

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: P647513

Luminaire Tested: **GALN-SA6D-835-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647513  
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-SA6D-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1200mA 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: 28757.2 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

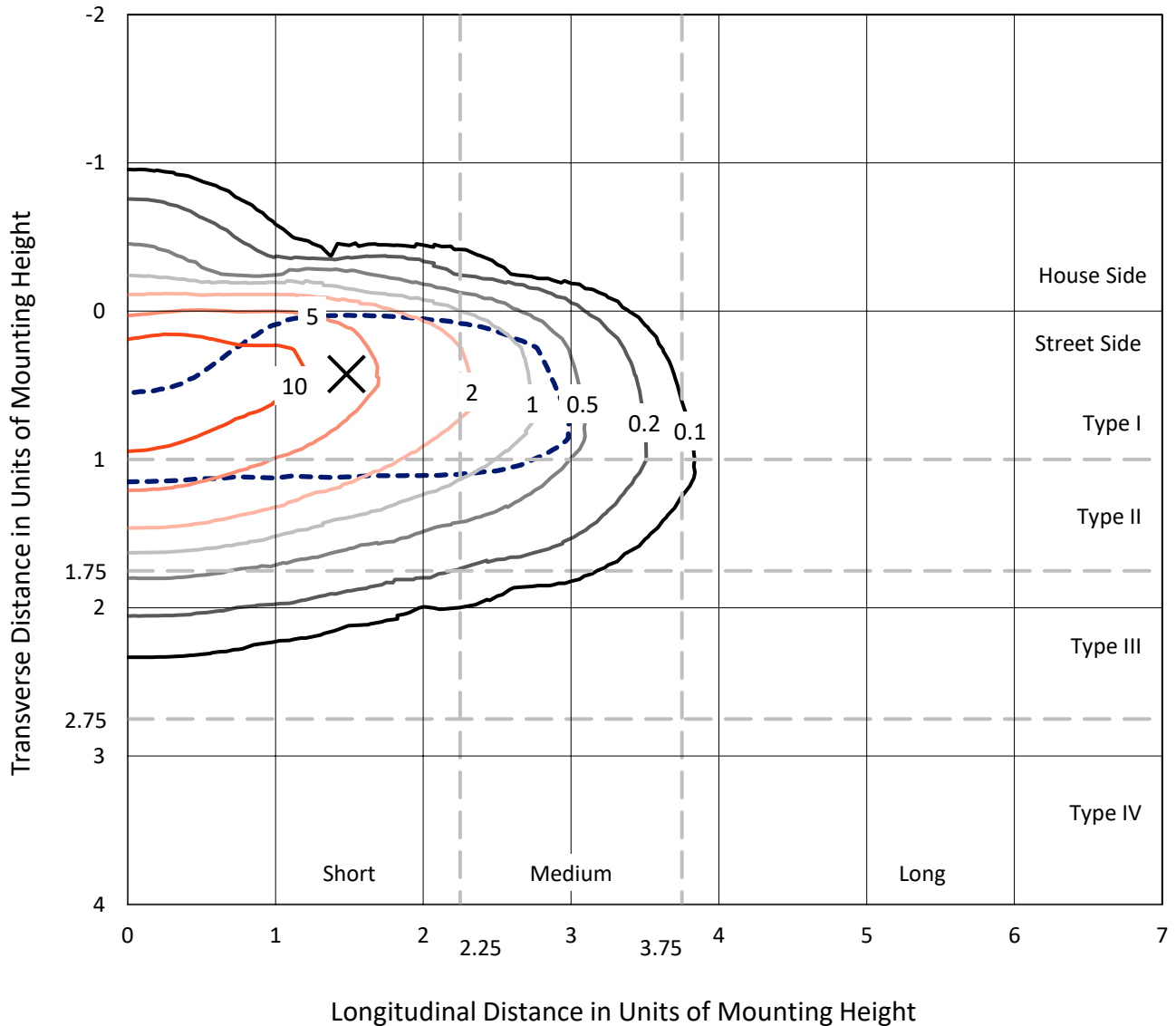
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

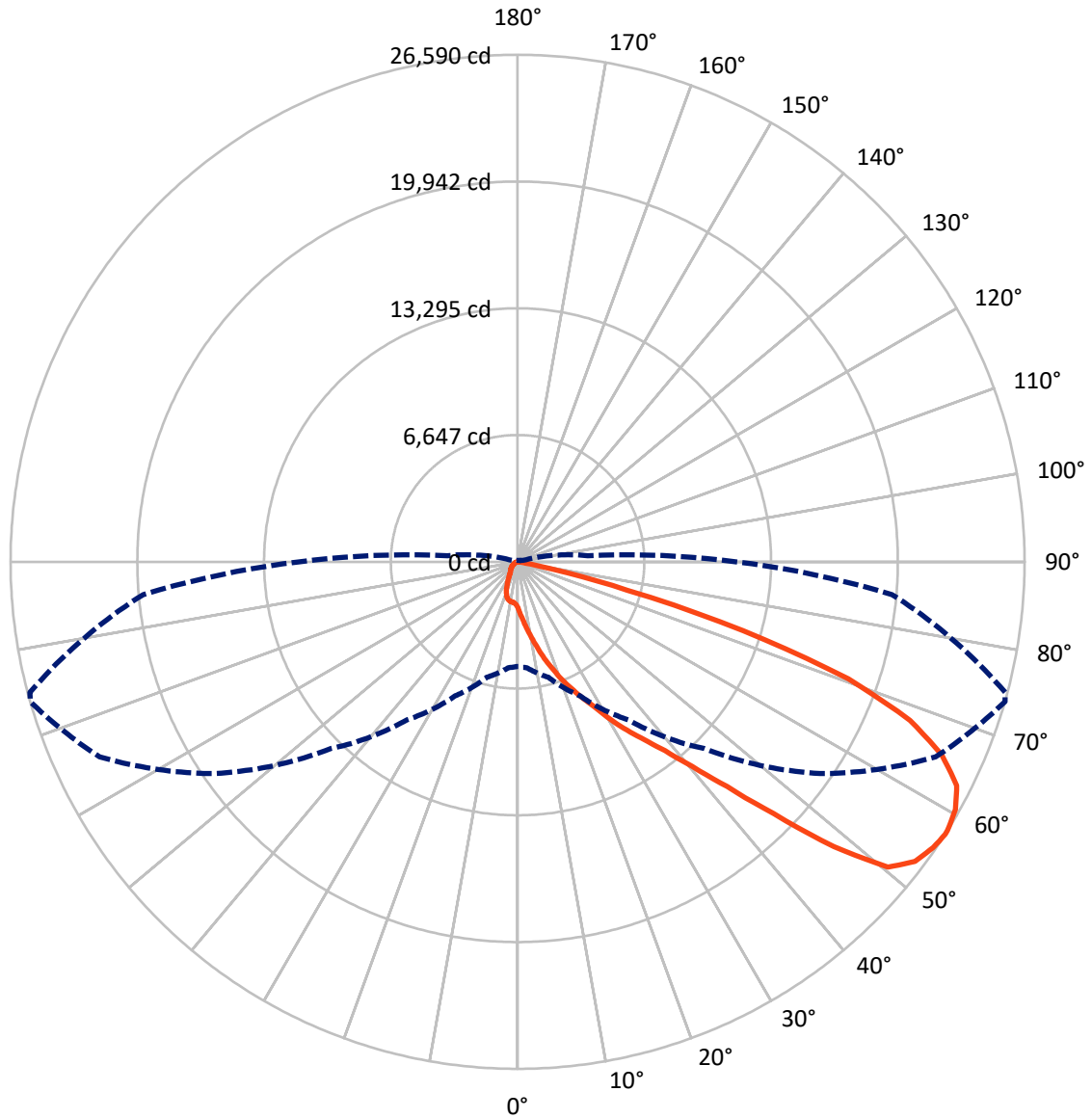
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	1658.6	0.0	1658.6
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	27098.6	0.0	27098.6
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	28757.2	0.0	28757.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.7	1.0
10°-20°	1145.8	4.0
20°-30°	2451.8	8.5
30°-40°	4506.3	15.7
40°-50°	6908.2	24.0
50°-60°	7308.0	25.4
60°-70°	4772.3	16.6
70°-80°	1304.0	4.5
80°-90°	70.2	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°	28757.2	100.0
0°-180°	28757.2	100.0

**Coefficient of Utilization**

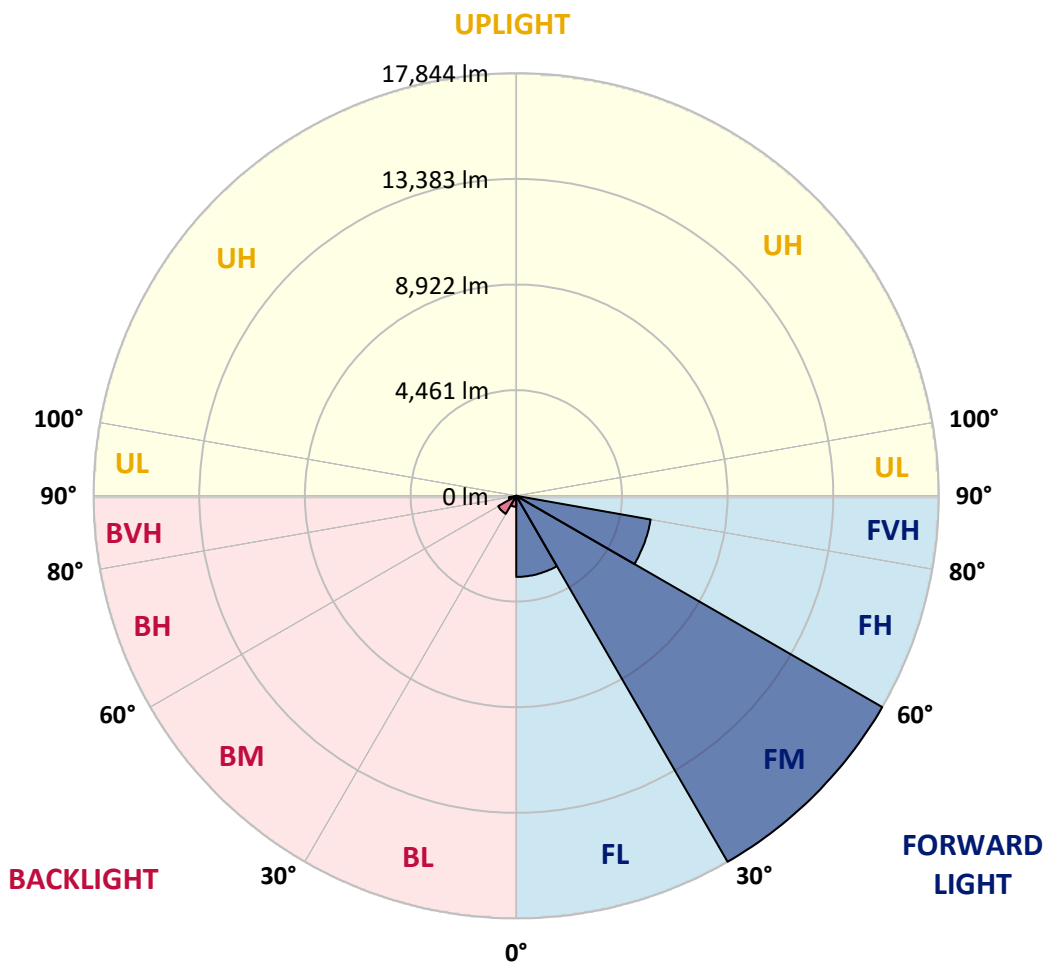


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3424.9	11.9			
FM (30°-60°)	17844.4	62.1			
FH (60°-80°)	5764.9	20.0			G3/7500
FVH (80°-90°)	64.4	0.2			G1/100
BL (0°-30°)	463.3	1.6	B1/500		
BM (30°-60°)	878.1	3.1	B1/1000		
BH (60°-80°)	311.4	1.1	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4
2.5°	3524.2	3492.4	3428.9	3407.1	3313.7	3168.8	3041.7	2871.0	2736.0	2722.1	2559.3
5°	4719.5	4648.0	4618.2	4475.2	4250.9	4040.4	3679.1	3405.1	3089.4	3065.6	2738.0
7.5°	5871.0	5771.8	5742.0	5607.0	5344.9	5013.3	4544.8	4046.4	3546.1	3500.4	2978.2
10°	6705.0	6718.8	6665.2	6575.9	6363.4	6025.9	5448.1	4767.1	4054.4	3996.7	3248.3
12.5°	7302.6	7300.6	7310.6	7308.5	7195.4	6939.3	6331.7	5547.4	4614.2	4501.1	3558.0
15°	7691.7	7697.7	7727.5	7830.7	7842.6	7683.8	7177.5	6294.0	5263.5	5122.5	3893.5
17.5°	8084.9	8126.5	8174.2	8271.5	8358.8	8295.3	7937.9	7072.3	5851.2	5746.0	4252.9
20°	8734.1	8791.7	8763.9	8823.5	8869.1	8875.1	8599.1	7791.0	6564.0	6387.2	4663.9
22.5°	9772.5	9770.5	9699.0	9591.8	9502.5	9498.5	9248.3	8529.6	7211.3	7040.5	5076.9
25°	11084.9	11090.9	10951.9	10646.1	10423.8	10151.8	9863.8	9176.8	7904.2	7693.7	5511.7
27.5°	12589.9	12552.2	12341.7	11920.8	11480.0	11015.4	10600.5	9929.4	8638.8	8464.1	6010.0
30°	13942.0	13928.1	13681.9	13167.7	12587.9	12121.3	11519.7	10872.4	9589.9	9375.4	6568.0
32.5°	15200.8	15220.7	14879.1	14347.1	13787.1	13249.1	12613.7	11773.9	10523.1	10219.2	7175.5
35°	16183.6	16203.5	15850.0	15407.3	14831.5	14384.8	13779.2	12734.9	11444.2	11188.1	7874.4
37.5°	16707.8	16733.6	16529.1	16195.5	15836.2	15611.8	15047.9	13971.8	12564.1	12409.2	8700.4
40°	16807.0	16836.8	16747.5	16658.2	16638.3	16799.1	16634.3	15429.1	14116.7	13874.5	9931.3
42.5°	16509.2	16548.9	16588.6	16787.2	17192.3	17781.9	18355.7	17406.6	16116.1	15790.4	11436.3
45°	15726.9	15723.0	15879.9	16394.1	17301.4	18560.2	20154.6	19882.6	18840.2	18453.0	13562.8
47.5°	14388.7	14368.9	14708.4	15441.1	16854.7	18703.2	21621.8	22888.6	22316.8	21959.4	15848.1
50°	12349.6	12447.0	12981.0	14003.6	15744.8	18270.4	22074.5	24860.2	25169.8	24790.6	17694.5
52.5°	9961.1	9957.2	10795.1	12182.9	14100.8	17317.3	21758.8	25217.5	26097.1	25807.2	18603.9
55°	7372.1	7423.7	8295.3	9695.1	11966.4	15578.0	20728.4	24850.2	26450.5	26246.0	19203.5
57°	5483.9	5575.2	6274.1	7755.3	10108.1	13856.6	19356.4	24193.0	26589.5	26478.3	19701.8
57.5°	5118.5	5122.5	5803.5	7149.7	9564.0	13195.5	18963.2	23919.0	26585.5	26524.0	19783.3
60°	3150.9	3250.2	3720.8	4832.7	7000.8	10298.6	16328.5	22344.5	26379.0	26468.4	20130.7
62.5°	1886.2	1927.9	2233.7	2912.7	4513.0	7517.0	13362.3	20329.3	25841.0	26113.0	20106.9
65°	1213.1	1223.0	1362.0	1763.1	2821.4	5080.8	10296.7	17666.8	24449.2	24949.5	19320.7
67.5°	937.2	953.0	1008.6	1157.5	1636.0	3164.9	7282.8	14825.6	22197.6	22842.9	17414.6
70°	831.9	839.8	859.7	907.3	1082.1	1787.0	4530.8	11581.3	18407.3	18590.0	13628.3
72.5°	679.0	700.9	762.4	778.3	857.7	1115.9	2521.6	7773.2	12367.6	12413.2	7624.2
75°	526.2	530.1	621.5	667.1	722.7	768.4	1125.8	3919.3	5940.5	5622.9	2938.5
77.5°	393.1	411.0	452.7	510.3	589.7	550.0	504.3	1477.2	1844.5	1810.8	853.8
80°	252.1	262.1	315.7	383.2	458.7	359.4	283.9	432.8	405.0	416.9	204.5
82.5°	127.1	129.0	202.5	311.7	291.9	180.7	178.7	176.7	150.9	148.9	95.3
85°	13.9	29.8	131.1	178.7	131.1	59.6	83.4	81.4	79.4	81.4	55.6
87.5°	2.0	2.0	21.8	25.8	17.9	19.9	23.8	25.8	31.8	29.8	23.8
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°	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4
2.5°	2479.8	2400.4	2253.6	2112.5	2007.3	1939.8	1852.4	1820.7	1775.0	1769.0	1747.2
5°	2587.1	2436.1	2180.0	1977.5	1814.8	1691.6	1584.4	1495.1	1423.6	1407.7	1415.7
7.5°	2740.0	2515.6	2158.2	1882.3	1655.9	1445.4	1274.6	1169.4	1094.0	1066.2	1070.2
10°	2912.7	2620.9	2154.3	1780.9	1435.5	1177.4	990.7	897.4	853.8	837.9	820.0
12.5°	3117.2	2741.9	2144.3	1624.1	1193.3	939.1	806.1	750.5	708.8	696.9	696.9
15°	3347.5	2871.0	2096.6	1429.5	968.9	776.3	687.0	643.3	629.4	617.5	617.5
17.5°	3587.8	2998.0	1997.4	1189.3	804.1	665.2	609.6	583.7	563.8	550.0	550.0
20°	3861.8	3123.2	1838.6	976.9	679.0	593.7	550.0	520.2	504.3	492.4	488.4
22.5°	4121.9	3224.4	1636.0	802.1	591.6	534.1	494.4	462.6	446.7	440.8	440.8
25°	4391.8	3285.9	1391.8	663.1	540.0	484.4	440.8	415.0	401.1	397.1	395.1
27.5°	4653.9	3321.7	1177.4	579.7	492.4	438.8	397.1	377.2	363.3	359.4	361.4
30°	4971.7	3327.7	968.9	520.2	450.7	395.1	357.4	339.5	331.6	327.6	325.6
32.5°	5293.3	3319.7	814.0	484.4	411.0	357.4	325.6	311.7	305.8	299.8	299.8
35°	5654.7	3278.0	693.0	448.7	373.3	325.6	297.9	285.9	278.0	272.0	270.1
37.5°	6103.3	3256.2	623.4	409.0	339.5	295.8	270.1	258.1	252.1	244.2	242.3
40°	6810.1	3353.4	601.6	373.3	305.8	268.0	244.2	230.3	222.4	214.5	212.4
42.5°	7691.7	3524.2	565.9	337.6	276.0	242.3	218.4	202.5	188.6	178.7	174.7
45°	8833.4	3748.6	510.3	299.8	250.2	214.5	192.6	172.7	154.9	146.9	144.9
47.5°	10030.6	3965.0	460.6	270.1	222.4	190.6	166.8	144.9	129.0	123.1	121.1
50°	10765.2	4008.6	428.8	236.3	194.6	164.8	140.9	121.1	111.2	105.2	105.2
52.5°	11100.8	3939.2	385.2	206.5	168.7	144.9	121.1	105.2	99.3	95.3	93.3
55°	11335.1	3832.0	327.6	178.7	144.9	123.1	107.2	95.3	87.4	83.4	81.4
57°	11472.0	3687.0	283.9	156.8	125.1	107.2	95.3	85.3	77.4	69.5	69.5
57.5°	11478.0	3631.4	272.0	154.9	119.1	103.3	93.3	83.4	73.4	65.5	63.5
60°	11301.4	3250.2	218.4	131.1	95.3	87.4	77.4	65.5	51.6	43.7	41.7
62.5°	10733.4	2765.8	180.7	111.2	77.4	67.5	55.6	49.6	35.7	25.8	25.8
65°	9873.8	2243.6	154.9	89.3	63.5	49.6	37.7	35.7	21.8	11.9	9.9
67.5°	8630.9	1747.2	131.1	73.4	53.6	35.7	25.8	23.8	11.9	4.0	0.0
70°	6575.9	1191.3	109.2	59.6	39.7	25.8	17.9	13.9	7.9	2.0	0.0
72.5°	3790.3	655.2	91.3	45.6	29.8	19.9	13.9	7.9	7.9	0.0	0.0
75°	1354.1	282.0	69.5	33.7	23.8	15.9	9.9	4.0	6.0	2.0	0.0
77.5°	430.9	150.9	45.6	25.8	19.9	11.9	7.9	4.0	4.0	2.0	0.0
80°	127.1	79.4	27.8	21.8	13.9	9.9	6.0	2.0	4.0	2.0	0.0
82.5°	69.5	39.7	21.8	15.9	13.9	7.9	6.0	2.0	2.0	2.0	0.0
85°	35.7	23.8	17.9	15.9	13.9	7.9	6.0	2.0	0.0	2.0	2.0
87.5°	19.9	17.9	17.9	15.9	13.9	9.9	6.0	2.0	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)