

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: P457312

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
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-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: 31198 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

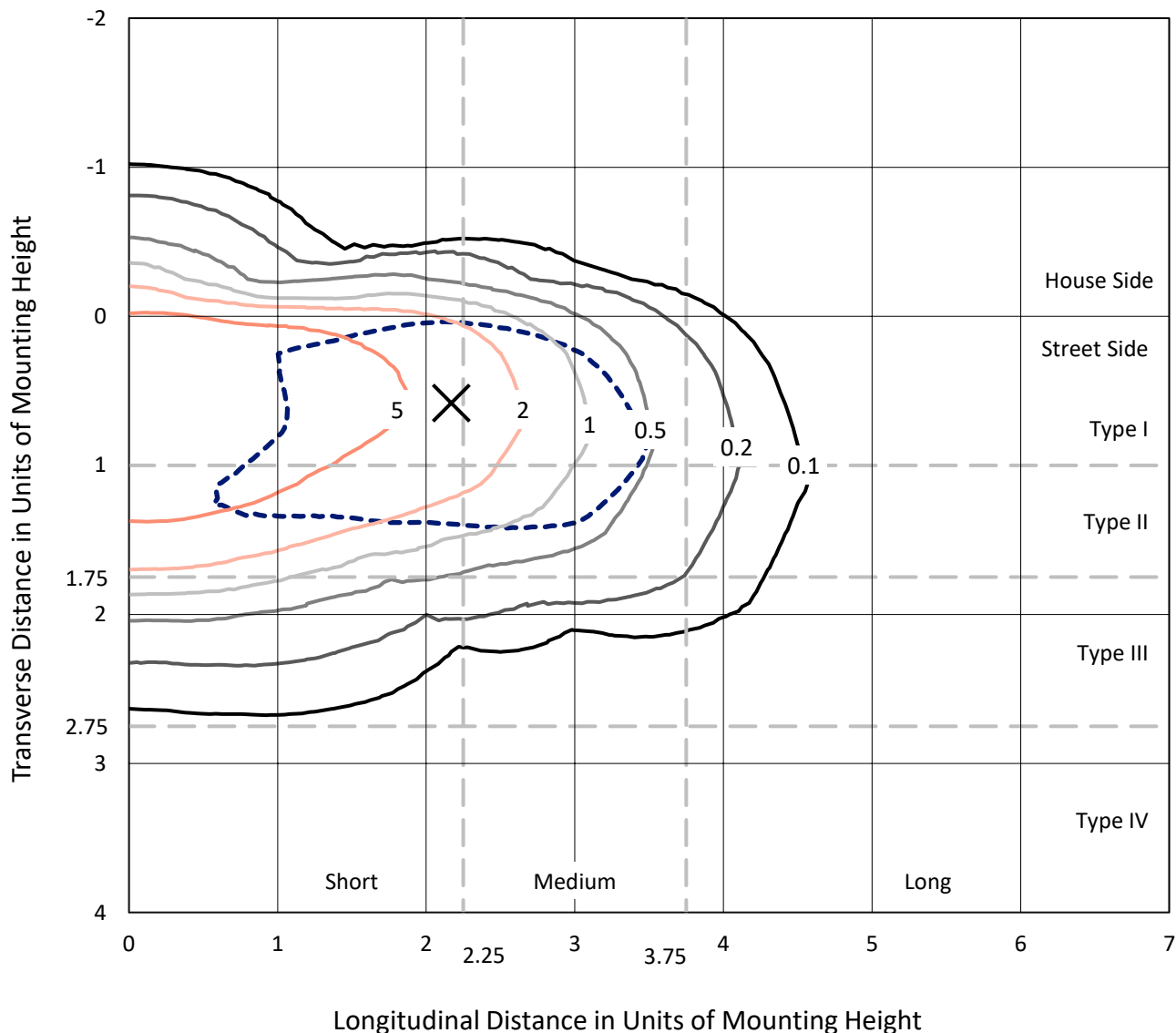
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

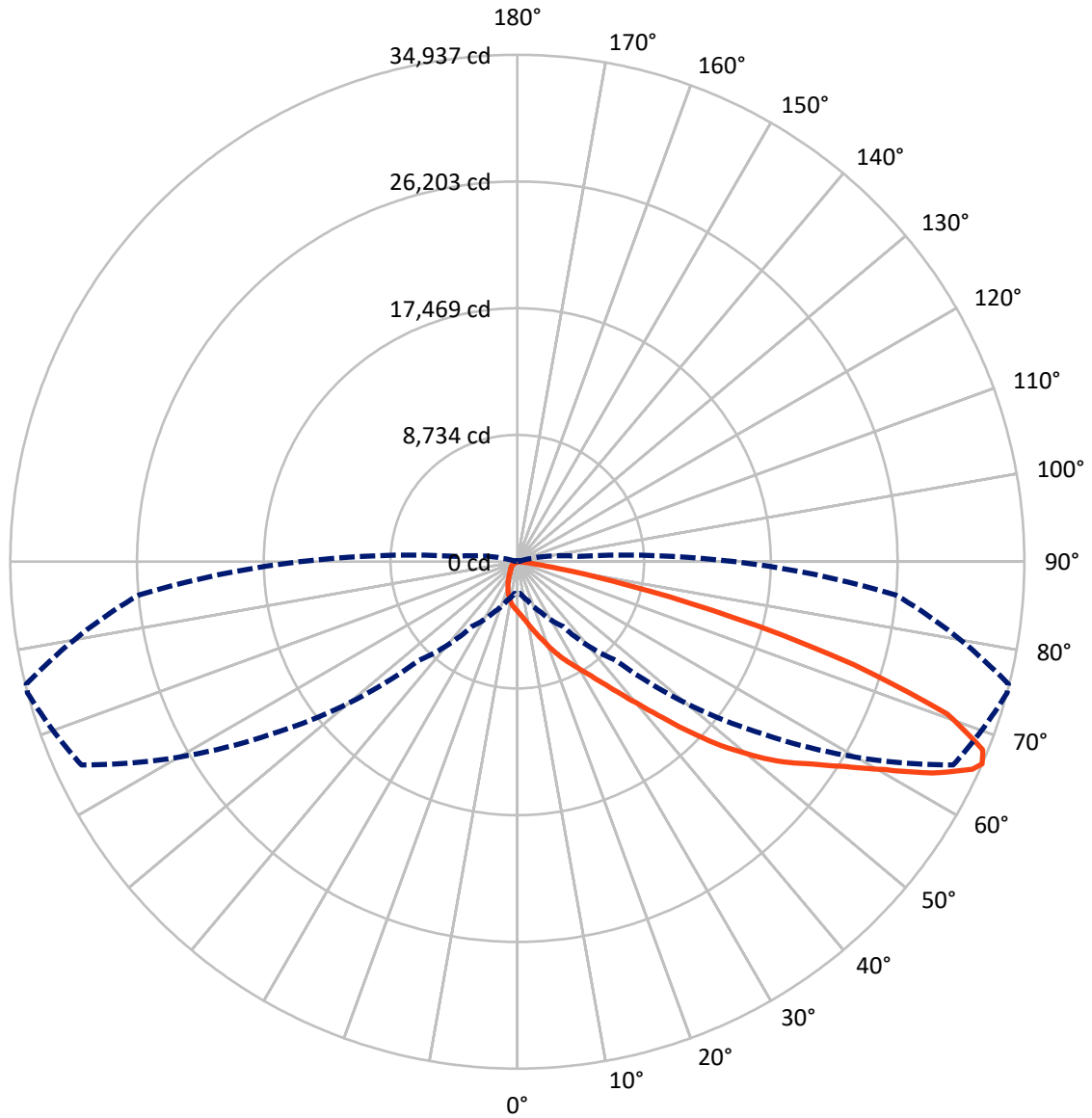
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1926.0	0.0	1926.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	29272.0	0.0	29272.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	31198.0	0.0	31198.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.1	1.1
10°-20°	968.5	3.1
20°-30°	1672.3	5.4
30°-40°	3016.6	9.7
40°-50°	5449.5	17.5
50°-60°	8495.9	27.2
60°-70°	8070.7	25.9
70°-80°	3024.7	9.7
80°-90°	170.6	0.5
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°	31198.0	100.0
0°-180°	31198.0	100.0

**Coefficient of Utilization**



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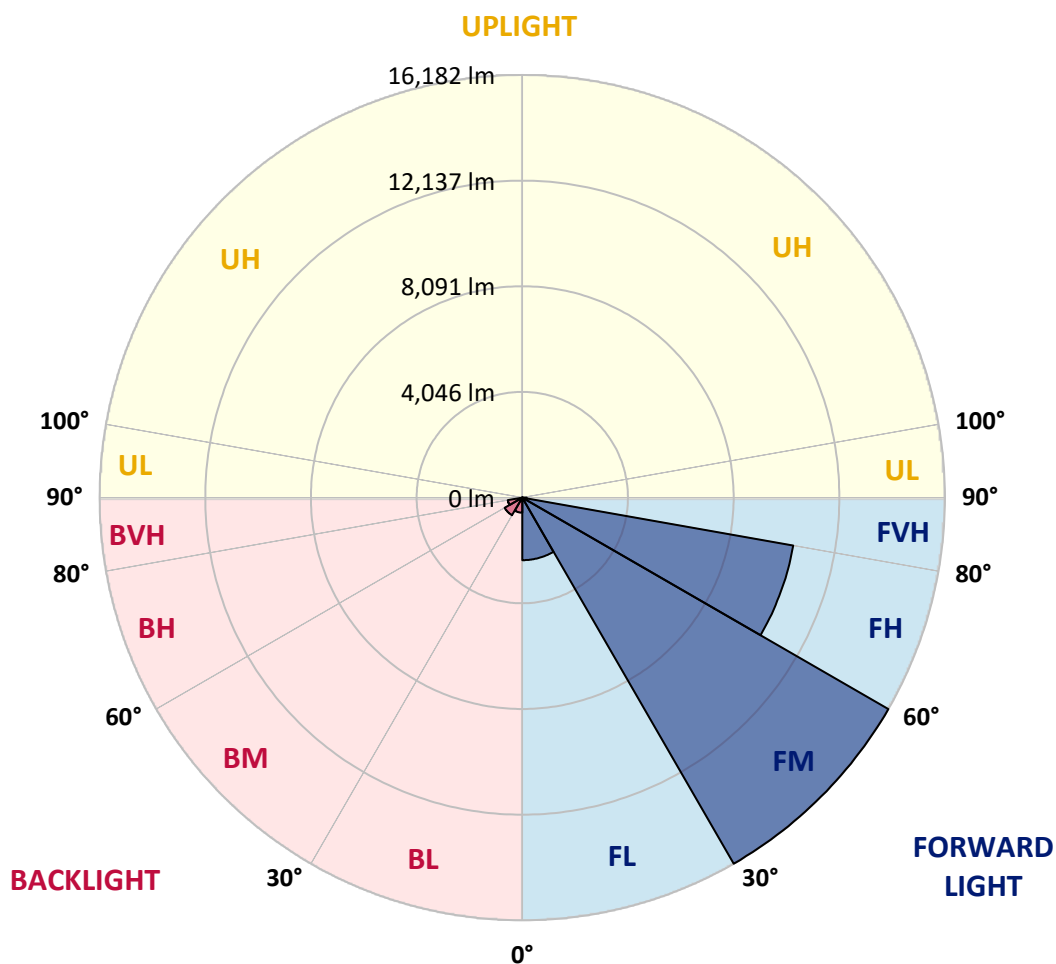
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2394.7	7.7			
FM (30°-60°)	16182.4	51.9			
FH (60°-80°)	10533.0	33.8			G4/12000
FVH (80°-90°)	161.8	0.5			G2/225
BL (0°-30°)	575.2	1.8	B2/1000		
BM (30°-60°)	779.6	2.5	B1/1000		
BH (60°-80°)	562.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.8	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3411.8	3411.8	3411.8	3411.8	3411.8	3411.8	3411.8	3411.8	3411.8	3411.8	3411.8
2.5°	4076.2	4025.4	4041.6	4018.5	3965.5	3887.0	3817.8	3718.6	3619.4	3603.3	3492.5
5°	4613.7	4599.8	4581.4	4514.5	4477.6	4357.6	4214.6	4043.9	3838.6	3801.7	3601.0
7.5°	4980.5	4973.5	4982.8	4948.2	4915.9	4807.4	4655.2	4422.2	4103.9	4083.1	3748.6
10°	5100.4	5118.9	5153.5	5208.8	5259.6	5225.0	5109.6	4819.0	4447.6	4387.6	3917.0
12.5°	5031.2	5052.0	5135.0	5282.7	5446.4	5541.0	5494.9	5282.7	4812.1	4763.6	4106.2
15°	4853.6	4879.0	4996.6	5225.0	5518.0	5785.5	5900.9	5748.6	5236.5	5158.1	4334.5
17.5°	4590.6	4627.5	4795.9	5098.1	5499.5	5960.9	6286.1	6235.4	5688.7	5614.8	4583.7
20°	4392.2	4419.9	4562.9	4908.9	5421.1	6057.7	6652.9	6795.9	6246.9	6120.0	4876.7
22.5°	4523.7	4532.9	4581.4	4789.0	5280.3	6083.1	6975.9	7379.6	6839.8	6726.7	5181.2
25°	5167.3	5075.0	5026.6	4980.5	5250.4	6060.1	7268.8	7988.6	7430.3	7310.4	5483.3
27.5°	6182.3	6140.8	5896.3	5568.7	5506.4	6090.0	7462.6	8565.3	7986.3	7857.1	5778.6
30°	7287.3	7215.8	7065.8	6586.0	6103.9	6302.3	7603.3	9125.8	8643.7	8473.0	6048.5
32.5°	8302.3	8348.4	8124.7	7631.0	7072.8	6754.4	7785.6	9737.2	9398.0	9185.8	6362.3
35°	9485.7	9578.0	9234.3	8761.4	8108.5	7571.0	8140.8	10426.9	10355.4	10087.8	6846.7
37.5°	10687.6	10742.9	10533.0	9868.6	9280.4	8609.1	8809.8	11278.1	11534.2	11305.8	7425.7
40°	11698.0	11774.1	11619.5	11029.0	10401.5	9811.0	9781.0	12205.5	12936.7	12701.4	8288.5
42.5°	12470.8	12528.4	12533.0	12115.5	11550.3	11282.7	11019.8	13388.9	14694.5	14422.3	9289.6
45°	13446.5	13529.6	13481.1	13197.4	12775.3	12726.8	12590.7	14819.1	16798.4	16454.7	10588.4
47.5°	14955.2	15010.6	14890.6	14556.1	14127.1	14203.2	14122.4	16422.4	18943.7	18648.5	11933.3
50°	16002.5	16094.8	16265.5	16399.3	16087.9	15806.4	15566.5	17919.5	20980.7	20715.4	13308.1
52.5°	15991.0	16143.2	16683.0	17356.6	18037.1	17951.8	17262.0	19573.5	22925.3	22597.8	14600.0
55°	14913.7	15209.0	16002.5	17197.5	19082.1	20021.0	19707.3	21488.2	24604.7	24383.3	16097.1
57.5°	12689.9	12869.8	13972.5	15642.7	18498.5	20994.5	22540.1	24083.4	26618.6	26514.8	18422.4
60°	8535.3	8616.0	10034.7	12099.4	15748.8	20023.3	24616.2	27223.0	29098.4	29047.7	21137.5
62.5°	4890.5	4925.1	5953.9	7695.6	11206.6	16969.1	24791.6	31096.1	32071.9	32099.6	24279.4
65°	2632.1	2650.6	3481.0	4516.8	6819.0	12094.7	22293.3	33218.4	34475.7	34528.7	26226.4
66°	2272.2	2184.6	2770.5	3850.1	5425.7	9626.4	20713.1	33142.3	34937.0	34879.4	26157.2
67.5°	1727.8	1806.3	2212.3	2959.7	4020.8	6844.4	17100.6	31668.2	34586.4	34406.5	25093.8
70°	1236.5	1268.8	1575.6	2110.8	2738.2	3755.5	10927.5	26302.5	31435.2	31193.0	21861.9
72.5°	798.2	832.8	1116.5	1527.1	1979.3	2050.8	6117.7	19003.7	24235.6	24201.0	16463.9
75°	569.8	602.1	738.2	1093.4	1487.9	1268.8	2945.8	12807.6	15407.4	15303.5	10184.7
77.5°	412.9	429.1	493.7	715.1	1063.5	908.9	1365.6	6839.8	7670.2	8032.4	4500.6
80°	237.6	251.4	343.7	436.0	719.7	620.5	652.8	2745.1	2830.5	2694.4	1407.2
82.5°	117.6	133.8	205.3	297.6	449.8	417.5	299.9	825.8	872.0	848.9	355.3
85°	27.7	34.6	115.3	196.1	219.1	186.9	145.3	242.2	299.9	293.0	136.1
87.5°	2.3	4.6	41.5	34.6	36.9	62.3	50.8	62.3	96.9	90.0	48.4
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°	3411.8	3411.8	3411.8	3411.8	3411.8	3411.8	3411.8	3411.8	3411.8	3411.8	3411.8
2.5°	3441.8	3398.0	3271.1	3146.5	3042.7	2934.3	2835.1	2777.4	2754.4	2729.0	2740.5
5°	3490.2	3384.1	3128.1	2906.6	2689.8	2505.2	2357.6	2263.0	2216.9	2209.9	2198.4
7.5°	3554.8	3372.6	2975.8	2629.8	2346.1	2140.7	1972.3	1836.2	1794.7	1757.8	1727.8
10°	3633.3	3351.8	2786.7	2339.1	2036.9	1778.6	1557.1	1395.6	1312.6	1289.5	1305.7
12.5°	3716.3	3312.6	2588.3	2071.5	1723.2	1393.3	1188.0	1107.3	1084.2	1075.0	1077.3
15°	3799.4	3264.2	2380.7	1813.2	1372.6	1111.9	1017.3	996.6	987.3	982.7	978.1
17.5°	3875.5	3185.7	2147.7	1561.7	1111.9	950.4	915.8	897.4	878.9	872.0	860.4
20°	3965.5	3095.8	1937.7	1280.3	941.2	860.4	818.9	784.3	756.6	738.2	735.9
22.5°	4050.8	2980.4	1718.6	1061.1	858.1	772.8	705.9	669.0	636.7	613.6	620.5
25°	4096.9	2839.7	1522.5	925.0	782.0	685.1	611.3	565.2	530.6	519.0	516.7
27.5°	4096.9	2666.7	1331.0	846.6	712.8	606.7	530.6	486.7	463.7	447.5	449.8
30°	4064.6	2475.2	1153.4	786.6	652.8	537.5	466.0	426.8	408.3	396.8	394.5
32.5°	4039.3	2293.0	1001.2	729.0	590.5	477.5	415.2	385.2	366.8	355.3	355.3
35°	4078.5	2136.1	883.5	671.3	532.9	431.4	376.0	348.3	329.9	320.7	318.3
37.5°	4182.3	1993.1	793.6	609.0	479.8	392.2	348.3	316.0	297.6	286.0	281.4
40°	4438.4	1912.4	726.7	551.3	429.1	359.9	316.0	286.0	263.0	251.4	249.1
42.5°	4849.0	1914.7	662.1	498.3	389.9	332.2	288.4	253.8	228.4	216.8	214.5
45°	5467.2	2002.3	611.3	447.5	355.3	302.2	258.4	221.5	198.4	186.9	186.9
47.5°	6207.7	2173.0	567.5	403.7	323.0	274.5	228.4	191.5	168.4	159.2	159.2
50°	7010.5	2394.5	523.7	357.6	295.3	244.5	196.1	166.1	147.6	140.7	140.7
52.5°	7829.4	2662.1	479.8	320.7	265.3	212.2	168.4	147.6	131.5	126.9	124.6
55°	8904.4	3003.5	433.7	281.4	233.0	182.2	149.9	129.2	110.7	103.8	101.5
57.5°	10558.4	3517.9	382.9	246.8	191.5	152.3	129.2	108.4	87.7	76.1	73.8
60°	12553.8	4145.4	329.9	216.8	154.6	124.6	103.8	83.0	64.6	50.8	48.4
62.5°	14422.3	4544.5	279.1	182.2	122.3	94.6	73.8	62.3	46.1	32.3	30.0
65°	15248.2	4410.7	230.7	147.6	96.9	66.9	48.4	43.8	27.7	13.8	11.5
66°	14973.7	4212.3	212.2	133.8	87.7	57.7	41.5	36.9	20.8	6.9	6.9
67.5°	14164.0	3744.0	184.5	115.3	76.1	46.1	32.3	27.7	11.5	2.3	0.0
70°	12136.3	3028.9	145.3	85.4	55.4	32.3	18.5	13.8	6.9	0.0	0.0
72.5°	9321.9	2256.1	115.3	64.6	39.2	18.5	9.2	4.6	6.9	0.0	0.0
75°	5711.7	1289.5	90.0	48.4	25.4	11.5	6.9	0.0	6.9	2.3	0.0
77.5°	2535.2	579.0	60.0	32.3	18.5	9.2	4.6	0.0	4.6	2.3	0.0
80°	641.3	189.2	34.6	23.1	13.8	6.9	2.3	0.0	4.6	4.6	2.3
82.5°	175.3	69.2	25.4	18.5	11.5	6.9	2.3	0.0	4.6	4.6	4.6
85°	69.2	32.3	23.1	18.5	13.8	6.9	2.3	0.0	4.6	4.6	4.6
87.5°	32.3	23.1	23.1	20.8	16.1	6.9	2.3	0.0	4.6	2.3	4.6
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)