

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: P457314

Luminaire Tested: **GALN-SA8C-827-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457314  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33413 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

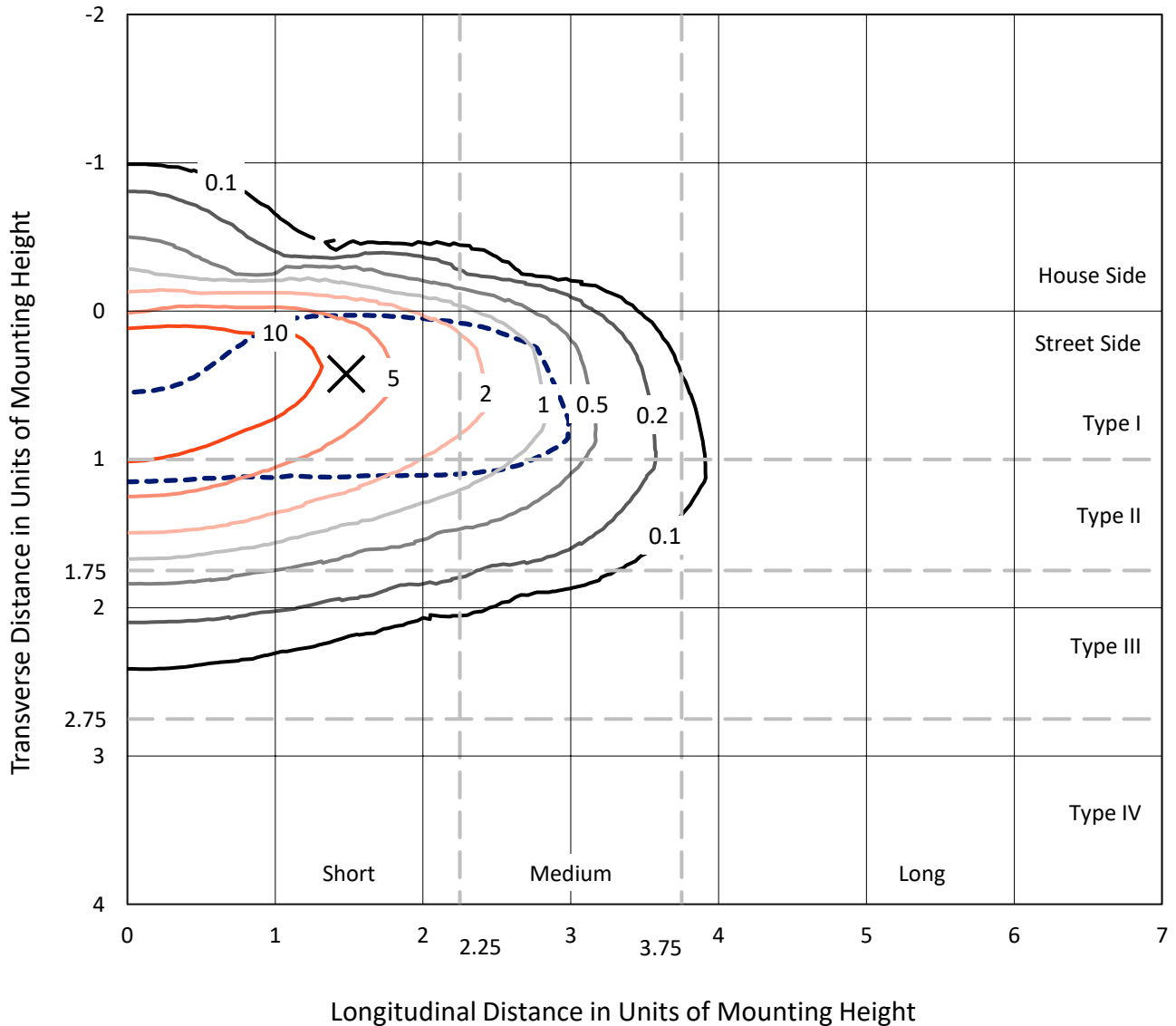
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

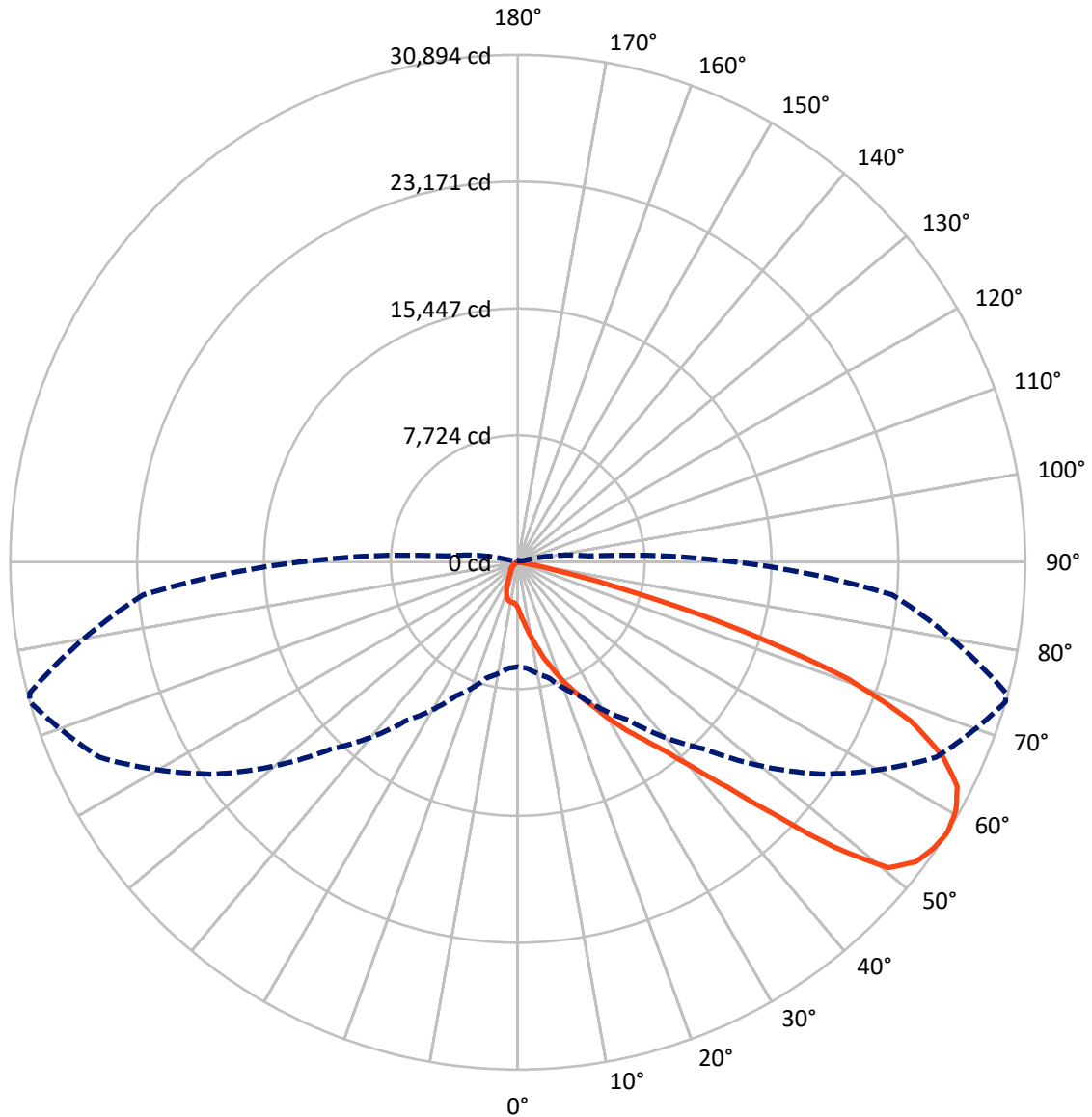
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1927.1	0.0	1927.1
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	31485.9	0.0	31485.9
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	33413.0	0.0	33413.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.8	1.0
10°-20°	1331.3	4.0
20°-30°	2848.7	8.5
30°-40°	5235.9	15.7
40°-50°	8026.7	24.0
50°-60°	8491.1	25.4
60°-70°	5544.9	16.6
70°-80°	1515.1	4.5
80°-90°	81.6	0.2
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°	33413.0	100.0
0°-180°	33413.0	100.0

**Coefficient of Utilization**



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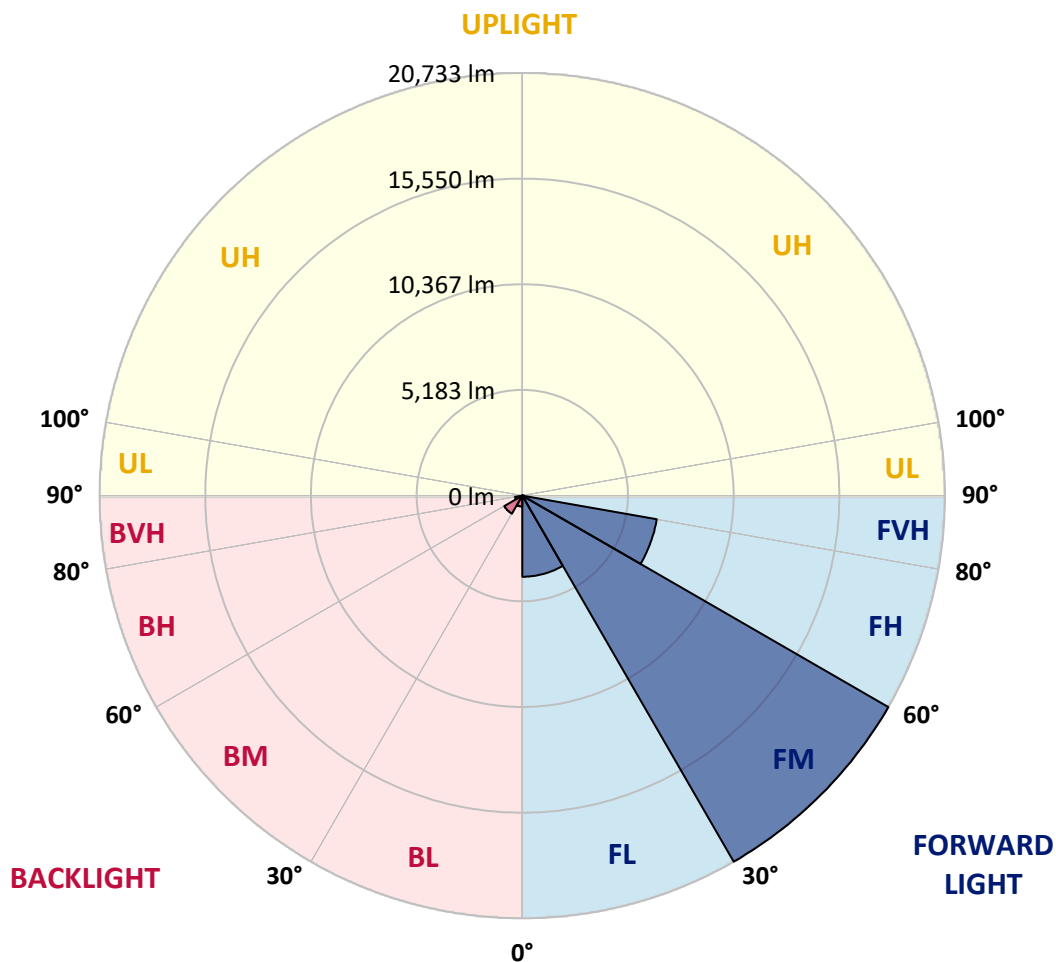
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3979.4	11.9			
FM	(30°-60°)	20733.4	62.1			
FH	(60°-80°)	6698.2	20.0			G3/7500
FVH	(80°-90°)	74.8	0.2			G1/100
BL	(0°-30°)	538.3	1.6	B2/1000		
BM	(30°-60°)	1020.3	3.1	B2/2500		
BH	(60°-80°)	361.8	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2798.3	2798.3	2798.3	2798.3	2798.3	2798.3	2798.3	2798.3	2798.3	2798.3	2798.3
2.5°	4094.8	4057.9	3984.1	3958.7	3850.3	3681.8	3534.2	3335.8	3178.9	3162.8	2973.6
5°	5483.6	5400.5	5365.9	5199.8	4939.1	4694.6	4274.7	3956.4	3589.6	3561.9	3181.2
7.5°	6821.6	6706.2	6671.6	6514.7	6210.2	5825.0	5280.5	4701.5	4120.2	4067.1	3460.4
10°	7790.5	7806.6	7744.3	7640.5	7393.7	7001.5	6330.2	5538.9	4710.7	4643.8	3774.1
12.5°	8484.9	8482.5	8494.1	8491.8	8360.3	8062.7	7356.8	6445.5	5361.3	5229.8	4134.0
15°	8937.0	8943.9	8978.5	9098.5	9112.3	8927.8	8339.5	7312.9	6115.6	5951.9	4523.9
17.5°	9393.8	9442.2	9497.6	9610.6	9712.1	9638.3	9223.1	8217.3	6798.5	6676.2	4941.4
20°	10148.1	10215.0	10182.7	10252.0	10305.0	10311.9	9991.3	9052.4	7626.7	7421.4	5419.0
22.5°	11354.7	11352.4	11269.3	11144.7	11040.9	11036.3	10745.6	9910.5	8378.7	8180.3	5898.8
25°	12879.5	12886.5	12725.0	12369.7	12111.3	11795.3	11460.8	10662.6	9183.9	8939.3	6404.0
27.5°	14628.2	14584.4	14339.8	13850.8	13338.6	12798.8	12316.7	11536.9	10037.4	9834.4	6983.1
30°	16199.2	16183.1	15897.0	15299.5	14625.9	14083.8	13384.8	12632.7	11142.4	10893.3	7631.3
32.5°	17661.8	17684.9	17288.1	16669.8	16019.3	15394.1	14655.9	13680.0	12226.7	11873.7	8337.2
35°	18803.7	18826.8	18416.2	17901.7	17232.7	16713.6	16010.0	14796.6	13297.1	12999.5	9149.2
37.5°	19412.7	19442.7	19205.1	18817.6	18400.0	18139.3	17484.2	16233.8	14598.2	14418.3	10108.9
40°	19528.1	19562.7	19458.9	19355.1	19332.0	19518.9	19327.4	17927.1	16402.2	16120.8	11539.2
42.5°	19182.0	19228.2	19274.3	19505.0	19975.6	20660.8	21327.5	20224.8	18725.3	18346.9	13287.9
45°	18273.1	18268.5	18450.8	19048.2	20102.5	21565.1	23417.6	23101.5	21890.4	21440.5	15758.6
47.5°	16718.3	16695.2	17089.7	17940.9	19583.5	21731.2	25122.4	26594.2	25929.8	25514.5	18413.8
50°	14349.0	14462.1	15082.6	16270.7	18293.9	21228.3	25648.3	28885.0	29244.8	28804.2	20559.3
52.5°	11573.8	11569.2	12542.7	14155.3	16383.8	20121.0	25281.5	29300.2	30322.2	29985.4	21615.9
55°	8565.6	8625.6	9638.3	11264.7	13903.8	18100.1	24084.3	28873.4	30732.8	30495.2	22312.5
57°	6371.7	6477.8	7289.9	9010.8	11744.5	16100.0	22490.2	28109.8	30894.3	30765.1	22891.6
57.5°	5947.2	5951.9	6743.1	8307.2	11112.4	15331.8	22033.4	27791.5	30889.7	30818.2	22986.2
60°	3661.1	3776.4	4323.2	5615.0	8134.2	11966.0	18972.1	25962.1	30649.8	30753.6	23389.9
62.5°	2191.6	2240.0	2595.3	3384.3	5243.6	8734.0	15525.6	23620.6	30024.6	30340.6	23362.2
65°	1409.5	1421.1	1582.5	2048.5	3278.1	5903.4	11963.7	20527.0	28407.4	28988.8	22448.6
67.5°	1088.9	1107.3	1171.9	1344.9	1900.9	3677.2	8461.8	17225.8	25791.4	26541.1	20234.0
70°	966.6	975.8	998.9	1054.3	1257.3	2076.2	5264.4	13456.3	21387.5	21599.7	15834.7
72.5°	789.0	814.3	885.9	904.3	996.6	1296.5	2929.8	9031.6	14369.8	14422.9	8858.6
75°	611.3	615.9	722.1	775.1	839.7	892.8	1308.0	4553.9	6902.3	6533.2	3414.2
77.5°	456.8	477.5	526.0	592.9	685.2	639.0	586.0	1716.3	2143.1	2103.9	992.0
80°	293.0	304.5	366.8	445.2	532.9	417.6	329.9	502.9	470.6	484.5	237.6
82.5°	147.6	149.9	235.3	362.2	339.1	209.9	207.6	205.3	175.3	173.0	110.7
85°	16.1	34.6	152.3	207.6	152.3	69.2	96.9	94.6	92.3	94.6	64.6
87.5°	2.3	2.3	25.4	30.0	20.8	23.1	27.7	30.0	36.9	34.6	27.7
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°	2798.3	2798.3	2798.3	2798.3	2798.3	2798.3	2798.3	2798.3	2798.3	2798.3	2798.3
2.5°	2881.3	2789.1	2618.4	2454.6	2332.3	2253.9	2152.4	2115.4	2062.4	2055.5	2030.1
5°	3005.9	2830.6	2533.0	2297.7	2108.5	1965.5	1840.9	1737.1	1654.1	1635.6	1644.8
7.5°	3183.6	2922.9	2507.6	2187.0	1924.0	1679.4	1481.0	1358.8	1271.1	1238.8	1243.4
10°	3384.3	3045.1	2503.0	2069.3	1667.9	1368.0	1151.2	1042.7	992.0	973.5	952.8
12.5°	3621.9	3185.9	2491.5	1887.1	1386.5	1091.2	936.6	872.0	823.6	809.7	809.7
15°	3889.5	3335.8	2436.1	1661.0	1125.8	902.0	798.2	747.4	731.3	717.5	717.5
17.5°	4168.6	3483.5	2320.8	1381.8	934.3	772.8	708.2	678.2	655.2	639.0	639.0
20°	4487.0	3628.8	2136.2	1135.0	789.0	689.8	639.0	604.4	586.0	572.1	567.5
22.5°	4789.2	3746.4	1900.9	932.0	687.5	620.6	574.4	537.5	519.1	512.1	512.1
25°	5102.9	3818.0	1617.2	770.5	627.5	562.9	512.1	482.1	466.0	461.4	459.1
27.5°	5407.4	3859.5	1368.0	673.6	572.1	509.8	461.4	438.3	422.2	417.6	419.9
30°	5776.5	3866.4	1125.8	604.4	523.7	459.1	415.2	394.5	385.3	380.6	378.3
32.5°	6150.3	3857.2	945.8	562.9	477.5	415.2	378.3	362.2	355.3	348.3	348.3
35°	6570.1	3808.7	805.1	521.4	433.7	378.3	346.0	332.2	323.0	316.0	313.7
37.5°	7091.5	3783.4	724.4	475.2	394.5	343.7	313.7	299.9	293.0	283.8	281.4
40°	7912.7	3896.4	699.0	433.7	355.3	311.4	283.8	267.6	258.4	249.1	246.8
42.5°	8937.0	4094.8	657.5	392.2	320.7	281.4	253.8	235.3	219.2	207.6	203.0
45°	10263.5	4355.5	592.9	348.3	290.7	249.1	223.8	200.7	179.9	170.7	168.4
47.5°	11654.6	4606.9	535.2	313.7	258.4	221.5	193.8	168.4	149.9	143.0	140.7
50°	12508.1	4657.7	498.3	274.5	226.1	191.5	163.8	140.7	129.2	122.3	122.3
52.5°	12898.0	4576.9	447.5	239.9	196.1	168.4	140.7	122.3	115.3	110.7	108.4
55°	13170.2	4452.4	380.6	207.6	168.4	143.0	124.6	110.7	101.5	96.9	94.6
57°	13329.4	4284.0	329.9	182.2	145.3	124.6	110.7	99.2	90.0	80.7	80.7
57.5°	13336.3	4219.4	316.0	179.9	138.4	120.0	108.4	96.9	85.4	76.1	73.8
60°	13131.0	3776.4	253.8	152.3	110.7	101.5	90.0	76.1	60.0	50.8	48.4
62.5°	12471.2	3213.5	209.9	129.2	90.0	78.4	64.6	57.7	41.5	30.0	30.0
65°	11472.3	2606.8	179.9	103.8	73.8	57.7	43.8	41.5	25.4	13.8	11.5
67.5°	10028.2	2030.1	152.3	85.4	62.3	41.5	30.0	27.7	13.8	4.6	0.0
70°	7640.5	1384.2	126.9	69.2	46.1	30.0	20.8	16.1	9.2	2.3	0.0
72.5°	4403.9	761.3	106.1	53.1	34.6	23.1	16.1	9.2	9.2	0.0	0.0
75°	1573.3	327.6	80.7	39.2	27.7	18.5	11.5	4.6	6.9	2.3	0.0
77.5°	500.6	175.3	53.1	30.0	23.1	13.8	9.2	4.6	4.6	2.3	0.0
80°	147.6	92.3	32.3	25.4	16.1	11.5	6.9	2.3	4.6	2.3	0.0
82.5°	80.7	46.1	25.4	18.5	16.1	9.2	6.9	2.3	2.3	2.3	0.0
85°	41.5	27.7	20.8	18.5	16.1	9.2	6.9	2.3	0.0	2.3	2.3
87.5°	23.1	20.8	20.8	18.5	16.1	11.5	6.9	2.3	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)