

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: P323314

Luminaire Tested: **GLEON-SA0A-827-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323314  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0A-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28087 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

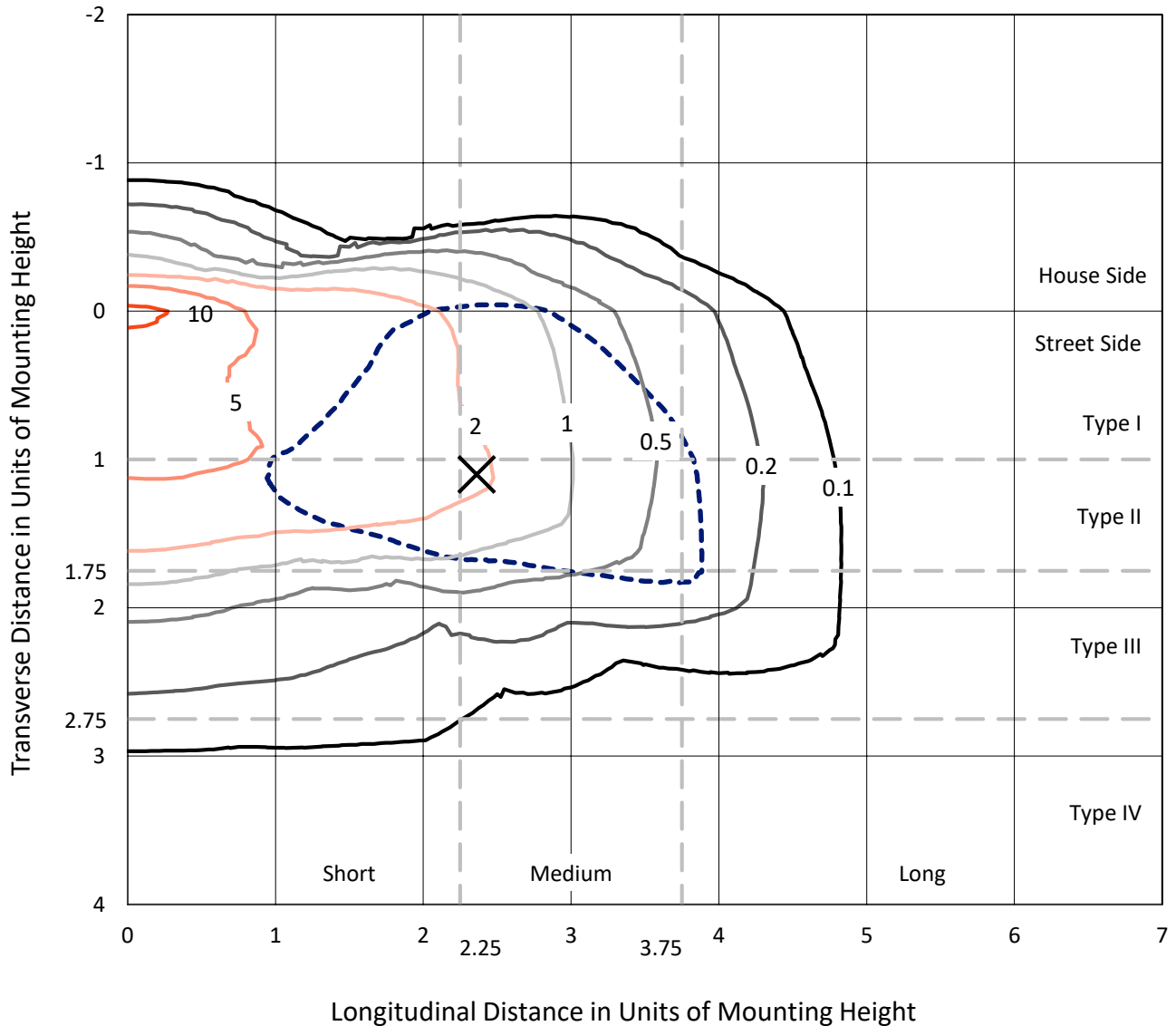
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P323314  
 CATALOG NUMBER: GLEON-SA0A-827-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

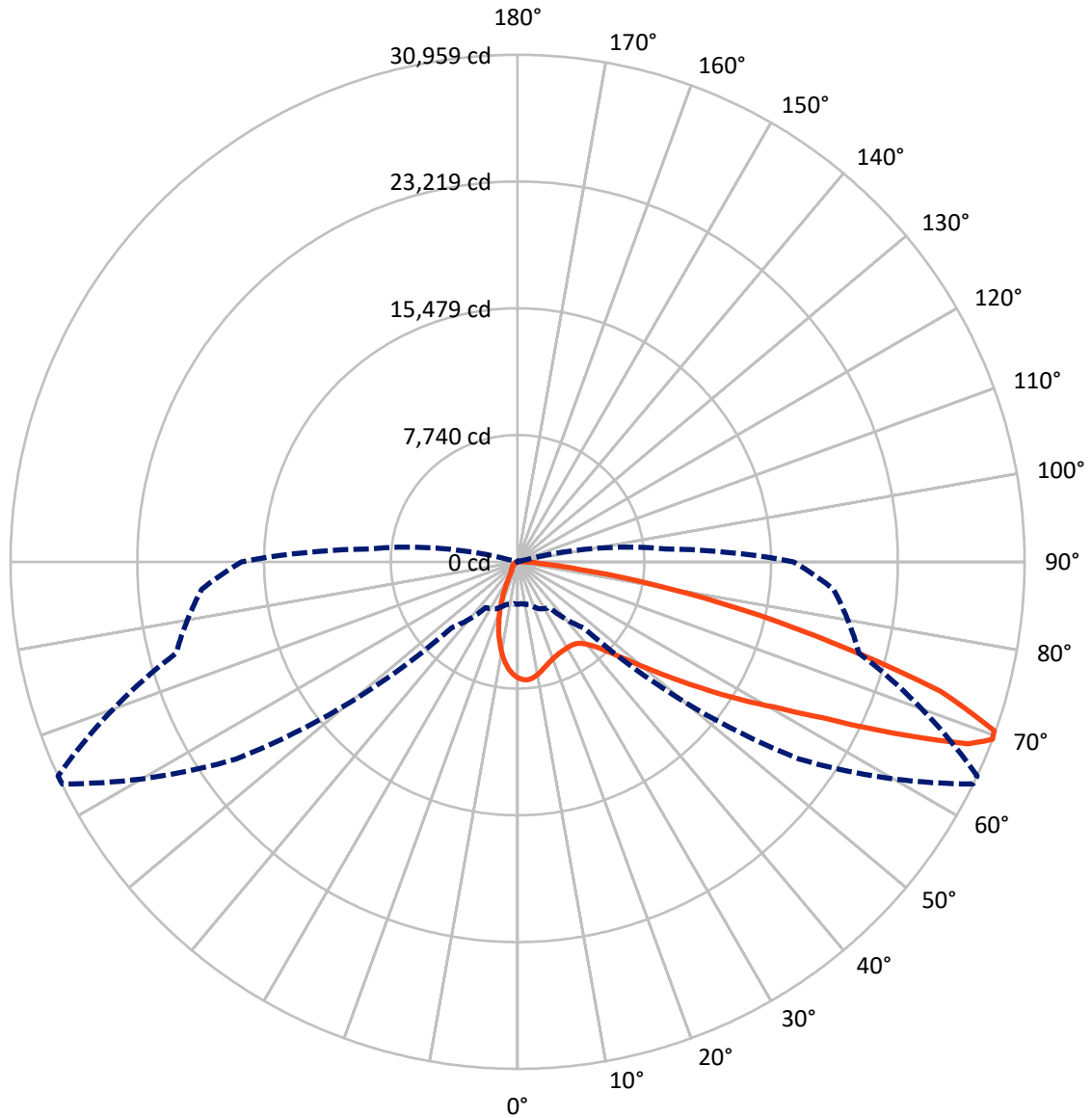
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Medium - N/A

REPORT NUMBER: P323314  
CATALOG NUMBER: GLEON-SA0A-827-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P323314  
 CATALOG NUMBER: GLEON-SA0A-827-U-SL2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3310.8	0.0	3310.8
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	24776.2	0.0	24776.2
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	28087.0	0.0	28087.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.5	2.1
10°-20°	1299.2	4.6
20°-30°	1799.5	6.4
30°-40°	2509.0	8.9
40°-50°	3899.9	13.9
50°-60°	6260.8	22.3
60°-70°	7082.0	25.2
70°-80°	4159.3	14.8
80°-90°	483.8	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°	28087.0	100.0
0°-180°	28087.0	100.0

**Coefficient of Utilization**

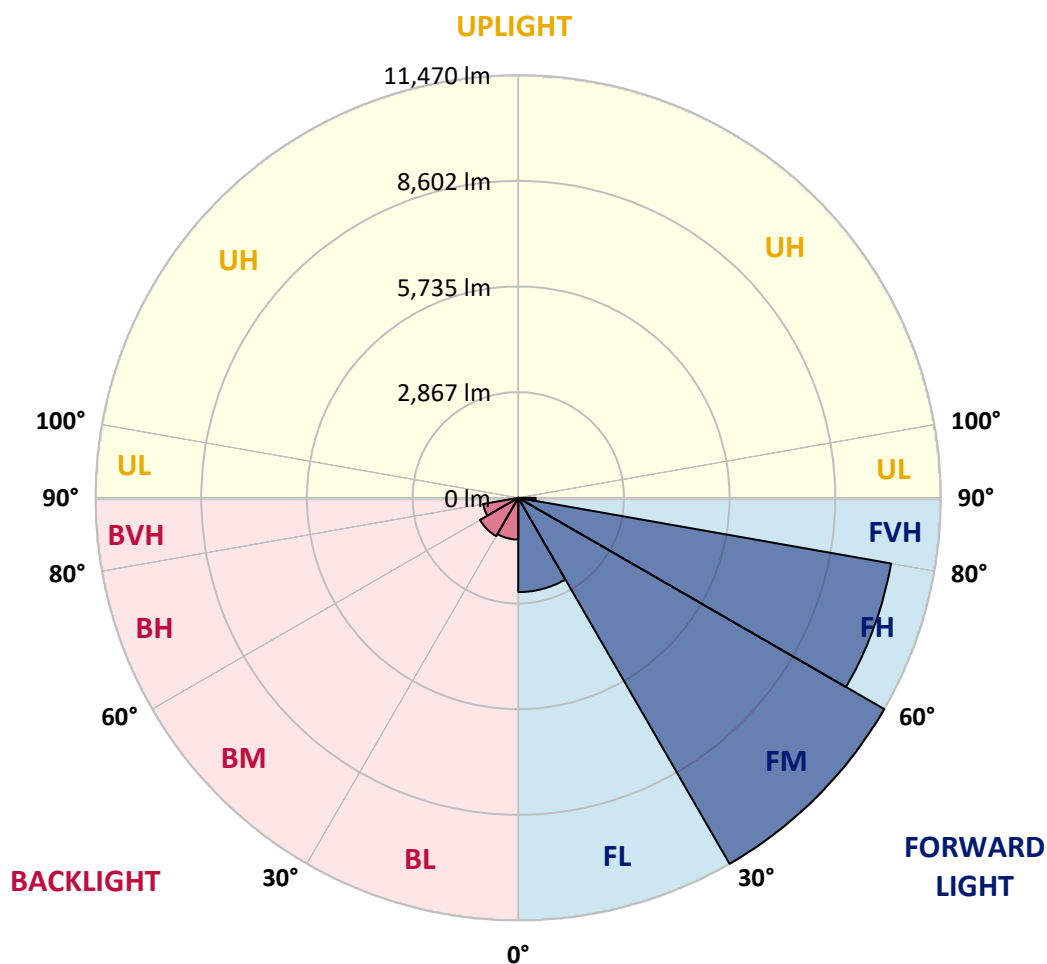


REPORT NUMBER: P323314  
 CATALOG NUMBER: GLEON-SA0A-827-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2559.4	9.1			
FM (30°-60°)	11469.9	40.8			
FH (60°-80°)	10273.9	36.6			G4/12000
FVH (80°-90°)	473.0	1.7			G3/500
BL (0°-30°)	1132.8	4.0	B3/2500		
BM (30°-60°)	1199.7	4.3	B2/2500		
BH (60°-80°)	967.3	3.4	B2/1000		G2/1000
BVH (80°-90°)	10.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





REPORT NUMBER: P323314

CATALOG NUMBER: GLEON-SA0A-827-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7097.6	7097.6	7097.6	7097.6	7097.6	7097.6	7097.6	7097.6	7097.6	7097.6	7097.6
2.5°	7160.6	7142.8	7157.1	7188.0	7203.4	7203.4	7215.3	7201.0	7205.8	7171.3	7121.4
5°	6712.6	6685.2	6724.4	6811.2	6918.2	7009.7	7145.2	7216.5	7223.6	7224.8	7166.6
7.5°	6230.0	6205.1	6263.3	6365.5	6503.4	6673.3	6909.9	7116.6	7128.5	7240.3	7197.5
10°	5837.8	5820.0	5887.8	5997.1	6158.7	6348.9	6638.9	6926.5	6961.0	7208.2	7192.7
12.5°	5526.5	5512.2	5576.4	5702.4	5867.6	6077.9	6381.0	6714.9	6761.3	7135.7	7168.9
15°	5299.5	5297.1	5350.6	5471.8	5654.8	5850.9	6161.1	6518.8	6572.3	7057.2	7165.4
17.5°	5180.6	5184.2	5223.4	5326.8	5483.7	5678.6	5975.7	6353.6	6411.9	6987.1	7183.2
20°	5168.7	5172.3	5193.7	5251.9	5379.1	5551.4	5824.8	6214.6	6275.2	6934.8	7211.7
22.5°	5273.3	5270.9	5276.9	5270.9	5342.2	5473.0	5724.9	6107.6	6177.7	6900.3	7234.3
25°	5474.2	5470.6	5468.2	5424.2	5376.7	5446.8	5683.3	6047.0	6113.6	6875.4	7247.4
27.5°	5753.5	5751.1	5747.5	5675.0	5532.4	5488.4	5688.1	6024.4	6080.3	6855.2	7245.0
30°	6120.7	6137.3	6132.6	6031.6	5809.3	5615.6	5738.0	6012.5	6061.3	6816.0	7220.0
32.5°	6552.1	6585.4	6611.5	6503.4	6225.3	5867.6	5853.3	6025.6	6061.3	6786.3	7174.9
35°	7000.2	7043.0	7139.2	7101.2	6735.1	6246.7	6051.8	6104.1	6133.8	6802.9	7153.5
37.5°	7441.1	7492.2	7701.4	7811.9	7403.1	6748.2	6360.8	6297.8	6313.2	6903.9	7177.3
40°	7953.3	8030.6	8347.9	8526.2	8200.5	7419.7	6823.1	6630.6	6636.5	7126.2	7287.8
42.5°	8626.0	8705.7	9049.1	9328.4	9099.0	8268.3	7450.6	7139.2	7133.3	7542.1	7548.1
45°	9446.1	9529.3	9884.6	10194.8	10091.4	9273.8	8254.0	7882.0	7874.9	8198.2	8041.3
47.5°	10375.5	10457.5	10774.8	11094.5	11206.2	10448.0	9277.3	8895.8	8879.2	9109.7	8803.1
50°	11173.0	11226.4	11518.8	11949.0	12452.9	11890.8	10550.2	10182.9	10165.1	10320.8	9921.5
52.5°	11462.9	11493.8	11791.0	12393.5	13650.9	13844.7	12222.4	11749.4	11736.3	11804.0	11410.6
55°	10875.8	10931.7	11296.6	12190.3	14299.9	16052.9	14333.1	13689.0	13590.3	13444.1	12967.6
57.5°	9276.1	9365.3	9757.5	10945.9	13996.8	17804.7	17435.1	15882.9	15737.9	14844.2	14233.3
60°	6950.3	7059.6	7385.2	8667.6	12379.3	18428.7	20824.6	18327.6	18000.8	15959.0	15396.8
62.5°	4769.4	4824.1	5045.1	5880.6	9116.9	17406.6	23660.4	21601.9	21005.3	17171.2	16655.4
65°	3642.7	3661.7	3752.0	4039.7	5429.0	14139.4	24788.2	25922.1	25200.6	18621.2	17961.6
67.5°	2935.6	2920.1	3044.9	3456.1	3635.6	8626.0	23472.6	30009.3	29671.7	20559.6	19276.0
69°	2588.5	2567.1	2694.3	3172.1	3414.5	5702.4	20983.9	30937.5	30958.9	21582.9	19366.4
70°	2329.4	2343.7	2469.7	3003.3	3339.6	4475.8	18606.9	30701.0	30869.7	21965.6	18824.4
72.5°	1555.7	1593.8	1846.9	2493.4	3211.3	3387.2	11234.8	26345.2	26994.1	21103.9	16150.3
75°	877.1	905.6	1206.3	1880.2	3025.9	3225.5	5934.1	19409.2	20036.7	17647.8	12454.1
77.5°	430.2	445.7	682.2	1213.4	2530.3	3073.4	3365.8	13183.9	13900.5	11518.8	7044.2
80°	181.8	190.2	341.1	748.7	1808.9	2933.2	2499.4	8113.8	8202.9	4512.7	1876.6
82.5°	70.1	72.5	143.8	467.1	1149.3	2286.6	2090.5	3847.1	3754.4	849.8	427.9
85°	8.3	9.5	52.3	280.5	639.4	1176.6	1698.3	1657.9	1534.3	168.8	219.9
87.5°	0.0	0.0	3.6	85.6	190.2	551.5	883.0	688.1	620.4	54.7	114.1
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: P323314

CATALOG NUMBER: GLEON-SA0A-827-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7097.6	7097.6	7097.6	7097.6	7097.6	7097.6	7097.6	7097.6	7097.6	7097.6	7097.6
2.5°	7079.8	7067.9	7003.7	6911.0	6823.1	6713.8	6609.2	6546.2	6496.3	6463.0	6502.2
5°	7098.8	7046.5	6851.6	6602.0	6357.2	6081.5	5824.8	5607.3	5521.7	5426.6	5469.4
7.5°	7092.9	6994.2	6643.6	6199.1	5749.9	5285.2	4845.5	4506.7	4330.8	4158.5	4202.5
10°	7063.2	6896.8	6365.5	5707.1	5034.4	4366.5	3742.5	3268.3	3003.3	2763.2	2797.7
12.5°	6997.8	6766.0	6037.5	5143.8	4244.1	3363.4	2632.5	2025.2	1699.5	1555.7	1573.6
15°	6958.6	6638.9	5690.5	4573.3	3400.3	2342.5	1609.2	1196.8	1048.2	1000.7	1006.6
17.5°	6939.6	6516.5	5331.5	3920.8	2537.4	1491.5	1039.9	917.5	885.4	877.1	879.5
20°	6920.5	6392.9	4961.9	3275.5	1748.3	1003.1	854.5	818.9	807.0	796.3	798.7
22.5°	6888.5	6274.0	4565.0	2621.8	1179.0	814.1	770.1	735.7	710.7	697.6	700.0
25°	6849.2	6149.2	4159.7	1952.7	860.5	726.2	684.6	635.8	606.1	582.4	583.5
27.5°	6786.3	5995.9	3741.4	1421.4	722.6	650.1	594.2	540.8	490.8	463.5	463.5
30°	6698.3	5822.4	3276.7	1017.3	647.7	575.2	507.5	440.9	387.4	362.5	360.1
32.5°	6600.8	5641.7	2807.2	771.3	588.3	505.1	427.9	357.7	310.2	290.0	288.8
35°	6517.7	5446.8	2338.9	646.5	528.9	437.4	353.0	293.6	255.5	238.9	237.7
37.5°	6464.2	5251.9	1882.6	577.6	475.4	374.4	295.9	242.5	215.1	202.0	200.9
40°	6455.9	5106.9	1465.4	525.3	425.5	318.5	247.2	205.6	180.6	166.4	165.2
42.5°	6564.0	5023.7	1124.3	481.3	374.4	269.8	210.4	175.9	149.7	135.5	134.3
45°	6848.1	5049.9	865.2	442.1	323.3	228.2	178.3	146.2	122.4	111.7	109.3
47.5°	7366.2	5230.5	688.1	402.9	274.5	193.7	152.1	121.2	101.0	90.3	89.1
50°	8288.5	5654.8	575.2	360.1	229.4	165.2	126.0	98.6	82.0	72.5	71.3
52.5°	9512.6	6410.7	513.4	318.5	190.2	140.2	103.4	78.4	64.2	57.0	55.9
55°	10862.8	7325.8	473.0	273.4	155.7	116.5	82.0	61.8	49.9	44.0	41.6
57.5°	12180.8	8118.5	435.0	229.4	129.5	95.1	65.4	48.7	39.2	33.3	32.1
60°	13391.9	8847.1	391.0	184.2	105.8	74.9	51.1	38.0	30.9	25.0	25.0
62.5°	14688.5	9410.4	330.4	143.8	86.8	57.0	41.6	34.5	25.0	21.4	20.2
65°	16062.4	9828.8	259.1	111.7	67.7	42.8	34.5	35.7	20.2	15.5	14.3
67.5°	17077.3	9745.6	191.3	87.9	52.3	33.3	33.3	38.0	17.8	11.9	10.7
69°	16853.9	9069.3	160.4	76.1	45.2	28.5	30.9	38.0	16.6	10.7	9.5
70°	16206.2	8320.6	141.4	67.7	40.4	26.1	29.7	36.8	15.5	10.7	9.5
72.5°	13496.4	6266.9	110.5	51.1	32.1	21.4	25.0	32.1	15.5	10.7	8.3
75°	10152.0	4011.1	84.4	36.8	23.8	16.6	19.0	23.8	15.5	9.5	8.3
77.5°	5524.1	1446.4	60.6	25.0	16.6	13.1	13.1	17.8	14.3	7.1	4.8
80°	1420.2	363.7	38.0	16.6	13.1	9.5	8.3	11.9	8.3	1.2	0.0
82.5°	350.6	82.0	20.2	11.9	9.5	3.6	3.6	5.9	3.6	0.0	0.0
85°	192.5	40.4	13.1	8.3	4.8	0.0	0.0	1.2	0.0	0.0	0.0
87.5°	98.6	11.9	3.6	2.4	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)