

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: P651389

Luminaire Tested: **GALN-SA5D-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651389
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-SA5D-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 26694.2 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

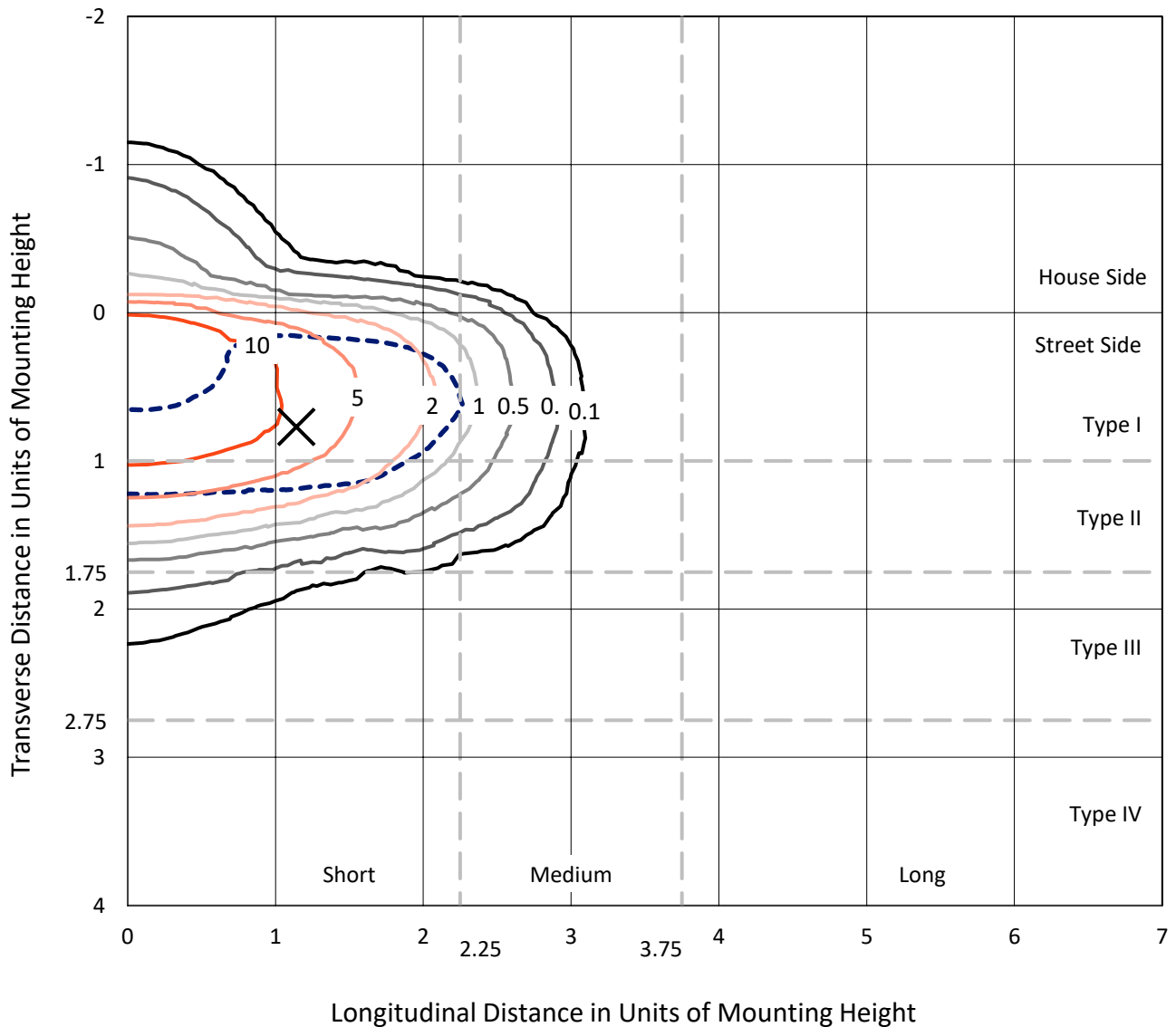
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

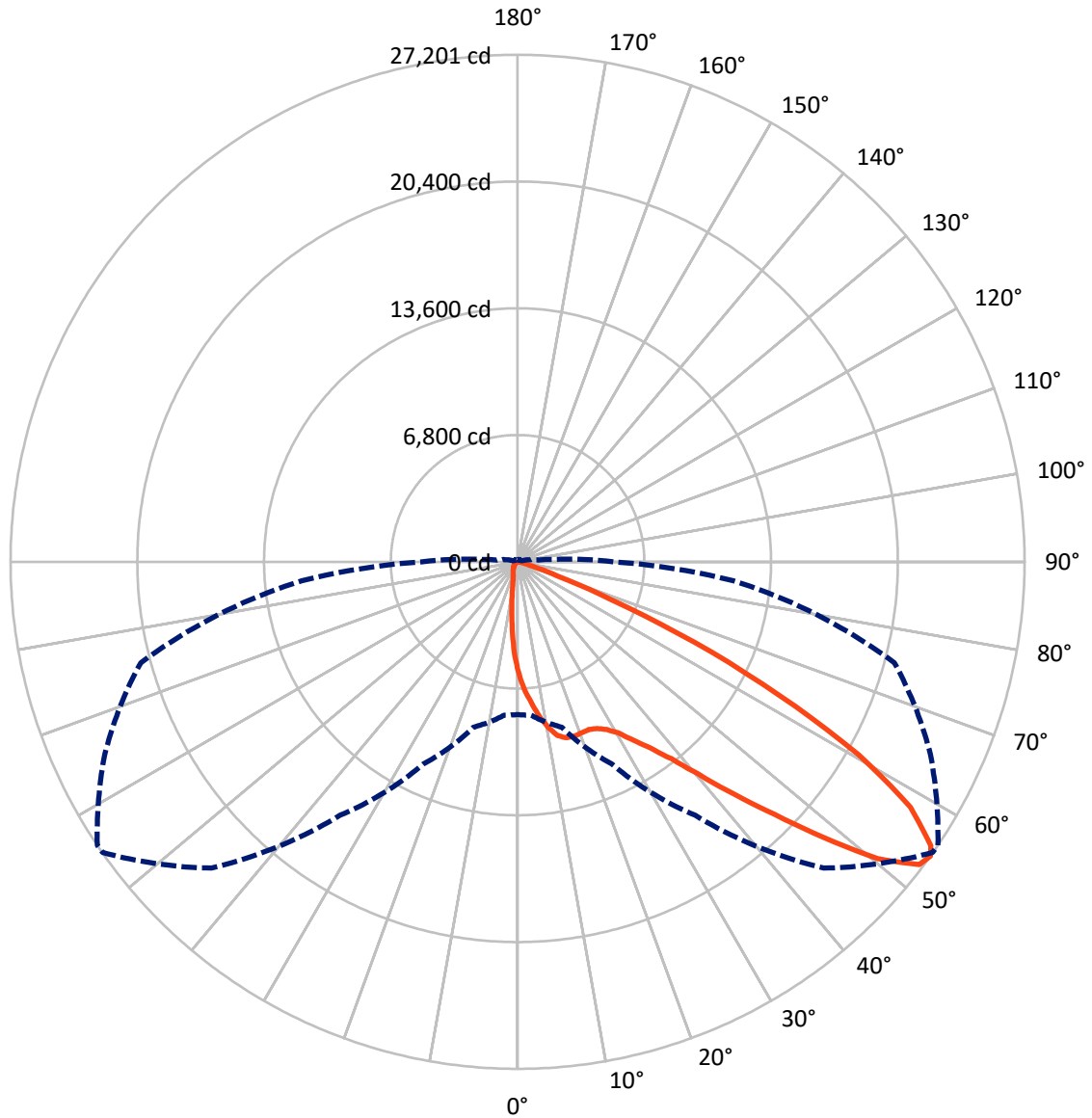
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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
House Side	Lumens	1262.3	0.0	1262.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	25431.9	0.0	25431.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	26694.2	0.0	26694.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.1	2.0
10°-20°	1416.7	5.3
20°-30°	2453.7	9.2
30°-40°	4235.4	15.9
40°-50°	7208.8	27.0
50°-60°	7134.0	26.7
60°-70°	3256.1	12.2
70°-80°	418.2	1.6
80°-90°	47.1	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°	26694.2	100.0
0°-180°	26694.2	100.0

Coefficient of Utilization

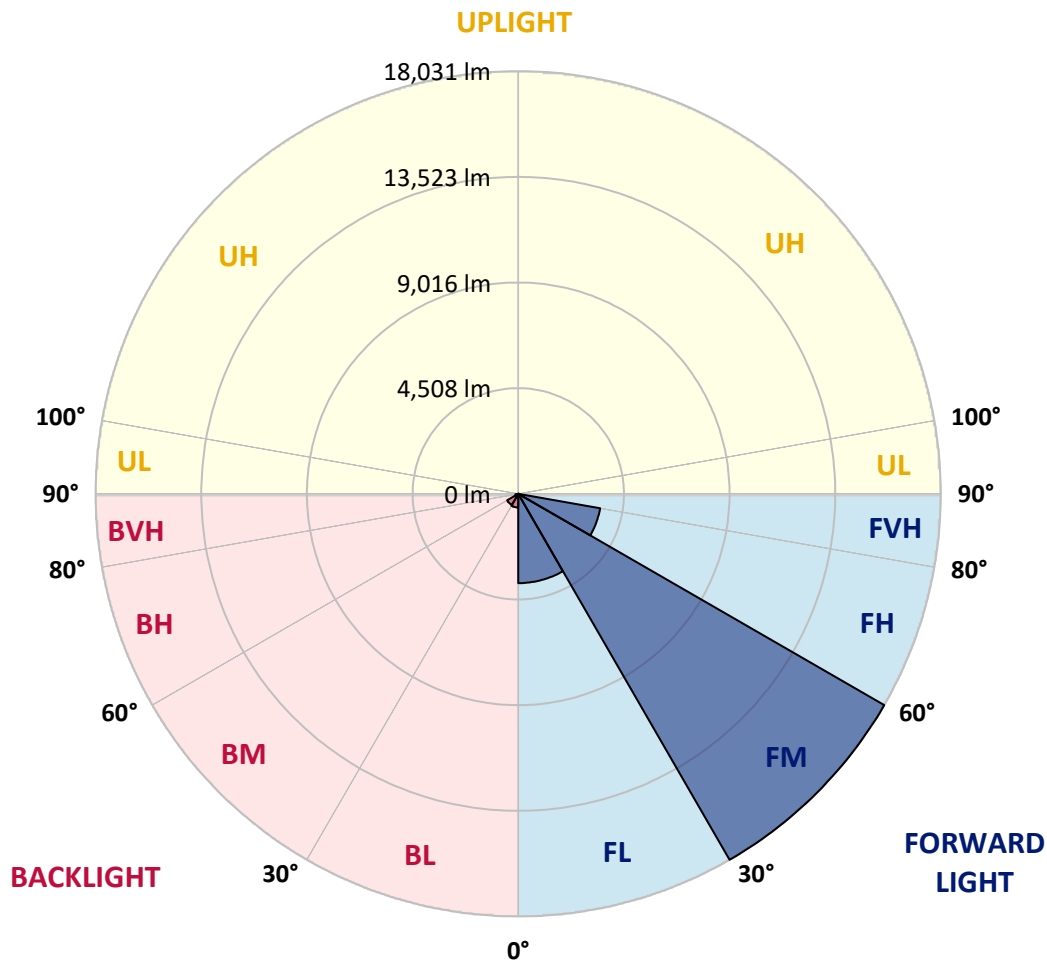


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3810.7	14.3			
FM (30°-60°)	18031.2	67.5			
FH (60°-80°)	3547.9	13.3			G2/5000
FVH (80°-90°)	42.1	0.2			G1/100
BL (0°-30°)	583.8	2.2	B2/1000		
BM (30°-60°)	547.1	2.0	B1/1000		
BH (60°-80°)	126.4	0.5	B1/500		G1/500
BVH (80°-90°)	5.1	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5930.6	5930.6	5930.6	5930.6	5930.6	5930.6	5930.6	5930.6	5930.6	5930.6	5930.6
2.5°	7537.1	7484.9	7412.9	7357.1	7225.6	7036.5	6836.6	6836.6	6643.9	6375.5	6101.8
5°	8693.4	8659.2	8589.0	8444.9	8297.2	8032.5	7630.8	7560.6	7216.6	6730.4	6218.9
7.5°	9163.5	9179.7	9183.3	9145.5	9075.2	8814.1	8416.1	8367.4	7818.1	7166.2	6371.9
10°	8713.2	8792.5	8869.9	9026.6	9248.1	9311.1	9086.0	9035.6	8495.3	7607.4	6537.6
12.5°	8043.2	8086.5	8129.7	8376.4	8821.2	9331.0	9566.9	9565.1	9107.6	8046.9	6748.4
15°	7731.6	7769.5	7773.1	7882.9	8268.4	9010.4	9772.2	9799.2	9705.6	8589.0	6975.3
17.5°	7796.5	7827.1	7801.9	7829.0	8030.6	8657.4	9748.8	9838.9	10190.1	9109.5	7180.5
20°	8219.8	8279.1	8181.9	8106.3	8167.5	8563.7	9669.6	9795.6	10532.3	9617.3	7367.8
22.5°	8979.8	9012.2	8889.7	8682.6	8574.6	8760.0	9648.0	9772.2	10824.0	10033.4	7475.9
25°	9824.4	9813.6	9678.6	9446.2	9219.3	9156.3	9790.2	9901.8	11065.3	10408.0	7508.4
27.5°	10669.1	10701.6	10474.6	10186.4	9914.5	9750.6	10109.0	10191.8	11337.3	10834.8	7548.0
30°	11650.6	11598.4	11375.1	11045.5	10733.9	10505.2	10622.3	10645.7	11711.9	11400.3	7652.4
32.5°	12927.5	12783.5	12533.2	11956.8	11733.5	11346.3	11375.1	11403.9	12167.5	11960.4	7778.5
35°	14660.1	14652.9	14163.0	13386.8	12842.9	12362.0	12236.0	12259.3	12857.3	12792.5	8057.6
37.5°	16745.7	16774.5	16216.2	15434.5	14433.2	13669.5	13410.2	13413.8	13905.5	13941.5	8482.7
40°	18444.0	18519.7	18186.5	17658.7	16670.0	15476.0	15040.1	15000.5	15378.7	15333.7	9089.6
42.5°	19175.2	19245.4	19369.7	19553.4	19009.5	18024.4	16996.0	17050.0	17165.3	16850.1	9770.4
45°	18816.8	18928.5	19416.5	20551.2	21062.7	20731.2	19504.8	19315.7	18827.6	18498.0	10454.8
47.5°	17323.8	17595.7	18411.6	20300.8	22091.1	23211.3	22336.0	22085.6	20491.7	19701.1	10890.6
50°	14869.0	14885.2	16021.6	18436.8	21557.9	24776.3	25226.6	25039.3	22042.4	20376.5	11110.4
52.5°	10778.9	11133.7	12174.7	14971.7	19249.1	24538.5	27068.9	26991.6	23641.7	20722.2	11427.3
54°	8194.5	8263.0	9188.7	11964.0	16596.2	23232.9	27182.5	27200.5	24435.9	20931.1	11614.6
55°	6717.7	6553.8	7526.4	10191.8	14786.2	22078.4	26811.4	26897.9	24792.5	21039.2	11753.3
57.5°	3184.2	3186.0	3929.7	5376.0	9260.8	17143.7	24544.0	24850.1	24832.1	21224.7	12180.1
60°	1611.9	1622.7	1786.6	2481.8	4574.5	11396.7	20293.6	21023.1	22921.3	21251.7	12320.6
62.5°	1127.4	1114.8	1087.8	1194.1	1925.3	5792.0	15108.6	15742.5	19474.2	20223.4	11874.0
65°	965.3	938.3	862.7	846.5	972.5	2307.1	9410.2	10444.0	14869.0	17511.0	10602.5
67.5°	824.9	814.1	745.6	704.2	688.0	1005.0	4855.5	5399.4	10163.0	12587.2	8030.6
70°	700.6	695.2	653.8	601.6	556.5	601.6	1801.0	2231.4	5664.1	6777.1	3789.3
72.5°	569.1	574.5	581.7	515.1	468.3	426.8	769.0	895.1	2370.1	2422.3	1325.5
75°	498.9	493.5	493.5	448.4	390.8	317.0	423.3	455.7	725.8	673.6	308.0
77.5°	351.2	338.6	396.2	369.2	326.0	225.1	241.4	255.7	300.7	257.5	144.1
80°	243.1	243.1	254.0	331.4	293.6	163.9	147.7	158.5	178.3	153.1	82.8
82.5°	136.9	140.4	165.7	176.5	171.1	109.8	97.2	99.1	118.8	104.5	52.2
85°	16.2	27.0	95.5	93.7	70.2	48.6	54.0	55.8	73.8	64.8	30.6
87.5°	1.8	3.6	19.8	25.2	18.0	19.8	19.8	19.8	25.2	28.8	21.6
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°	5930.6	5930.6	5930.6	5930.6	5930.6	5930.6	5930.6	5930.6	5930.6	5930.6	5930.6
2.5°	5954.1	5817.2	5491.2	5113.0	4871.7	4479.1	4147.7	3908.1	3848.8	3733.5	3767.7
5°	5946.9	5662.4	4997.7	4295.4	3546.2	2987.8	2571.9	2244.0	2100.0	2004.5	1937.8
7.5°	5950.5	5505.6	4439.5	3321.0	2425.9	1878.5	1493.0	1293.1	1159.8	1104.0	1111.2
10°	5961.3	5329.2	3791.1	2460.2	1637.1	1213.9	977.9	882.5	837.5	830.2	828.5
12.5°	5986.5	5136.4	3171.6	1826.2	1145.4	882.5	792.5	760.0	745.6	745.6	740.2
15°	6013.5	4923.9	2656.5	1358.0	882.5	758.2	716.8	700.6	691.6	691.6	689.8
17.5°	6013.5	4679.0	2175.6	1053.6	760.0	697.0	664.6	642.9	635.7	635.7	633.9
20°	5975.7	4394.4	1748.8	848.2	689.8	639.3	606.9	583.5	574.5	571.0	569.1
22.5°	5844.2	4014.4	1392.2	729.4	632.2	589.0	547.5	520.5	513.3	509.6	511.5
25°	5610.1	3585.8	1102.2	641.2	580.0	527.7	491.6	471.9	464.7	464.7	466.4
27.5°	5368.8	3137.4	873.5	574.5	516.9	470.0	441.3	428.7	426.8	432.3	434.0
30°	5145.4	2687.1	707.8	520.5	461.0	421.4	401.7	398.0	398.0	399.8	401.7
32.5°	4896.9	2292.7	592.6	473.7	416.0	381.8	371.0	371.0	374.6	374.6	378.2
35°	4740.2	1954.1	520.5	428.7	381.8	353.0	345.8	347.6	353.0	360.2	363.8
37.5°	4655.6	1683.9	473.7	392.6	349.4	329.6	322.4	326.0	338.6	351.2	353.0
40°	4662.8	1480.4	435.8	362.0	324.2	302.6	297.1	308.0	320.6	333.2	335.0
42.5°	4742.1	1329.1	399.8	326.0	302.6	272.0	270.1	281.0	286.4	299.0	300.7
45°	4835.7	1219.3	362.0	288.1	263.0	235.9	237.8	246.7	254.0	273.7	277.4
47.5°	4864.5	1143.6	318.7	244.9	216.1	207.1	208.9	214.3	228.8	246.7	248.5
50°	4896.9	1096.8	277.4	207.1	183.7	181.9	183.7	187.3	196.3	203.5	201.7
52.5°	5035.6	1095.0	243.1	180.1	156.7	160.3	162.1	160.3	153.1	142.3	138.7
54°	5165.3	1100.4	226.9	167.5	144.1	149.4	147.7	138.7	120.7	109.8	104.5
55°	5269.7	1105.8	217.9	158.5	136.9	138.7	140.4	122.4	99.1	88.2	84.7
57.5°	5475.0	1093.2	196.3	138.7	120.7	113.5	111.7	81.1	54.0	46.8	43.2
60°	5372.4	986.9	178.3	118.8	102.7	91.8	75.6	45.0	27.0	19.8	19.8
62.5°	4969.0	837.5	158.5	97.2	84.7	70.2	39.6	25.2	12.6	7.2	5.4
65°	4444.9	704.2	142.3	77.5	66.6	45.0	21.6	16.2	5.4	0.0	0.0
67.5°	3304.8	522.3	120.7	61.2	50.5	28.8	14.4	9.0	1.8	0.0	0.0
70°	1530.9	318.7	102.7	46.8	36.0	21.6	10.8	5.4	0.0	0.0	0.0
72.5°	439.4	199.9	84.7	34.2	25.2	18.0	9.0	3.6	1.8	0.0	0.0
75°	153.1	160.3	63.1	25.2	19.8	12.6	7.2	3.6	1.8	0.0	0.0
77.5°	91.8	129.7	39.6	21.6	16.2	10.8	7.2	3.6	1.8	1.8	0.0
80°	52.2	86.5	25.2	18.0	14.4	9.0	5.4	3.6	1.8	1.8	0.0
82.5°	28.8	41.5	19.8	16.2	12.6	9.0	5.4	3.6	1.8	1.8	1.8
85°	23.4	21.6	16.2	14.4	10.8	7.2	5.4	1.8	0.0	0.0	0.0
87.5°	18.0	14.4	14.4	14.4	10.8	7.2	5.4	1.8	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)