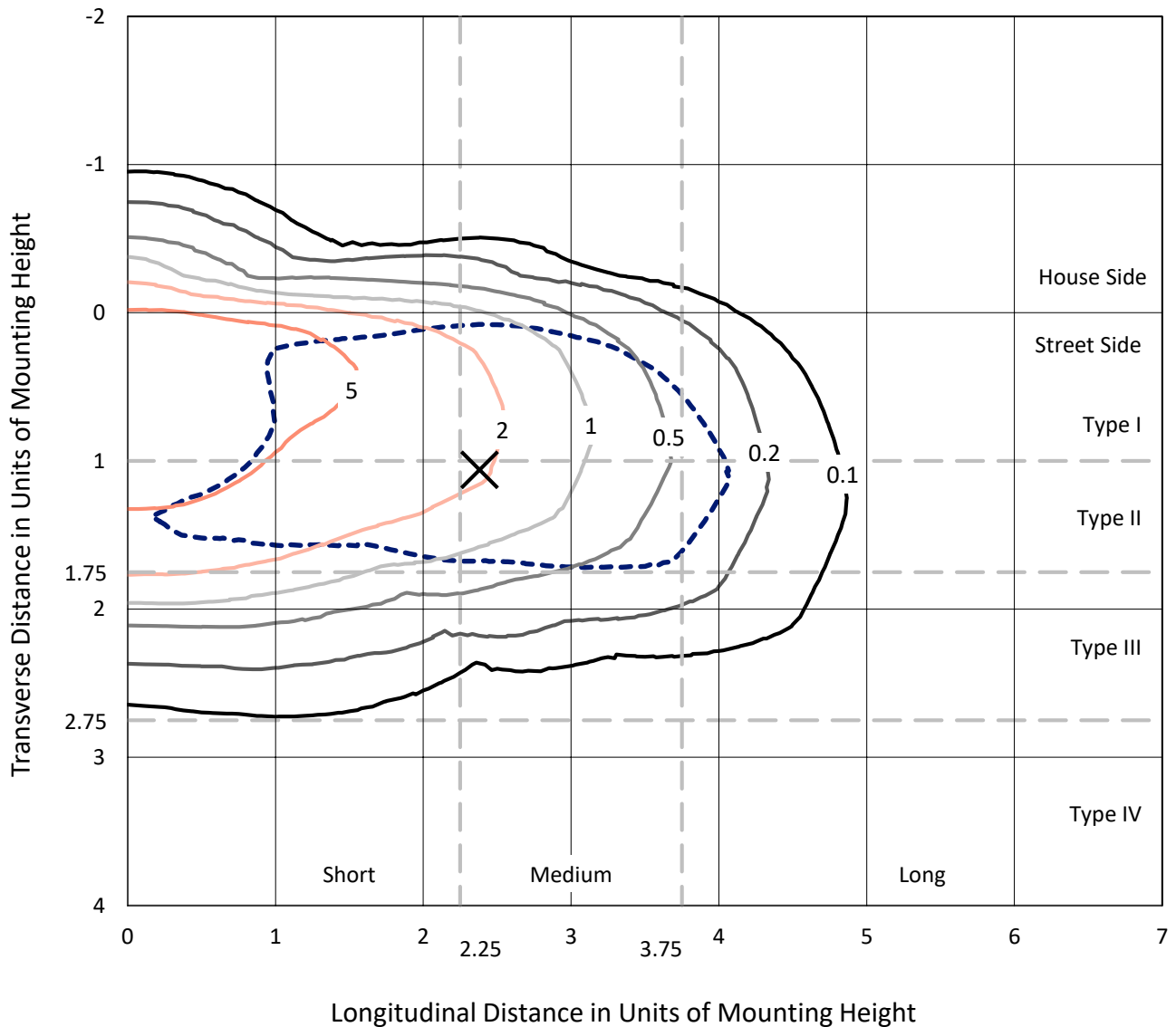
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P322052  
 CATALOG NUMBER: GLEON-SA8C-827-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

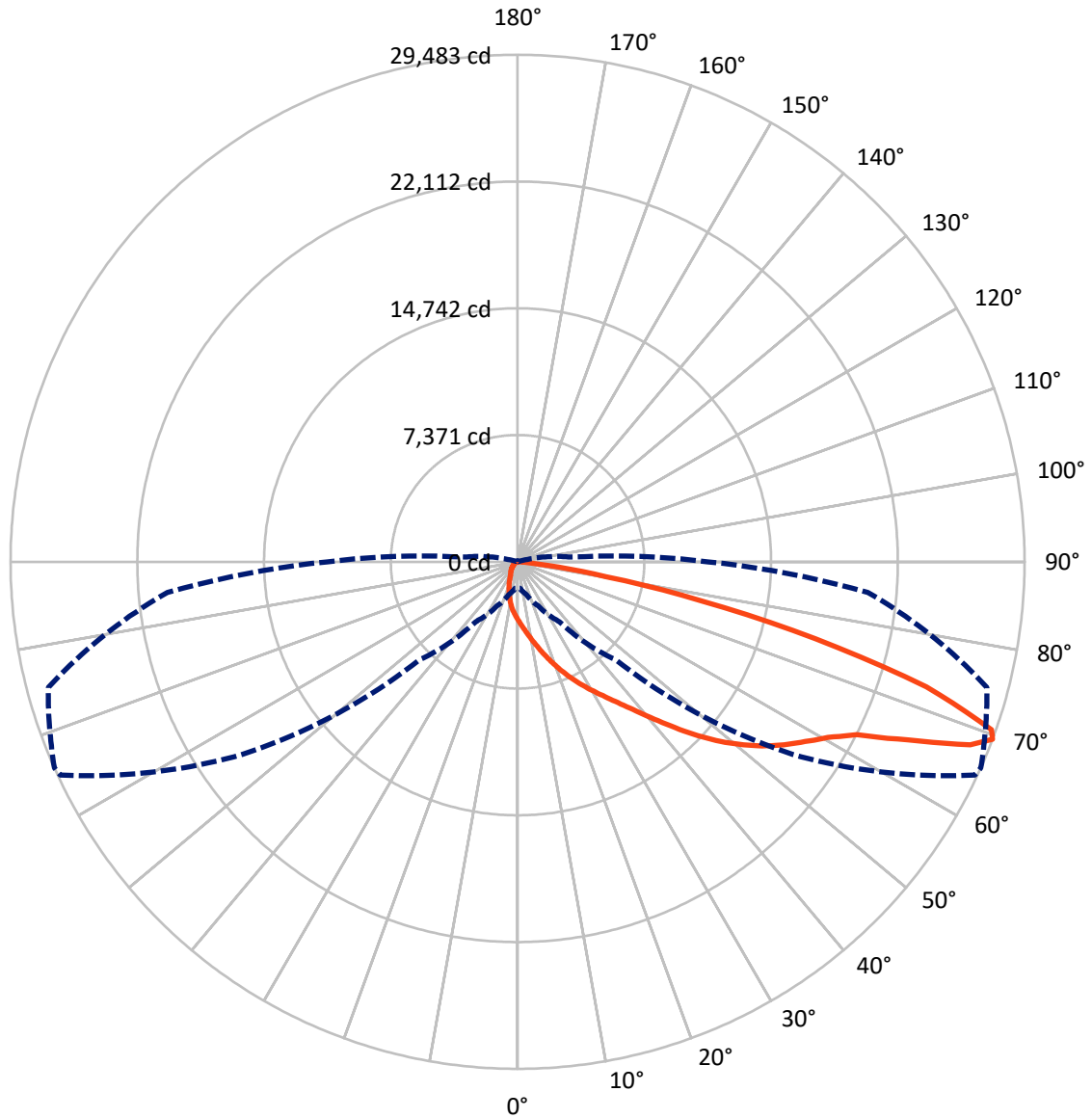
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P322052  
CATALOG NUMBER: GLEON-SA8C-827-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P322052  
 CATALOG NUMBER: GLEON-SA8C-827-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1778.3	0.0	1778.3
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	27866.7	0.0	27866.7
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	29645.0	0.0	29645.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.1	1.1
10°-20°	970.6	3.3
20°-30°	1690.1	5.7
30°-40°	2965.3	10.0
40°-50°	4963.5	16.7
50°-60°	7295.8	24.6
60°-70°	7491.0	25.3
70°-80°	3698.1	12.5
80°-90°	244.5	0.8
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°	29645.0	100.0
0°-180°	29645.0	100.0

**Coefficient of Utilization**

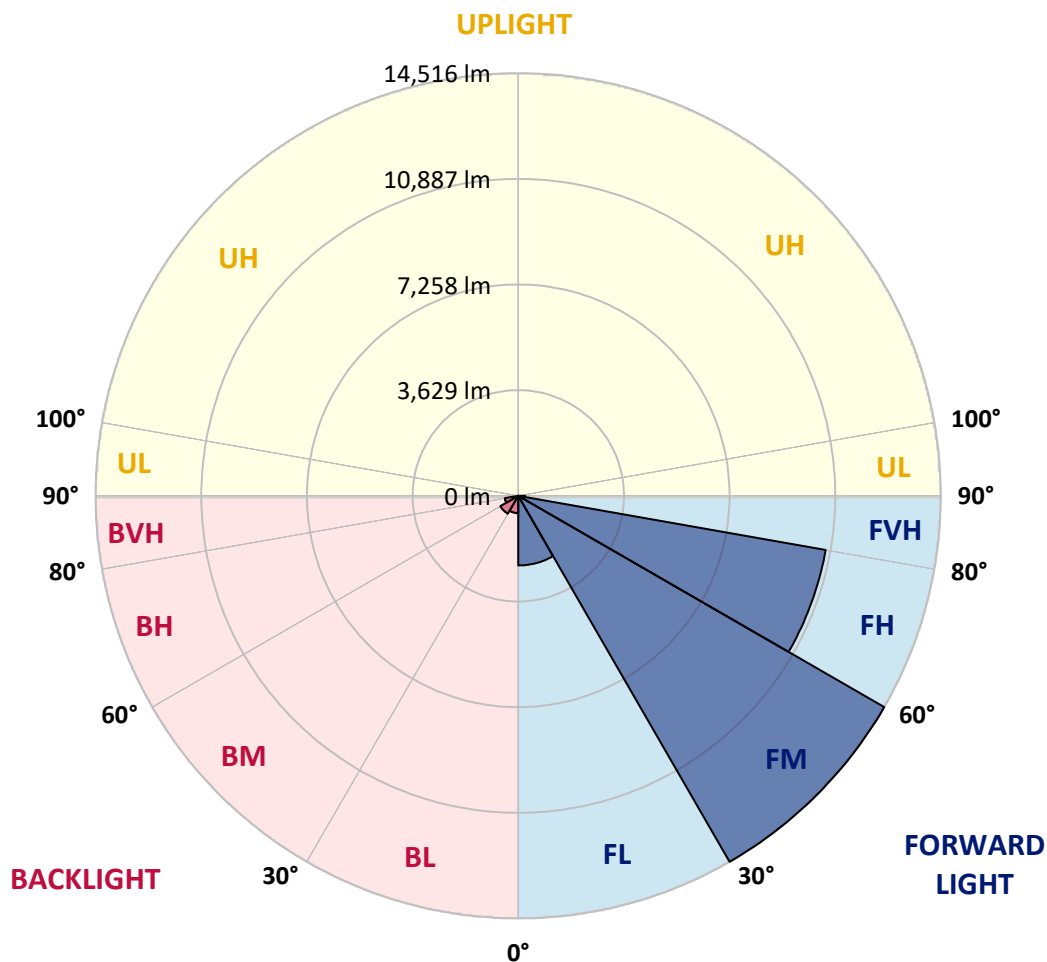


REPORT NUMBER: P322052  
 CATALOG NUMBER: GLEON-SA8C-827-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2392.1	8.1			
FM (30°-60°)	14515.6	49.0			
FH (60°-80°)	10720.4	36.2			G4/12000
FVH (80°-90°)	238.6	0.8			G3/500
BL (0°-30°)	594.7	2.0	B2/1000		
BM (30°-60°)	709.0	2.4	B1/1000		
BH (60°-80°)	468.6	1.6	B1/500		G1/500
BVH (80°-90°)	5.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Medium





REPORT NUMBER: P322052

CATALOG NUMBER: GLEON-SA8C-827-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7
2.5°	3970.7	3953.8	3946.8	3915.8	3862.3	3821.5	3742.6	3651.1	3634.2	3545.5	3437.1
5°	4486.1	4472.0	4462.1	4418.5	4363.6	4260.8	4117.1	3946.8	3914.4	3745.4	3528.6
7.5°	4845.1	4870.5	4870.5	4842.3	4773.3	4695.9	4519.9	4287.5	4246.7	3987.6	3651.1
10°	5054.9	5085.9	5109.8	5133.8	5123.9	5092.9	4926.8	4664.9	4615.6	4272.0	3793.3
12.5°	5074.6	5105.6	5173.2	5273.2	5370.3	5440.7	5336.5	5083.1	5026.8	4601.5	3962.3
15°	4964.8	4997.2	5101.4	5295.7	5530.8	5736.4	5770.2	5546.3	5488.6	4994.4	4173.5
17.5°	4773.3	4794.4	4943.7	5212.6	5581.5	5958.9	6163.1	6043.4	5989.9	5443.5	4408.6
20°	4631.1	4646.6	4777.5	5066.2	5550.5	6098.3	6534.8	6571.4	6515.1	5925.1	4663.5
22.5°	4874.7	4902.8	4907.1	5043.6	5466.1	6167.3	6861.4	7091.0	7048.7	6436.2	4914.1
25°	5540.7	5573.1	5466.1	5381.6	5537.9	6198.3	7141.6	7623.2	7589.4	6986.8	5166.1
27.5°	6420.7	6454.5	6316.5	6064.5	5913.8	6315.1	7390.9	8163.9	8162.5	7569.7	5437.9
30°	7285.3	7319.1	7178.3	6926.2	6579.8	6646.0	7606.3	8729.9	8738.4	8170.9	5726.6
32.5°	8192.1	8234.3	8089.3	7765.4	7403.5	7217.7	7909.0	9298.8	9346.7	8867.9	6051.8
35°	9222.8	9228.4	9024.2	8684.9	8268.1	7982.3	8394.8	9936.6	10050.7	9731.1	6464.4
37.5°	10233.7	10274.6	10107.0	9571.9	9189.0	8865.1	9117.1	10733.6	10895.5	10785.7	7003.7
40°	10982.8	11068.7	11044.8	10467.5	10104.2	9873.3	10014.1	11681.2	11886.8	12013.5	7683.7
42.5°	11453.1	11517.9	11627.7	11279.9	10950.4	10988.4	11072.9	12785.1	13038.6	13413.1	8465.2
45°	11992.4	12023.4	12114.9	11961.4	11738.9	12121.9	12196.6	14028.4	14294.6	14918.3	9332.6
47.5°	12651.4	12724.6	12749.9	12609.1	12507.7	13124.5	13279.4	15159.1	15532.2	16530.5	10250.6
50°	13490.6	13510.3	13553.9	13462.4	13361.0	13986.2	14250.9	16346.1	16685.4	18148.4	11156.0
52.5°	14311.5	14381.9	14533.9	14476.2	14435.4	14719.8	15116.9	17416.2	17795.0	19497.3	12060.0
55°	14548.0	14608.6	15133.8	15492.8	15825.1	15623.8	15944.8	18375.1	18784.8	20702.6	12930.2
57.5°	13603.2	13725.7	14635.3	15570.3	16948.7	17029.0	17082.5	19359.3	19726.8	21626.3	13835.5
60°	11215.1	11239.1	12731.6	14335.4	16762.9	18255.4	18744.0	20416.8	20725.1	22486.6	14919.7
62.5°	7133.2	7376.8	9014.4	11278.5	14797.2	18078.0	20753.3	22016.3	22129.0	23518.7	16474.2
65°	3397.6	3555.3	4735.3	6968.5	10718.1	15806.8	22140.2	24909.9	24960.6	25564.6	18551.1
67.5°	1881.2	1957.2	2519.0	3751.1	6265.8	11178.5	21579.8	28337.1	28385.0	27654.2	20373.1
69°	1471.4	1536.2	1978.3	2827.4	4248.1	8034.4	19528.3	29341.0	29483.2	28252.6	20437.9
70°	1248.9	1312.3	1703.7	2388.1	3415.9	6208.1	17382.4	29091.8	29242.5	28196.3	19954.9
72.5°	764.6	801.2	1134.9	1681.2	2289.5	3123.1	10719.5	24602.9	24857.8	25864.5	17150.1
75°	515.3	535.1	709.7	1160.2	1637.6	1608.0	5568.9	17341.6	17893.5	20119.7	12666.8
77.5°	368.9	387.2	475.9	750.5	1147.6	1061.7	2521.8	10777.2	10895.5	12067.0	6907.9
80°	209.8	226.7	336.5	446.4	778.7	708.3	1002.5	5147.8	5207.0	5174.6	2306.4
82.5°	109.8	123.9	184.5	294.3	499.9	463.2	416.8	1723.5	1731.9	1440.4	505.5
85°	21.1	25.3	91.5	201.4	257.7	201.4	170.4	404.1	412.6	364.7	125.3
87.5°	0.0	1.4	36.6	45.1	50.7	52.1	54.9	78.9	84.5	114.1	33.8
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: P322052

CATALOG NUMBER: GLEON-SA8C-827-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7	3373.7
2.5°	3389.2	3338.5	3241.3	3128.7	3041.4	2955.5	2887.9	2817.5	2792.2	2779.5	2778.1
5°	3423.0	3316.0	3110.4	2899.2	2726.0	2562.7	2445.8	2334.6	2282.5	2258.5	2248.7
7.5°	3479.3	3307.5	2976.6	2654.2	2405.0	2200.8	2038.9	1917.8	1857.2	1831.9	1822.0
10°	3545.5	3296.3	2820.3	2395.1	2076.9	1865.7	1705.2	1585.5	1519.3	1491.1	1477.0
12.5°	3622.9	3276.5	2640.1	2133.2	1796.7	1585.5	1391.2	1243.3	1167.3	1134.9	1119.4
15°	3718.7	3256.8	2451.4	1886.8	1550.3	1292.6	1080.0	980.0	964.5	958.9	960.3
17.5°	3813.0	3225.9	2245.8	1643.2	1291.2	1009.6	901.2	895.5	898.3	898.3	898.3
20°	3897.5	3155.4	2022.0	1434.8	1044.8	851.9	829.3	819.5	812.4	806.8	799.8
22.5°	3963.7	3061.1	1806.5	1227.8	853.3	780.1	744.9	713.9	688.5	671.6	663.2
25°	4008.7	2935.8	1609.4	1029.3	767.4	709.7	646.3	594.2	554.8	530.8	521.0
27.5°	4042.5	2800.6	1433.4	861.7	708.3	628.0	544.9	483.0	442.1	421.0	412.6
30°	4066.5	2647.1	1278.5	757.5	642.1	542.1	453.4	392.8	363.3	352.0	346.4
32.5°	4089.0	2476.8	1132.1	708.3	580.1	463.2	380.2	333.7	315.4	301.3	297.1
35°	4145.3	2319.1	992.7	656.2	516.8	395.7	326.7	292.9	274.6	266.1	263.3
37.5°	4279.1	2202.2	858.9	602.6	453.4	342.2	285.8	261.9	245.0	236.6	233.7
40°	4494.5	2143.1	746.3	544.9	391.4	301.3	259.1	236.6	218.2	205.6	202.8
42.5°	4811.3	2151.5	667.4	487.2	342.2	268.9	233.7	207.0	187.3	176.0	173.2
45°	5195.7	2213.5	612.5	430.9	301.3	243.6	205.6	177.4	159.1	149.3	146.4
47.5°	5612.5	2313.4	567.4	380.2	268.9	219.7	177.4	147.8	132.4	123.9	122.5
50°	6051.8	2410.6	521.0	330.9	240.8	195.7	149.3	122.5	109.8	102.8	100.0
52.5°	6496.8	2523.2	478.7	285.8	216.8	167.6	123.9	100.0	90.1	84.5	81.7
55°	6975.5	2607.7	437.9	250.6	192.9	142.2	102.8	83.1	74.6	67.6	66.2
57.5°	7538.7	2738.7	395.7	216.8	164.7	118.3	84.5	66.2	59.1	52.1	50.7
60°	8299.1	2892.1	350.6	191.5	135.2	97.2	69.0	53.5	45.1	39.4	38.0
62.5°	9301.6	3062.5	294.3	167.6	109.8	78.9	54.9	42.2	32.4	25.3	25.3
65°	10573.1	3339.9	240.8	140.8	90.1	64.8	42.2	31.0	18.3	11.3	11.3
67.5°	11315.1	3387.8	194.3	115.5	73.2	54.9	35.2	21.1	5.6	1.4	0.0
69°	11077.2	3110.4	164.7	98.6	63.4	52.1	32.4	15.5	2.8	0.0	0.0
70°	10629.4	2844.3	145.0	87.3	57.7	49.3	31.0	11.3	2.8	0.0	0.0
72.5°	8783.4	2024.8	109.8	64.8	42.2	43.6	28.2	7.0	2.8	0.0	0.0
75°	6398.2	1230.6	78.9	45.1	26.8	32.4	19.7	2.8	1.4	0.0	0.0
77.5°	3559.6	580.1	49.3	25.3	16.9	19.7	9.9	0.0	0.0	0.0	0.0
80°	1156.0	157.7	22.5	14.1	9.9	11.3	4.2	0.0	0.0	0.0	0.0
82.5°	214.0	45.1	12.7	7.0	2.8	2.8	0.0	0.0	0.0	0.0	0.0
85°	46.5	18.3	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	5.6	1.4	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)