

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: P458835

Luminaire Tested: **GALN-SA3D-735-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17626 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

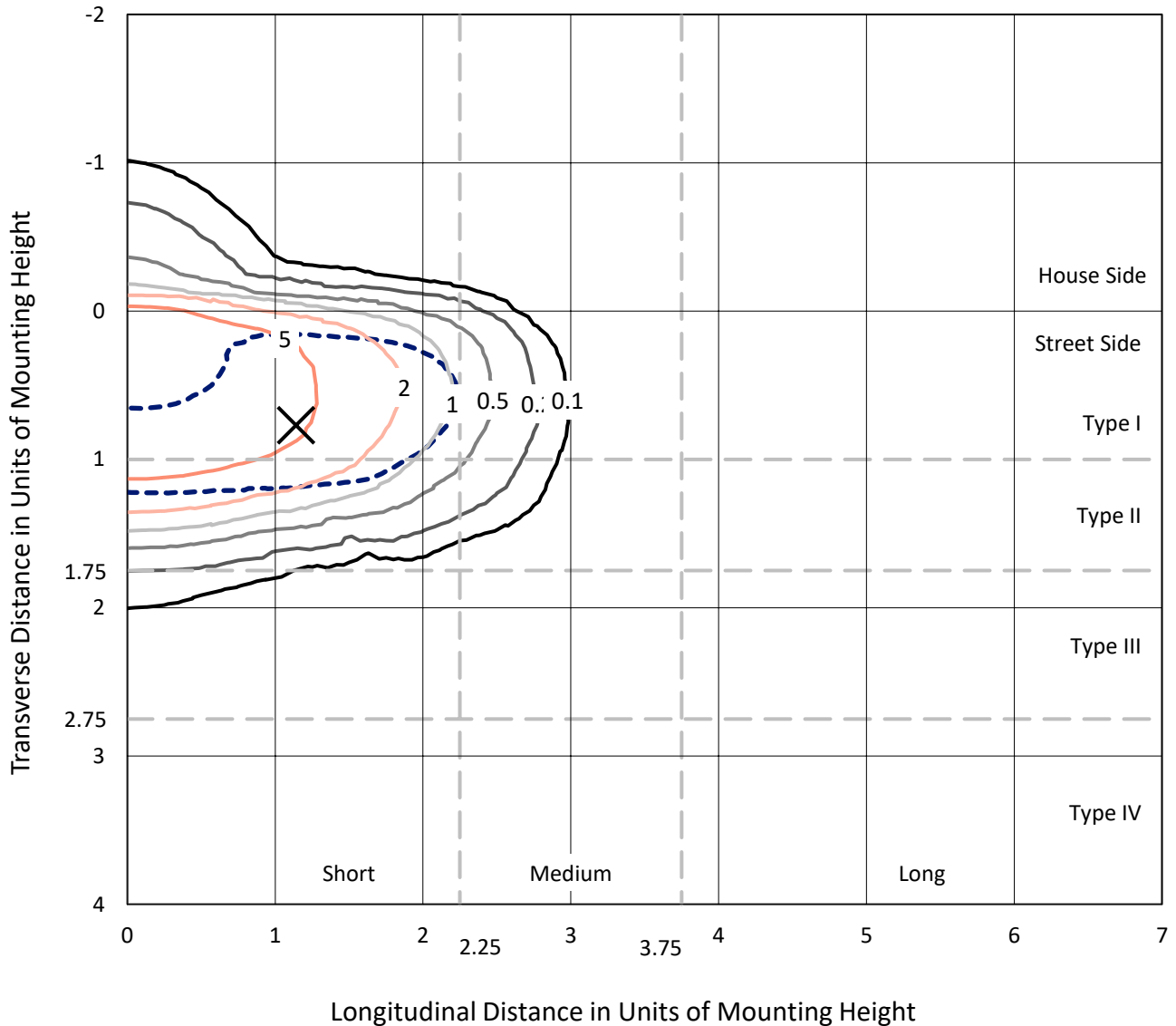
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

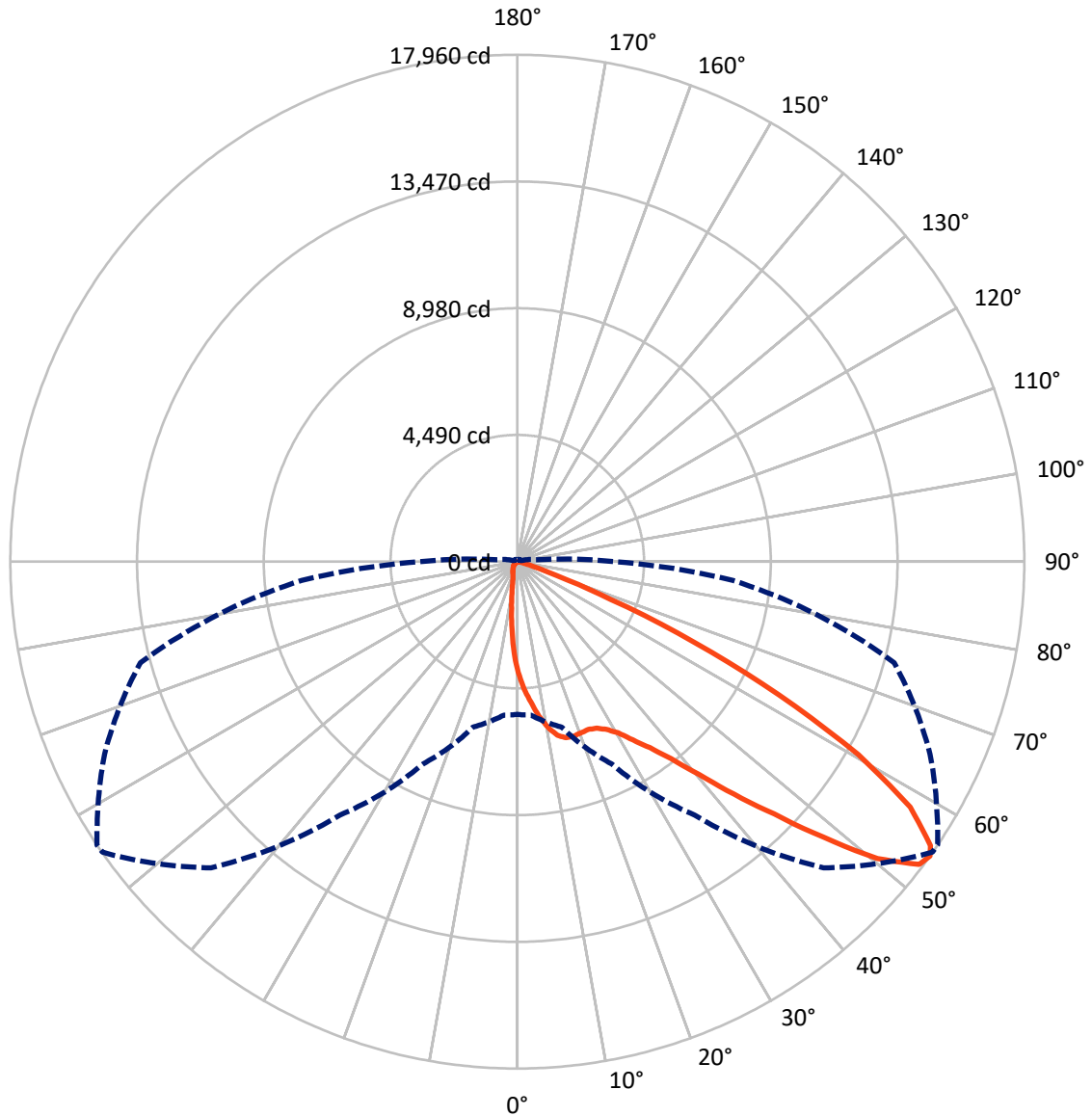
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	833.5	0.0	833.5
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	16792.5	0.0	16792.5
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	17626.0	0.0	17626.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.0	2.0
10°-20°	935.5	5.3
20°-30°	1620.1	9.2
30°-40°	2796.6	15.9
40°-50°	4760.0	27.0
50°-60°	4710.6	26.7
60°-70°	2150.0	12.2
70°-80°	276.1	1.6
80°-90°	31.1	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°	17626.0	100.0
0°-180°	17626.0	100.0

**Coefficient of Utilization**



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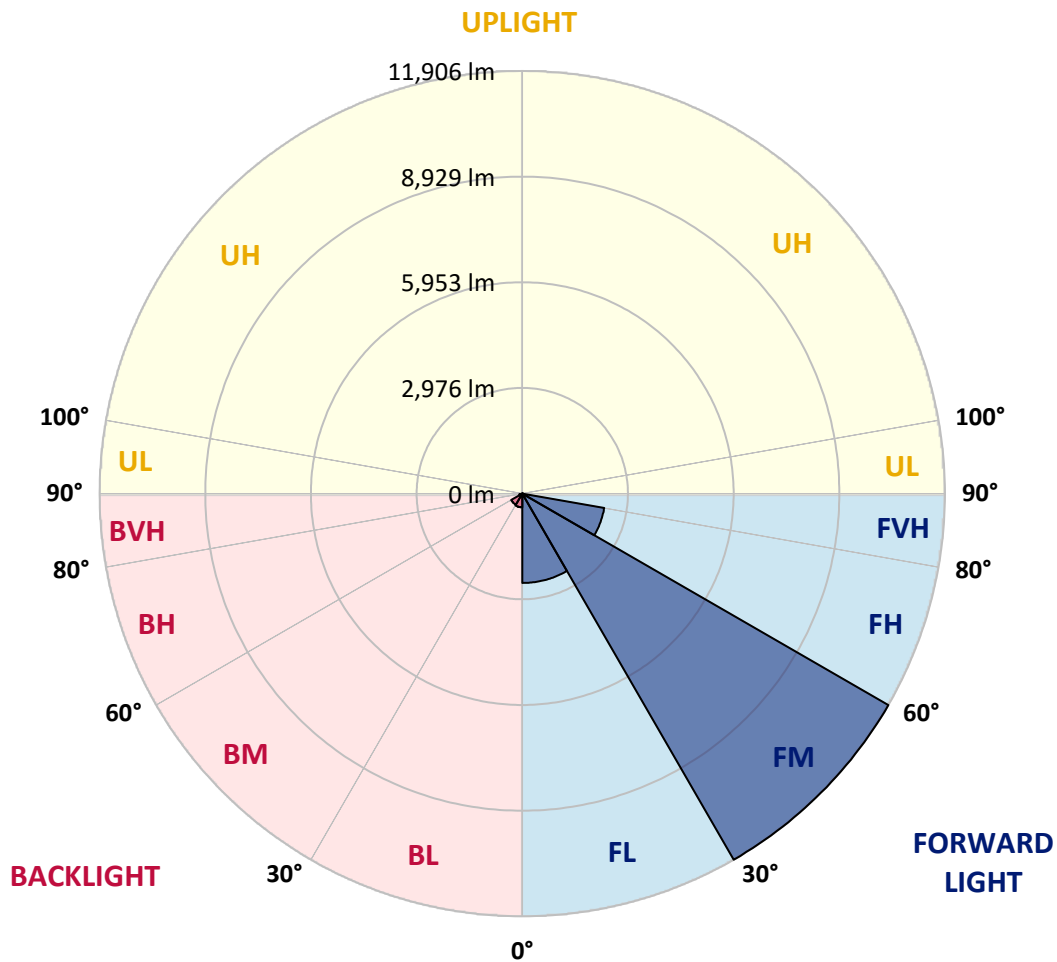
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2516.2	14.3			
FM (30°-60°)	11905.9	67.5			
FH (60°-80°)	2342.7	13.3			G2/5000
FVH (80°-90°)	27.8	0.2			G1/100
BL (0°-30°)	385.5	2.2	B1/500		
BM (30°-60°)	361.2	2.0	B1/1000		
BH (60°-80°)	83.5	0.5	B0/110		G0/110
BVH (80°-90°)	3.3	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	4976.7	4942.3	4894.7	4857.8	4771.0	4646.2	4514.2	4514.2	4386.9	4209.7	4029.0
5°	5740.2	5717.6	5671.2	5576.1	5478.6	5303.8	5038.6	4992.2	4765.1	4444.0	4106.3
7.5°	6050.6	6061.3	6063.7	6038.7	5992.3	5819.9	5557.1	5525.0	5162.3	4731.8	4207.3
10°	5753.3	5805.6	5856.7	5960.2	6106.5	6148.1	5999.4	5966.1	5609.4	5023.1	4316.7
12.5°	5310.9	5339.4	5368.0	5530.9	5824.6	6161.2	6317.0	6315.8	6013.7	5313.3	4455.9
15°	5105.2	5130.1	5132.5	5205.1	5459.6	5949.5	6452.5	6470.4	6408.5	5671.2	4605.7
17.5°	5148.0	5168.2	5151.6	5169.4	5302.6	5716.4	6437.1	6496.5	6728.4	6014.9	4741.3
20°	5427.4	5466.7	5402.5	5352.5	5393.0	5654.6	6384.7	6468.0	6954.4	6350.3	4865.0
22.5°	5929.3	5950.7	5869.8	5733.1	5661.7	5784.2	6370.5	6452.5	7147.0	6625.0	4936.3
25°	6487.0	6479.9	6390.7	6237.3	6087.4	6045.8	6464.4	6538.1	7306.4	6872.3	4957.7
27.5°	7044.7	7066.1	6916.3	6726.0	6546.5	6438.3	6674.9	6729.6	7485.9	7154.1	4983.9
30°	7692.8	7658.4	7510.9	7293.3	7087.6	6936.5	7013.8	7029.3	7733.3	7527.5	5052.9
32.5°	8536.0	8440.8	8275.5	7895.0	7747.5	7491.9	7510.9	7529.9	8034.1	7897.4	5136.1
35°	9680.0	9675.2	9351.8	8839.2	8480.1	8162.6	8079.3	8094.8	8489.6	8446.8	5320.4
37.5°	11057.1	11076.1	10707.4	10191.3	9530.1	9025.9	8854.7	8857.1	9181.7	9205.5	5601.1
40°	12178.5	12228.4	12008.4	11660.0	11007.1	10218.7	9930.9	9904.7	10154.5	10124.7	6001.8
42.5°	12661.3	12707.6	12789.7	12911.0	12551.9	11901.4	11222.4	11258.0	11334.1	11126.0	6451.3
45°	12424.6	12498.3	12820.6	13569.8	13907.5	13688.7	12878.9	12754.0	12431.8	12214.1	6903.2
47.5°	11438.8	11618.4	12157.1	13404.5	14586.6	15326.2	14748.3	14583.0	13530.6	13008.5	7191.0
50°	9817.9	9828.6	10579.0	12173.7	14234.6	16359.6	16656.9	16533.3	14554.5	13454.5	7336.1
52.5°	7117.3	7351.5	8038.9	9885.7	12710.0	16202.7	17873.5	17822.3	15610.4	13682.8	7545.4
54°	5410.8	5456.0	6067.2	7899.8	10958.4	15340.5	17948.4	17960.3	16134.9	13820.7	7669.1
55°	4435.7	4327.4	4969.6	6729.6	9763.2	14578.2	17703.4	17760.5	16370.3	13892.1	7760.6
57.5°	2102.5	2103.7	2594.8	3549.7	6114.8	11319.9	16206.2	16408.4	16396.5	14014.6	8042.5
60°	1064.3	1071.5	1179.7	1638.7	3020.5	7525.2	13399.8	13881.4	15134.8	14032.4	8135.2
62.5°	744.4	736.1	718.3	788.4	1271.2	3824.4	9976.1	10394.7	12858.7	13353.4	7840.3
65°	637.4	619.6	569.6	558.9	642.2	1523.3	6213.5	6896.1	9817.9	11562.5	7000.7
67.5°	544.6	537.5	492.3	465.0	454.3	663.6	3206.0	3565.2	6710.6	8311.2	5302.6
70°	462.6	459.0	431.7	397.2	367.5	397.2	1189.2	1473.4	3740.0	4474.9	2502.0
72.5°	375.8	379.4	384.1	340.1	309.2	281.8	507.8	591.0	1565.0	1599.5	875.2
75°	329.4	325.8	325.8	296.1	258.1	209.3	279.5	300.9	479.2	444.8	203.4
77.5°	231.9	223.6	261.6	243.8	215.2	148.6	159.4	168.9	198.6	170.1	95.1
80°	160.5	160.5	167.7	218.8	193.8	108.2	97.5	104.6	117.7	101.1	54.7
82.5°	90.4	92.8	109.4	116.5	113.0	72.5	64.2	65.4	78.5	69.0	34.5
85°	10.7	17.8	63.0	61.8	46.4	32.1	35.7	36.9	48.8	42.8	20.2
87.5°	1.2	2.4	13.1	16.6	11.9	13.1	13.1	13.1	16.6	19.0	14.3
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°	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	3931.4	3841.1	3625.8	3376.1	3216.7	2957.5	2738.7	2580.5	2541.3	2465.2	2487.8
5°	3926.7	3738.8	3300.0	2836.2	2341.5	1972.9	1698.2	1481.7	1386.6	1323.6	1279.6
7.5°	3929.1	3635.3	2931.3	2192.9	1601.8	1240.3	985.8	853.8	765.8	729.0	733.7
10°	3936.2	3518.8	2503.2	1624.4	1081.0	801.5	645.7	582.7	553.0	548.2	547.0
12.5°	3952.9	3391.6	2094.2	1205.8	756.3	582.7	523.2	501.8	492.3	492.3	488.8
15°	3970.7	3251.2	1754.0	896.6	582.7	500.6	473.3	462.6	456.6	456.6	455.5
17.5°	3970.7	3089.5	1436.5	695.7	501.8	460.2	438.8	424.5	419.8	419.8	418.6
20°	3945.7	2901.6	1154.7	560.1	455.5	422.2	400.8	385.3	379.4	377.0	375.8
22.5°	3858.9	2650.7	919.2	481.6	417.4	388.9	361.5	343.7	338.9	336.5	337.7
25°	3704.3	2367.7	727.8	423.4	382.9	348.4	324.6	311.6	306.8	306.8	308.0
27.5°	3545.0	2071.6	576.8	379.4	341.3	310.4	291.4	283.0	281.8	285.4	286.6
30°	3397.5	1774.3	467.4	343.7	304.4	278.3	265.2	262.8	262.8	264.0	265.2
32.5°	3233.4	1513.8	391.2	312.8	274.7	252.1	245.0	245.0	247.4	247.4	249.7
35°	3129.9	1290.3	343.7	283.0	252.1	233.1	228.3	229.5	233.1	237.8	240.2
37.5°	3074.0	1111.9	312.8	259.2	230.7	217.6	212.9	215.2	223.6	231.9	233.1
40°	3078.8	977.5	287.8	239.0	214.1	199.8	196.2	203.4	211.7	220.0	221.2
42.5°	3131.1	877.6	264.0	215.2	199.8	179.6	178.4	185.5	189.1	197.4	198.6
45°	3193.0	805.1	239.0	190.3	173.6	155.8	157.0	162.9	167.7	180.8	183.1
47.5°	3212.0	755.1	210.5	161.7	142.7	136.8	137.9	141.5	151.0	162.9	164.1
50°	3233.4	724.2	183.1	136.8	121.3	120.1	121.3	123.7	129.6	134.4	133.2
52.5°	3325.0	723.0	160.5	118.9	103.5	105.8	107.0	105.8	101.1	93.9	91.6
54°	3410.6	726.6	149.8	110.6	95.1	98.7	97.5	91.6	79.7	72.5	69.0
55°	3479.6	730.2	143.9	104.6	90.4	91.6	92.8	80.9	65.4	58.3	55.9
57.5°	3615.1	721.8	129.6	91.6	79.7	74.9	73.7	53.5	35.7	30.9	28.5
60°	3547.3	651.7	117.7	78.5	67.8	60.6	49.9	29.7	17.8	13.1	13.1
62.5°	3281.0	553.0	104.6	64.2	55.9	46.4	26.2	16.6	8.3	4.8	3.6
65°	2934.9	465.0	93.9	51.1	44.0	29.7	14.3	10.7	3.6	0.0	0.0
67.5°	2182.2	344.9	79.7	40.4	33.3	19.0	9.5	5.9	1.2	0.0	0.0
70°	1010.8	210.5	67.8	30.9	23.8	14.3	7.1	3.6	0.0	0.0	0.0
72.5°	290.2	132.0	55.9	22.6	16.6	11.9	5.9	2.4	1.2	0.0	0.0
75°	101.1	105.8	41.6	16.6	13.1	8.3	4.8	2.4	1.2	0.0	0.0
77.5°	60.6	85.6	26.2	14.3	10.7	7.1	4.8	2.4	1.2	1.2	0.0
80°	34.5	57.1	16.6	11.9	9.5	5.9	3.6	2.4	1.2	1.2	0.0
82.5°	19.0	27.4	13.1	10.7	8.3	5.9	3.6	2.4	1.2	1.2	1.2
85°	15.5	14.3	10.7	9.5	7.1	4.8	3.6	1.2	0.0	0.0	0.0
87.5°	11.9	9.5	9.5	9.5	7.1	4.8	3.6	1.2	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)