

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: P454427

Luminaire Tested: **GALN-SA5C-740-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454427
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-SA5C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA 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: 28846 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

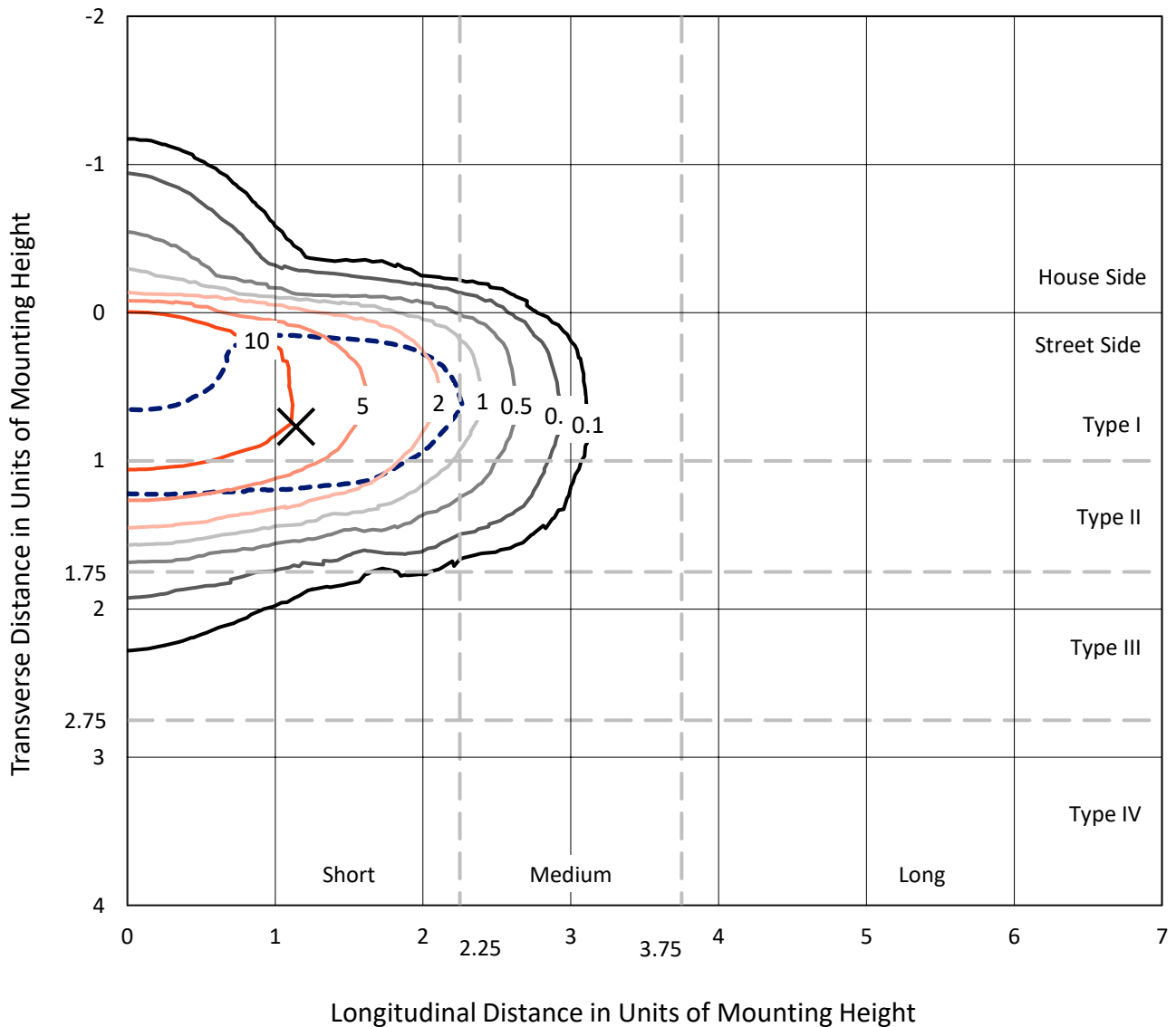
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

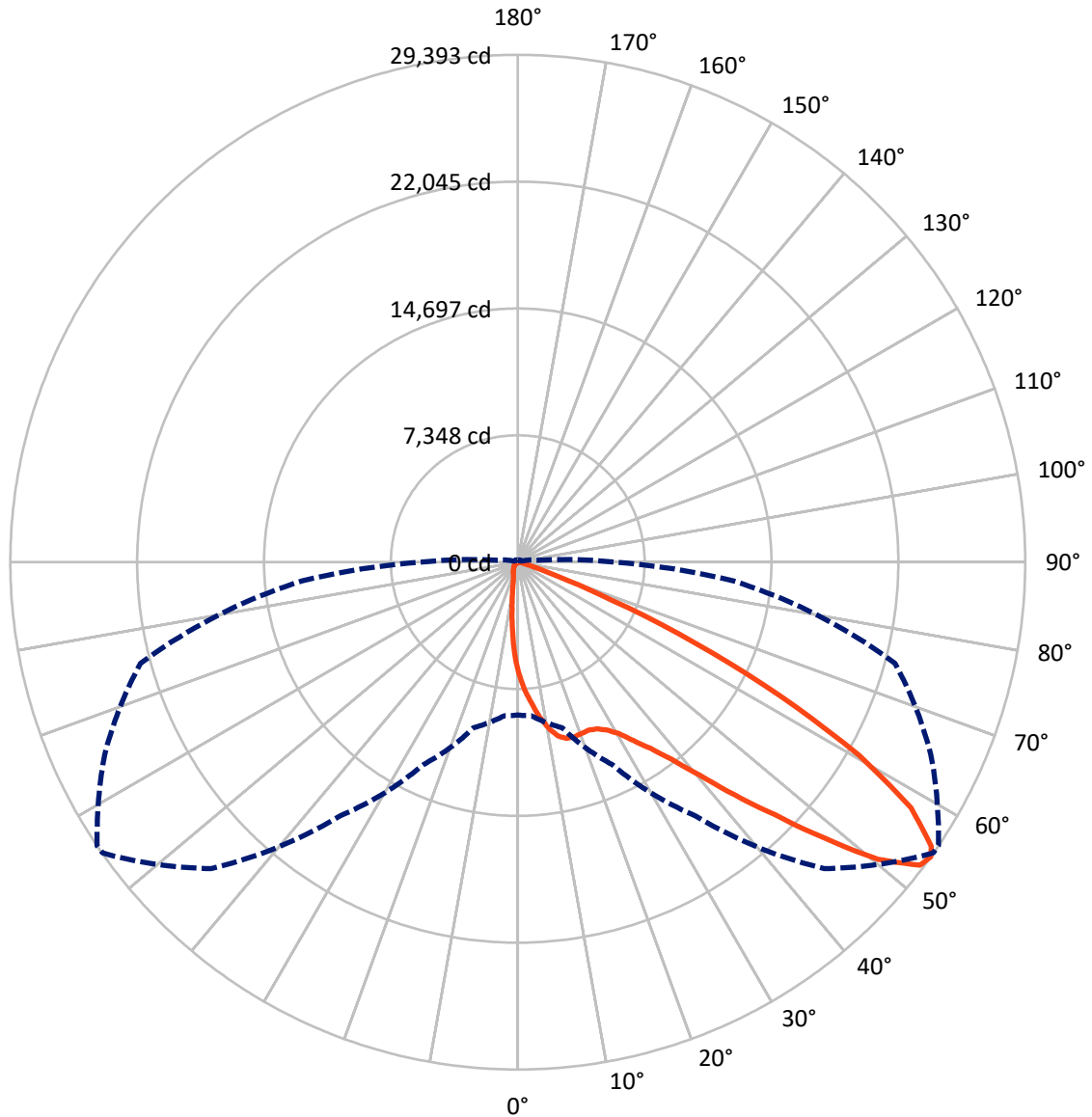
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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
House Side	Lumens	1364.1	0.0	1364.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	27481.9	0.0	27481.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	28846.0	0.0	28846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.3	2.0
10°-20°	1530.9	5.3
20°-30°	2651.5	9.2
30°-40°	4576.8	15.9
40°-50°	7789.9	27.0
50°-60°	7709.1	26.7
60°-70°	3518.6	12.2
70°-80°	451.9	1.6
80°-90°	50.9	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°	28846.0	100.0
0°-180°	28846.0	100.0

Coefficient of Utilization



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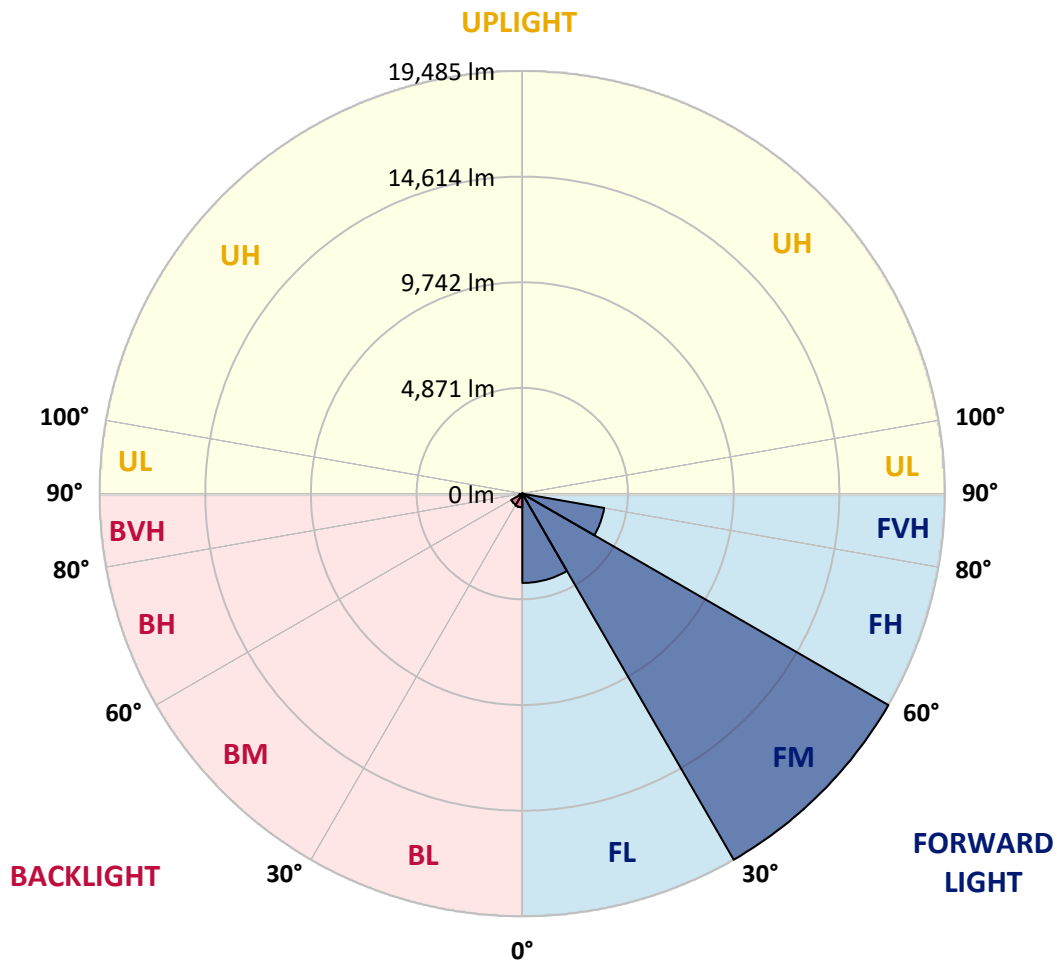
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4117.9	14.3			
FM (30°-60°)	19484.7	67.5			
FH (60°-80°)	3833.9	13.3			G2/5000
FVH (80°-90°)	45.5	0.2			G1/100
BL (0°-30°)	630.8	2.2	B2/1000		
BM (30°-60°)	591.2	2.0	B1/1000		
BH (60°-80°)	136.6	0.5	B1/500		G1/500
BVH (80°-90°)	5.5	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°	6408.8	6408.8	6408.8	6408.8	6408.8	6408.8	6408.8	6408.8	6408.8	6408.8	6408.8
2.5°	8144.7	8088.3	8010.5	7950.1	7808.1	7603.7	7387.7	7387.7	7179.4	6889.5	6593.6
5°	9394.2	9357.2	9281.3	9125.6	8966.0	8679.9	8245.9	8170.0	7798.3	7272.9	6720.1
7.5°	9902.1	9919.7	9923.5	9882.7	9806.8	9524.6	9094.5	9041.9	8448.3	7743.8	6885.6
10°	9415.6	9501.2	9584.9	9754.2	9993.6	10061.7	9818.4	9764.0	9180.1	8220.6	7064.6
12.5°	8691.6	8738.3	8785.0	9051.7	9532.4	10083.1	10338.1	10336.1	9841.8	8695.5	7292.3
15°	8354.9	8395.8	8399.7	8518.4	8934.9	9736.7	10559.9	10589.1	10487.9	9281.3	7537.5
17.5°	8425.0	8458.1	8430.8	8460.0	8678.0	9355.3	10534.6	10632.0	11011.5	9843.7	7759.4
20°	8882.3	8946.6	8841.5	8759.7	8825.9	9254.1	10449.0	10585.2	11381.2	10392.6	7961.8
22.5°	9703.6	9738.7	9606.3	9382.5	9265.7	9466.2	10425.7	10559.9	11696.5	10842.1	8078.6
25°	10616.4	10604.7	10458.7	10207.7	9962.5	9894.4	10579.4	10700.1	11957.3	11246.9	8113.6
27.5°	11529.1	11564.2	11318.9	11007.6	10713.7	10536.6	10923.9	11013.4	12251.2	11708.2	8156.4
30°	12589.8	12533.4	12292.0	11935.9	11599.2	11352.0	11478.5	11503.8	12656.0	12319.3	8269.3
32.5°	13969.6	13813.9	13543.4	12920.7	12679.3	12260.9	12292.0	12323.2	13148.4	12924.5	8405.5
35°	15841.9	15834.1	15304.7	14465.9	13878.2	13358.5	13222.3	13247.6	13893.7	13823.7	8707.2
37.5°	18095.5	18126.7	17523.4	16678.7	15596.6	14771.5	14491.2	14495.1	15026.4	15065.3	9166.5
40°	19930.8	20012.5	19652.5	19082.2	18013.8	16723.5	16252.5	16209.7	16618.4	16569.7	9822.3
42.5°	20720.9	20796.8	20931.1	21129.6	20541.9	19477.3	18366.0	18424.4	18549.0	18208.4	10558.0
45°	20333.6	20454.3	20981.7	22207.8	22760.5	22402.4	21077.1	20872.7	20345.3	19989.2	11297.5
47.5°	18720.3	19014.1	19895.7	21937.3	23871.8	25082.3	24136.5	23865.9	22143.6	21289.2	11768.5
50°	16067.6	16085.1	17313.2	19923.0	23295.7	26773.5	27260.1	27057.7	23819.2	22019.0	12005.9
52.5°	11647.9	12031.2	13156.1	16178.5	20800.7	26516.6	29251.0	29167.3	25547.4	22392.7	12348.5
54°	8855.1	8929.0	9929.4	12928.4	17934.0	25105.6	29373.6	29393.1	26405.7	22618.4	12550.9
55°	7259.2	7082.1	8133.1	11013.4	15978.1	23858.2	28972.7	29066.1	26791.0	22735.2	12700.7
57.5°	3440.8	3442.8	4246.6	5809.3	10007.2	18525.6	26522.5	26853.3	26833.9	22935.7	13162.0
60°	1741.8	1753.5	1930.6	2681.8	4943.3	12315.4	21929.5	22717.7	24769.0	22964.9	13313.8
62.5°	1218.3	1204.7	1175.5	1290.3	2080.5	6258.9	16326.5	17011.5	21044.0	21853.6	12831.1
65°	1043.1	1014.0	932.2	914.7	1050.9	2493.0	10168.8	11285.9	16067.6	18922.7	11457.1
67.5°	891.3	879.7	805.7	761.0	743.4	1086.0	5246.9	5834.6	10982.3	13601.8	8678.0
70°	757.1	751.2	706.5	650.0	601.4	650.0	1946.2	2411.3	6120.7	7323.5	4094.8
72.5°	615.0	620.8	628.6	556.6	506.0	461.2	831.0	967.2	2561.2	2617.6	1432.4
75°	539.1	533.3	533.3	484.6	422.3	342.5	457.4	492.4	784.3	727.9	332.8
77.5°	379.5	365.9	428.2	399.0	352.3	243.3	260.8	276.4	325.0	278.3	155.7
80°	262.7	262.7	274.4	358.1	317.2	177.1	159.6	171.3	192.7	165.4	89.5
82.5°	147.9	151.8	179.0	190.7	184.9	118.7	105.1	107.0	128.4	112.9	56.4
85°	17.5	29.2	103.1	101.2	75.9	52.5	58.4	60.3	79.8	70.1	33.1
87.5°	1.9	3.9	21.4	27.2	19.5	21.4	21.4	21.4	27.2	31.1	23.4
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°	6408.8	6408.8	6408.8	6408.8	6408.8	6408.8	6408.8	6408.8	6408.8	6408.8	6408.8
2.5°	6434.1	6286.1	5933.9	5525.2	5264.4	4840.1	4482.0	4223.2	4159.0	4034.4	4071.4
5°	6426.3	6118.8	5400.6	4641.6	3832.0	3228.7	2779.1	2424.9	2269.2	2166.1	2094.1
7.5°	6430.2	5949.5	4797.3	3588.7	2621.5	2029.9	1613.4	1397.4	1253.3	1193.0	1200.8
10°	6441.8	5758.7	4096.7	2658.5	1769.1	1311.7	1056.8	953.6	905.0	897.2	895.2
12.5°	6469.1	5550.5	3427.2	1973.4	1237.8	953.6	856.3	821.3	805.7	805.7	799.9
15°	6498.3	5320.8	2870.6	1467.4	953.6	819.3	774.6	757.1	747.3	747.3	745.4
17.5°	6498.3	5056.2	2351.0	1138.5	821.3	753.2	718.1	694.8	687.0	687.0	685.1
20°	6457.4	4748.7	1889.7	916.6	745.4	690.9	655.9	630.6	620.8	616.9	615.0
22.5°	6315.3	4338.0	1504.4	788.2	683.1	636.4	591.6	562.4	554.7	550.8	552.7
25°	6062.3	3874.8	1191.1	692.8	626.7	570.2	531.3	509.9	502.1	502.1	504.1
27.5°	5801.5	3390.2	943.9	620.8	558.6	508.0	476.8	463.2	461.2	467.1	469.0
30°	5560.2	2903.7	764.8	562.4	498.2	455.4	434.0	430.1	430.1	432.1	434.0
32.5°	5291.6	2477.5	640.3	511.8	449.6	412.6	400.9	400.9	404.8	404.8	408.7
35°	5122.3	2111.6	562.4	463.2	412.6	381.5	373.7	375.6	381.5	389.2	393.1
37.5°	5030.9	1819.7	511.8	424.3	377.6	356.1	348.4	352.3	365.9	379.5	381.5
40°	5038.6	1599.8	471.0	391.2	350.3	327.0	321.1	332.8	346.4	360.0	362.0
42.5°	5124.3	1436.3	432.1	352.3	327.0	293.9	291.9	303.6	309.4	323.1	325.0
45°	5225.5	1317.6	391.2	311.4	284.1	254.9	256.9	266.6	274.4	295.8	299.7
47.5°	5256.6	1235.8	344.5	264.7	233.5	223.8	225.8	231.6	247.2	266.6	268.6
50°	5291.6	1185.2	299.7	223.8	198.5	196.6	198.5	202.4	212.1	219.9	218.0
52.5°	5441.5	1183.3	262.7	194.6	169.3	173.2	175.2	173.2	165.4	153.7	149.9
54°	5581.6	1189.1	245.2	181.0	155.7	161.5	159.6	149.9	130.4	118.7	112.9
55°	5694.5	1195.0	235.5	171.3	147.9	149.9	151.8	132.3	107.0	95.4	91.5
57.5°	5916.4	1181.3	212.1	149.9	130.4	122.6	120.7	87.6	58.4	50.6	46.7
60°	5805.4	1066.5	192.7	128.4	110.9	99.3	81.7	48.7	29.2	21.4	21.4
62.5°	5369.5	905.0	171.3	105.1	91.5	75.9	42.8	27.2	13.6	7.8	5.8
65°	4803.2	761.0	153.7	83.7	72.0	48.7	23.4	17.5	5.8	0.0	0.0
67.5°	3571.2	564.4	130.4	66.2	54.5	31.1	15.6	9.7	1.9	0.0	0.0
70°	1654.2	344.5	110.9	50.6	38.9	23.4	11.7	5.8	0.0	0.0	0.0
72.5°	474.9	216.0	91.5	37.0	27.2	19.5	9.7	3.9	1.9	0.0	0.0
75°	165.4	173.2	68.1	27.2	21.4	13.6	7.8	3.9	1.9	0.0	0.0
77.5°	99.3	140.1	42.8	23.4	17.5	11.7	7.8	3.9	1.9	1.9	0.0
80°	56.4	93.4	27.2	19.5	15.6	9.7	5.8	3.9	1.9	1.9	0.0
82.5°	31.1	44.8	21.4	17.5	13.6	9.7	5.8	3.9	1.9	1.9	1.9
85°	25.3	23.4	17.5	15.6	11.7	7.8	5.8	1.9	0.0	0.0	0.0
87.5°	19.5	15.6	15.6	15.6	11.7	7.8	5.8	1.9	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)