

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: P456850

Luminaire Tested: **GALN-SA8A-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456850
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-SA8A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 21734 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

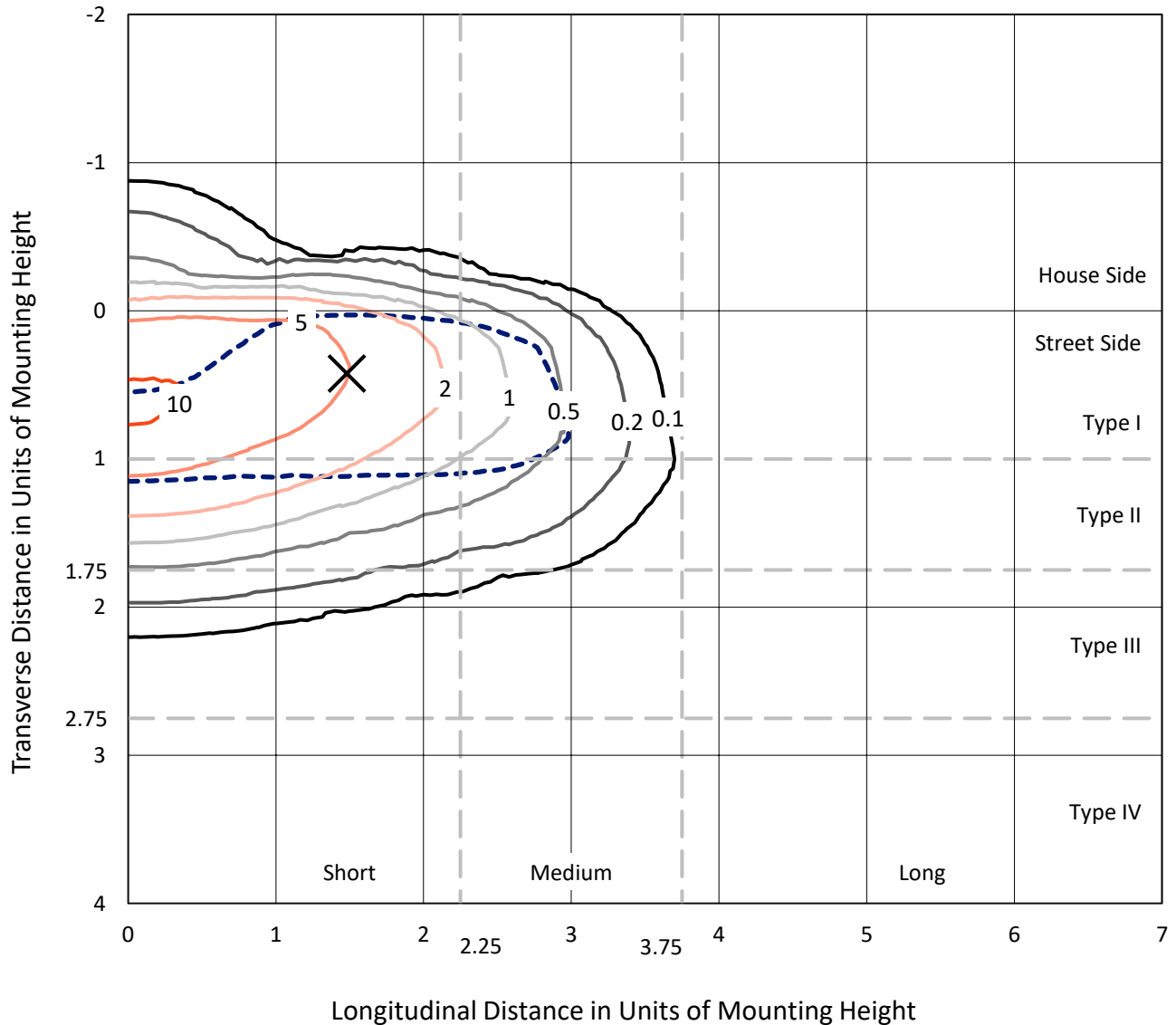
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

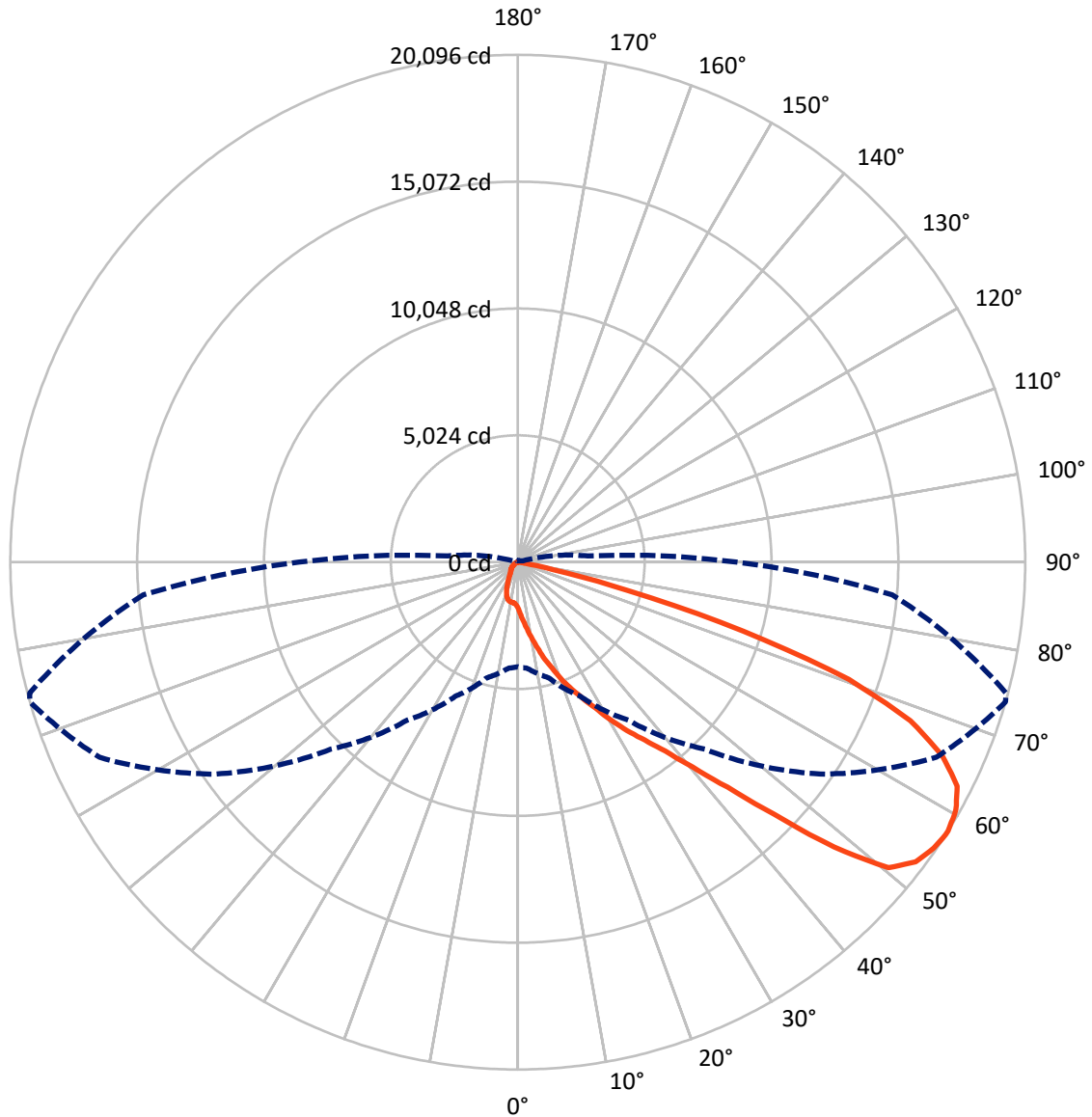
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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
House Side	Lumens	1253.5	0.0	1253.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	20480.4	0.0	20480.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	21734.0	0.0	21734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	1.0
10°-20°	866.0	4.0
20°-30°	1853.0	8.5
30°-40°	3405.8	15.7
40°-50°	5221.1	24.0
50°-60°	5523.2	25.4
60°-70°	3606.8	16.6
70°-80°	985.5	4.5
80°-90°	53.1	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°	21734.0	100.0
0°-180°	21734.0	100.0

Coefficient of Utilization

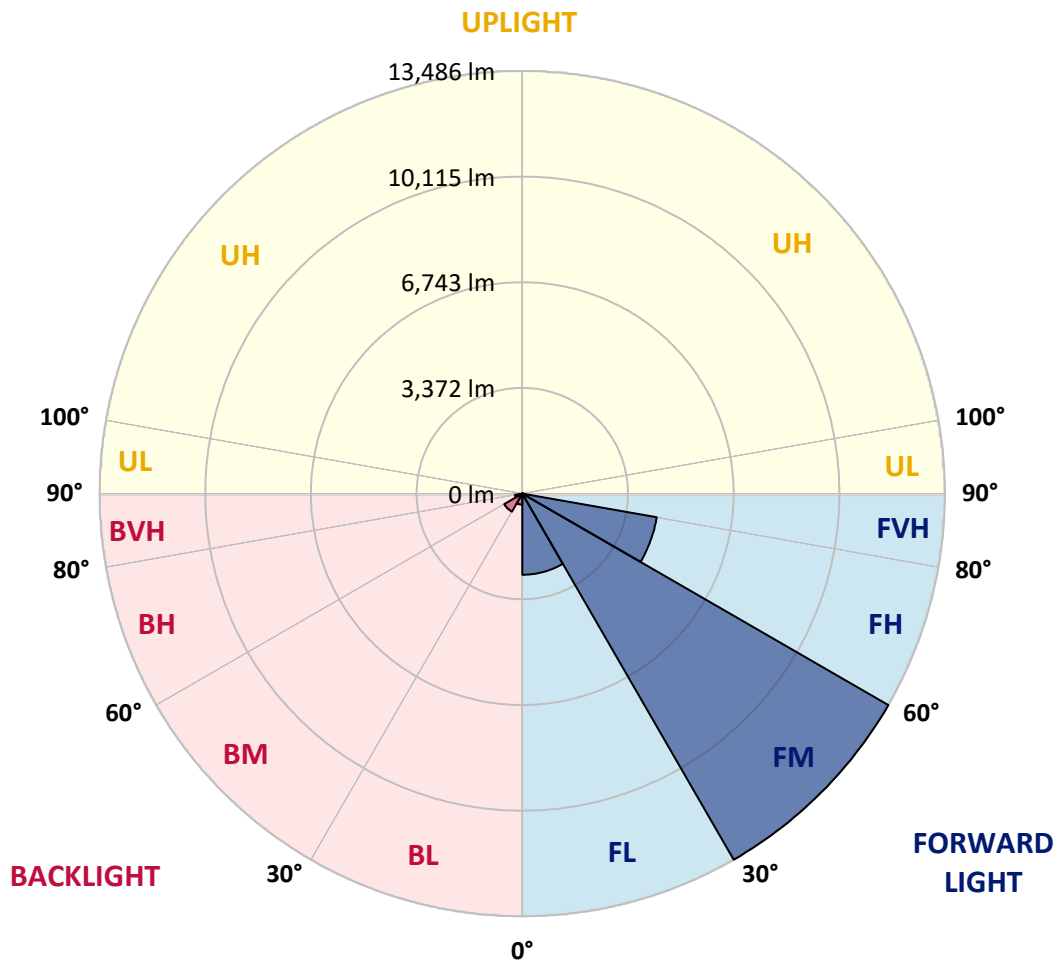


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2588.5	11.9			
FM (30°-60°)	13486.3	62.1			
FH (60°-80°)	4356.9	20.0			G2/5000
FVH (80°-90°)	48.7	0.2			G1/100
BL (0°-30°)	350.2	1.6	B1/500		
BM (30°-60°)	663.7	3.1	B1/1000		
BH (60°-80°)	235.3	1.1	B1/500		G1/500
BVH (80°-90°)	4.4	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°	65°	74°	75°	85°
0°	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	2663.5	2639.5	2591.5	2575.0	2504.5	2394.9	2298.9	2169.8	2067.8	2057.3	1934.2
5°	3566.9	3512.8	3490.3	3382.3	3212.7	3053.7	2780.6	2573.5	2334.9	2316.9	2069.3
7.5°	4437.2	4362.2	4339.7	4237.6	4039.5	3788.9	3434.8	3058.2	2680.0	2645.5	2250.9
10°	5067.4	5077.9	5037.4	4969.9	4809.3	4554.2	4117.6	3602.9	3064.2	3020.7	2454.9
12.5°	5519.1	5517.6	5525.1	5523.6	5438.1	5244.5	4785.3	4192.6	3487.3	3401.8	2689.0
15°	5813.2	5817.7	5840.2	5918.3	5927.3	5807.2	5424.6	4756.8	3978.0	3871.5	2942.6
17.5°	6110.3	6141.8	6177.9	6251.4	6317.4	6269.4	5999.3	5345.0	4422.2	4342.7	3214.2
20°	6601.0	6644.5	6623.5	6668.5	6703.1	6707.6	6499.0	5888.2	4960.9	4827.3	3524.8
22.5°	7385.8	7384.3	7330.3	7249.3	7181.7	7178.7	6989.7	6446.5	5450.1	5321.0	3837.0
25°	8377.7	8382.2	8277.2	8046.1	7878.0	7672.4	7454.8	6935.6	5973.8	5814.7	4165.6
27.5°	9515.1	9486.6	9327.6	9009.4	8676.3	8325.2	8011.6	7504.4	6529.0	6396.9	4542.2
30°	10537.0	10526.5	10340.4	9951.8	9513.6	9161.0	8706.3	8217.1	7247.8	7085.7	4963.9
32.5°	11488.4	11503.4	11245.3	10843.1	10420.0	10013.3	9533.1	8898.4	7953.0	7723.4	5423.1
35°	12231.2	12246.2	11979.1	11644.4	11209.3	10871.6	10414.0	9624.7	8649.3	8455.7	5951.3
37.5°	12627.3	12646.8	12492.3	12240.2	11968.6	11799.0	11372.8	10559.5	9495.6	9378.6	6575.5
40°	12702.3	12724.9	12657.3	12589.8	12574.8	12696.3	12571.8	11660.9	10669.1	10486.0	7505.9
42.5°	12477.3	12507.3	12537.3	12687.3	12993.5	13439.1	13872.8	13155.5	12180.1	11934.1	8643.3
45°	11886.0	11883.0	12001.6	12390.2	13076.0	14027.3	15232.3	15026.7	14238.9	13946.3	10250.4
47.5°	10874.6	10859.6	11116.2	11670.0	12738.4	14135.4	16341.2	17298.6	16866.4	16596.3	11977.6
50°	9333.6	9407.1	9810.7	10583.5	11899.5	13808.3	16683.4	18788.7	19022.8	18736.1	13373.1
52.5°	7528.4	7525.4	8158.6	9207.5	10657.1	13088.0	16444.8	19058.8	19723.5	19504.4	14060.4
55°	5571.6	5610.6	6269.4	7327.3	9043.9	11773.5	15666.0	18781.2	19990.6	19836.1	14513.5
57°	4144.6	4213.6	4741.8	5861.2	7639.4	10472.5	14629.1	18284.5	20095.7	20011.6	14890.2
57.5°	3868.5	3871.5	4386.2	5403.6	7228.3	9972.8	14332.0	18077.4	20092.7	20046.1	14951.7
60°	2381.4	2456.4	2812.1	3652.4	5291.0	7783.5	12340.7	16887.4	19936.6	20004.1	15214.3
62.5°	1425.5	1457.1	1688.1	2201.3	3410.8	5681.2	10098.9	15364.4	19529.9	19735.5	15196.3
65°	916.8	924.4	1029.4	1332.5	2132.3	3840.0	7782.0	13352.1	18478.0	18856.2	14602.1
67.5°	708.3	720.3	762.3	874.8	1236.5	2391.9	5504.1	11204.8	16776.4	17264.1	13161.5
70°	628.7	634.7	649.7	685.8	817.8	1350.5	3424.3	8752.8	13911.8	14049.9	10299.9
72.5°	513.2	529.7	576.2	588.2	648.2	843.3	1905.7	5874.7	9347.1	9381.6	5762.2
75°	397.7	400.7	469.7	504.2	546.2	580.7	850.8	2962.1	4489.7	4249.6	2220.8
77.5°	297.1	310.6	342.1	385.6	445.7	415.7	381.1	1116.4	1394.0	1368.5	645.2
80°	190.6	198.1	238.6	289.6	346.6	271.6	214.6	327.1	306.1	315.1	154.6
82.5°	96.0	97.5	153.1	235.6	220.6	136.6	135.1	133.6	114.0	112.5	72.0
85°	10.5	22.5	99.0	135.1	99.0	45.0	63.0	61.5	60.0	61.5	42.0
87.5°	1.5	1.5	16.5	19.5	13.5	15.0	18.0	19.5	24.0	22.5	18.0
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°	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	1874.2	1814.2	1703.1	1596.6	1517.1	1466.1	1400.0	1376.0	1341.5	1337.0	1320.5
5°	1955.2	1841.2	1647.6	1494.6	1371.5	1278.5	1197.5	1129.9	1075.9	1063.9	1069.9
7.5°	2070.8	1901.2	1631.1	1422.5	1251.5	1092.4	963.4	883.8	826.8	805.8	808.8
10°	2201.3	1980.8	1628.1	1346.0	1084.9	889.8	748.8	678.3	645.2	633.2	619.7
12.5°	2355.9	2072.3	1620.6	1227.5	901.8	709.8	609.2	567.2	535.7	526.7	526.7
15°	2530.0	2169.8	1584.6	1080.4	732.3	586.7	519.2	486.2	475.7	466.7	466.7
17.5°	2711.5	2265.9	1509.6	898.8	607.7	502.7	460.7	441.2	426.2	415.7	415.7
20°	2918.6	2360.4	1389.5	738.3	513.2	448.7	415.7	393.1	381.1	372.1	369.1
22.5°	3115.2	2436.9	1236.5	606.2	447.2	403.7	373.6	349.6	337.6	333.1	333.1
25°	3319.3	2483.4	1051.9	501.2	408.2	366.1	333.1	313.6	303.1	300.1	298.6
27.5°	3517.3	2510.5	889.8	438.2	372.1	331.6	300.1	285.1	274.6	271.6	273.1
30°	3757.4	2515.0	732.3	393.1	340.6	298.6	270.1	256.6	250.6	247.6	246.1
32.5°	4000.5	2509.0	615.2	366.1	310.6	270.1	246.1	235.6	231.1	226.6	226.6
35°	4273.6	2477.4	523.7	339.1	282.1	246.1	225.1	216.1	210.1	205.6	204.1
37.5°	4612.8	2460.9	471.2	309.1	256.6	223.6	204.1	195.1	190.6	184.6	183.1
40°	5147.0	2534.5	454.7	282.1	231.1	202.6	184.6	174.1	168.1	162.1	160.6
42.5°	5813.2	2663.5	427.7	255.1	208.6	183.1	165.1	153.1	142.6	135.1	132.1
45°	6676.0	2833.1	385.6	226.6	189.1	162.1	145.6	130.5	117.0	111.0	109.5
47.5°	7580.9	2996.6	348.1	204.1	168.1	144.1	126.0	109.5	97.5	93.0	91.5
50°	8136.1	3029.7	324.1	178.6	147.1	124.5	106.5	91.5	84.0	79.5	79.5
52.5°	8389.7	2977.1	291.1	156.1	127.5	109.5	91.5	79.5	75.0	72.0	70.5
55°	8566.8	2896.1	247.6	135.1	109.5	93.0	81.0	72.0	66.0	63.0	61.5
57°	8670.3	2786.6	214.6	118.5	94.5	81.0	72.0	64.5	58.5	52.5	52.5
57.5°	8674.8	2744.5	205.6	117.0	90.0	78.0	70.5	63.0	55.5	49.5	48.0
60°	8541.3	2456.4	165.1	99.0	72.0	66.0	58.5	49.5	39.0	33.0	31.5
62.5°	8112.1	2090.3	136.6	84.0	58.5	51.0	42.0	37.5	27.0	19.5	19.5
65°	7462.3	1695.6	117.0	67.5	48.0	37.5	28.5	27.0	16.5	9.0	7.5
67.5°	6523.0	1320.5	99.0	55.5	40.5	27.0	19.5	18.0	9.0	3.0	0.0
70°	4969.9	900.3	82.5	45.0	30.0	19.5	13.5	10.5	6.0	1.5	0.0
72.5°	2864.6	495.2	69.0	34.5	22.5	15.0	10.5	6.0	6.0	0.0	0.0
75°	1023.4	213.1	52.5	25.5	18.0	12.0	7.5	3.0	4.5	1.5	0.0
77.5°	325.6	114.0	34.5	19.5	15.0	9.0	6.0	3.0	3.0	1.5	0.0
80°	96.0	60.0	21.0	16.5	10.5	7.5	4.5	1.5	3.0	1.5	0.0
82.5°	52.5	30.0	16.5	12.0	10.5	6.0	4.5	1.5	1.5	1.5	0.0
85°	27.0	18.0	13.5	12.0	10.5	6.0	4.5	1.5	0.0	1.5	1.5
87.5°	15.0	13.5	13.5	12.0	10.5	7.5	4.5	1.5	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)