

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: P455326

Luminaire Tested: **GALN-SA6C-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455326
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-SA6C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 31107 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

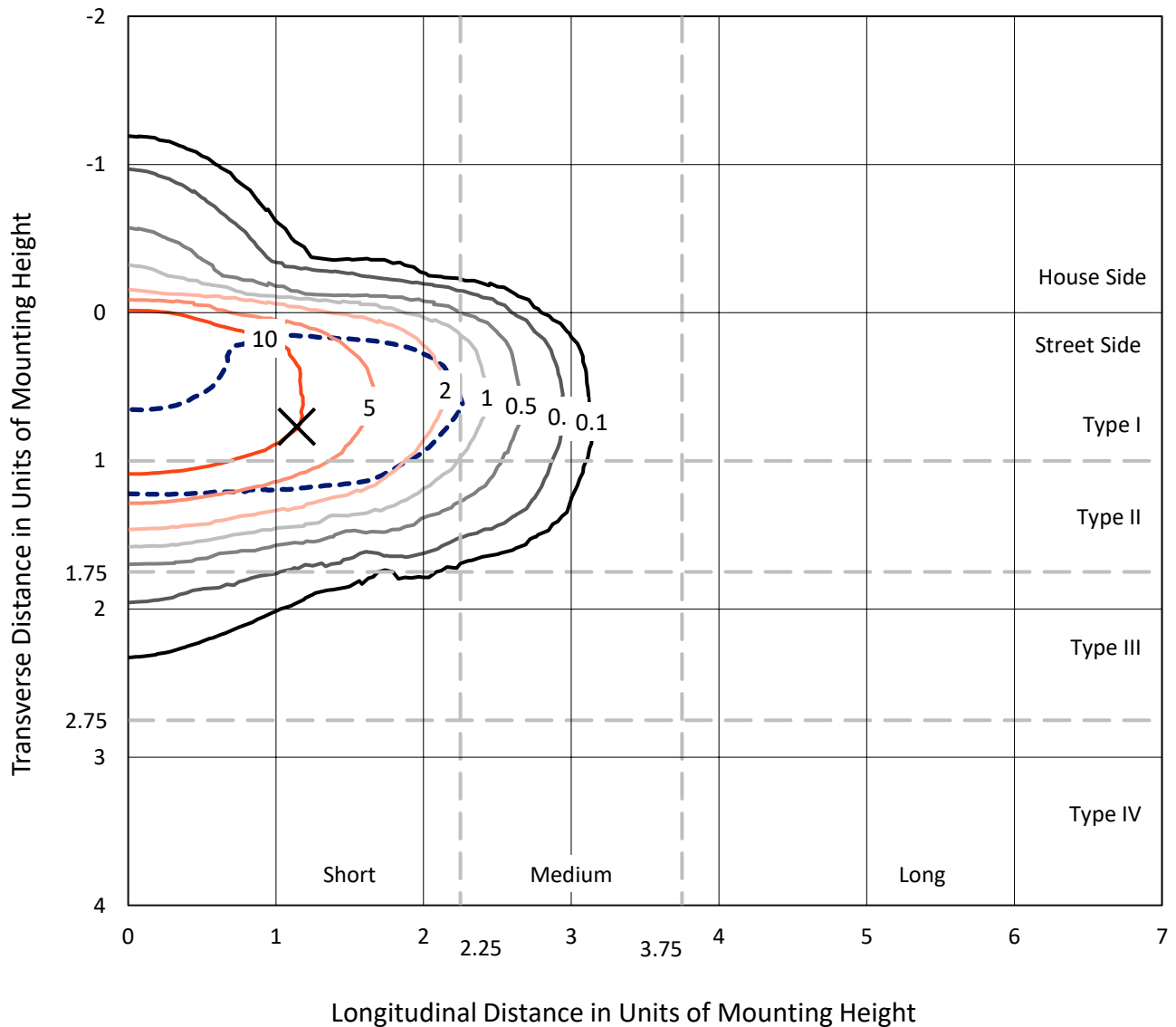
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

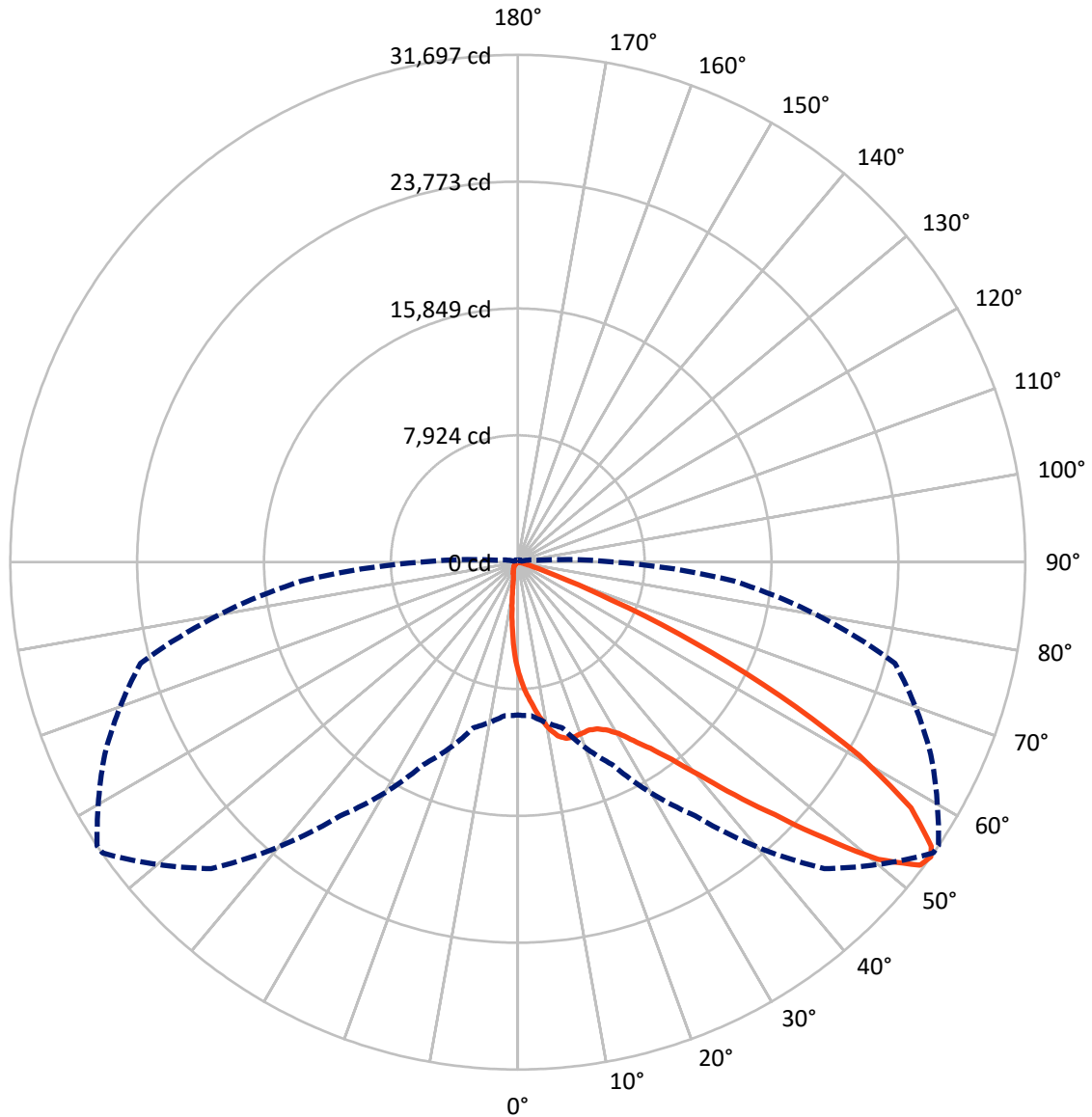
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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	1471.0	0.0	1471.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	29636.0	0.0	29636.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	31107.0	0.0	31107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.7	2.0
10°-20°	1650.9	5.3
20°-30°	2859.3	9.2
30°-40°	4935.6	15.9
40°-50°	8400.5	27.0
50°-60°	8313.4	26.7
60°-70°	3794.4	12.2
70°-80°	487.3	1.6
80°-90°	54.9	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°	31107.0	100.0
0°-180°	31107.0	100.0

Coefficient of Utilization



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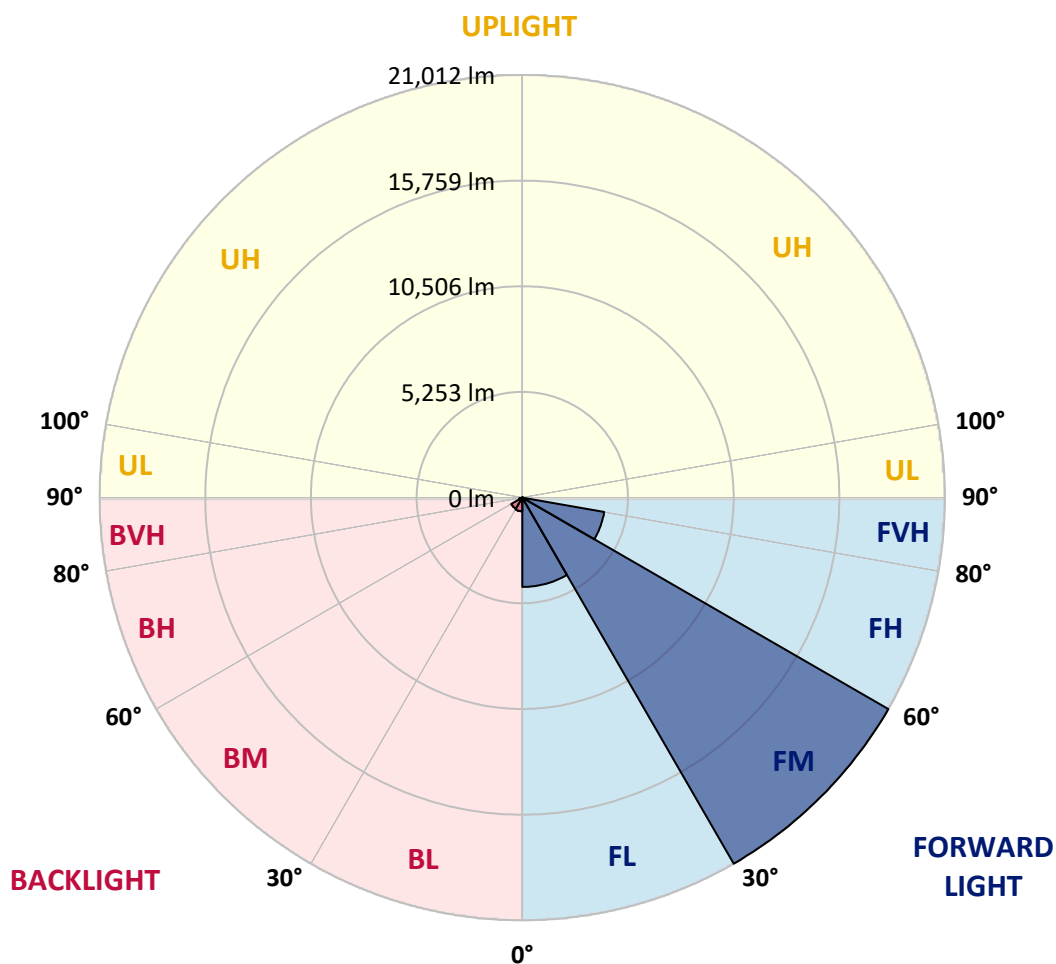
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4440.6	14.3			
FM (30°-60°)	21012.0	67.5			
FH (60°-80°)	4134.4	13.3			G2/5000
FVH (80°-90°)	49.0	0.2			G1/100
BL (0°-30°)	680.3	2.2	B2/1000		
BM (30°-60°)	637.5	2.0	B1/1000		
BH (60°-80°)	147.3	0.5	B1/500		G1/500
BVH (80°-90°)	5.9	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°	6911.1	6911.1	6911.1	6911.1	6911.1	6911.1	6911.1	6911.1	6911.1	6911.1	6911.1
2.5°	8783.1	8722.3	8638.3	8573.3	8420.1	8199.7	7966.7	7966.7	7742.2	7429.5	7110.5
5°	10130.5	10090.6	10008.8	9840.9	9668.8	9360.3	8892.3	8810.4	8409.6	7842.9	7246.9
7.5°	10678.3	10697.2	10701.4	10657.3	10575.4	10271.1	9807.3	9750.6	9110.5	8350.8	7425.3
10°	10153.6	10245.9	10336.2	10518.8	10776.9	10850.4	10588.0	10529.3	9899.7	8865.0	7618.3
12.5°	9372.9	9423.2	9473.6	9761.1	10279.5	10873.5	11148.4	11146.3	10613.2	9377.1	7863.9
15°	9009.8	9053.9	9058.1	9186.1	9635.2	10499.9	11387.6	11419.1	11310.0	10008.8	8128.3
17.5°	9085.4	9121.0	9091.7	9123.1	9358.2	10088.5	11360.4	11465.3	11874.6	10615.3	8367.6
20°	9578.6	9647.8	9534.5	9446.3	9517.7	9979.4	11268.0	11414.9	12273.3	11207.2	8585.9
22.5°	10464.2	10502.0	10359.3	10117.9	9992.0	10208.2	11242.8	11387.6	12613.3	11692.0	8711.8
25°	11448.5	11435.9	11278.5	11007.8	10743.3	10669.9	11408.6	11538.8	12894.5	12128.5	8749.6
27.5°	12432.8	12470.6	12206.1	11870.4	11553.4	11362.5	11780.1	11876.7	13211.4	12625.9	8795.7
30°	13576.6	13515.7	13255.5	12871.4	12508.4	12241.8	12378.2	12405.5	13648.0	13284.9	8917.5
32.5°	15064.6	14896.7	14605.0	13933.4	13673.2	13221.9	13255.5	13289.1	14178.9	13937.6	9064.4
35°	17083.6	17075.2	16504.3	15599.8	14966.0	14405.6	14258.7	14286.0	14982.8	14907.2	9389.7
37.5°	19513.9	19547.5	18896.9	17986.0	16819.1	15929.3	15627.1	15631.3	16204.2	16246.2	9885.0
40°	21493.0	21581.1	21192.9	20577.9	19425.7	18034.3	17526.4	17480.2	17921.0	17868.5	10592.2
42.5°	22345.1	22426.9	22571.7	22785.8	22152.0	21004.0	19805.6	19868.6	20002.9	19635.6	11385.5
45°	21927.4	22057.5	22626.3	23948.5	24544.5	24158.4	22729.1	22508.8	21940.0	21555.9	12183.1
47.5°	20187.6	20504.5	21455.2	23656.8	25742.9	27048.3	26028.3	25736.6	23879.2	22957.9	12691.0
50°	17327.0	17345.9	18670.2	21484.6	25121.7	28872.1	29396.8	29178.5	25686.2	23744.9	12947.0
52.5°	12560.8	12974.3	14187.3	17446.6	22431.1	28595.0	31543.7	31453.5	27549.9	24147.9	13316.4
54°	9549.2	9628.9	10707.7	13941.8	19339.7	27073.5	31676.0	31697.0	28475.4	24391.3	13534.6
55°	7828.2	7637.2	8770.5	11876.7	17230.5	25728.2	31243.6	31344.4	28891.0	24517.2	13696.2
57.5°	3710.5	3712.6	4579.4	6264.7	10791.6	19977.7	28601.3	28958.1	28937.1	24733.4	14193.6
60°	1878.4	1890.9	2081.9	2892.0	5330.7	13280.7	23648.4	24498.3	26710.4	24764.9	14357.3
62.5°	1313.8	1299.1	1267.6	1391.5	2243.5	6749.5	17606.2	18344.9	22693.4	23566.5	13836.9
65°	1124.9	1093.4	1005.3	986.4	1133.3	2688.5	10965.8	12170.5	17327.0	20405.8	12355.2
67.5°	961.2	948.6	868.9	820.6	801.7	1171.1	5658.1	6292.0	11843.1	14667.9	9358.2
70°	816.4	810.1	761.8	701.0	648.5	701.0	2098.7	2600.3	6600.5	7897.5	4415.7
72.5°	663.2	669.5	677.9	600.2	545.7	497.4	896.2	1043.1	2761.9	2822.8	1544.7
75°	581.3	575.0	575.0	522.6	455.4	369.4	493.2	531.0	845.8	784.9	358.9
77.5°	409.3	394.6	461.7	430.2	379.9	262.3	281.2	298.0	350.5	300.1	167.9
80°	283.3	283.3	295.9	386.2	342.1	191.0	172.1	184.7	207.8	178.4	96.5
82.5°	159.5	163.7	193.1	205.7	199.4	128.0	113.3	115.4	138.5	121.7	60.9
85°	18.9	31.5	111.2	109.1	81.9	56.7	63.0	65.1	86.0	75.6	35.7
87.5°	2.1	4.2	23.1	29.4	21.0	23.1	23.1	23.1	29.4	33.6	25.2
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°	6911.1	6911.1	6911.1	6911.1	6911.1	6911.1	6911.1	6911.1	6911.1	6911.1	6911.1
2.5°	6938.4	6778.9	6399.0	5958.3	5677.0	5219.5	4833.3	4554.2	4485.0	4350.6	4390.5
5°	6930.0	6598.4	5823.9	5005.4	4132.4	3481.8	2997.0	2615.0	2447.1	2335.9	2258.2
7.5°	6934.2	6415.8	5173.3	3870.0	2827.0	2189.0	1739.8	1506.9	1351.6	1286.5	1294.9
10°	6946.8	6210.1	4417.8	2866.8	1907.7	1414.5	1139.6	1028.4	975.9	967.5	965.4
12.5°	6976.1	5985.5	3695.8	2128.1	1334.8	1028.4	923.4	885.7	868.9	868.9	862.6
15°	7007.6	5737.9	3095.6	1582.4	1028.4	883.6	835.3	816.4	805.9	805.9	803.8
17.5°	7007.6	5452.5	2535.3	1227.8	885.7	812.2	774.4	749.2	740.8	740.8	738.7
20°	6963.5	5120.9	2037.9	988.5	803.8	745.0	707.3	680.0	669.5	665.3	663.2
22.5°	6810.3	4678.0	1622.3	850.0	736.7	686.3	638.0	606.5	598.1	593.9	596.0
25°	6537.5	4178.5	1284.4	747.1	675.8	614.9	573.0	549.9	541.5	541.5	543.6
27.5°	6256.3	3656.0	1017.9	669.5	602.3	547.8	514.2	499.5	497.4	503.7	505.8
30°	5996.0	3131.3	824.8	606.5	537.3	491.1	468.0	463.8	463.8	465.9	468.0
32.5°	5706.4	2671.7	690.5	552.0	484.8	444.9	432.3	432.3	436.5	436.5	440.7
35°	5523.8	2277.1	606.5	499.5	444.9	411.3	403.0	405.1	411.3	419.7	423.9
37.5°	5425.2	1962.3	552.0	457.5	407.2	384.1	375.7	379.9	394.6	409.3	411.3
40°	5433.6	1725.1	507.9	421.8	377.8	352.6	346.3	358.9	373.6	388.3	390.4
42.5°	5525.9	1548.9	465.9	379.9	352.6	316.9	314.8	327.4	333.7	348.4	350.5
45°	5635.1	1420.8	421.8	335.8	306.4	274.9	277.0	287.5	295.9	319.0	323.2
47.5°	5668.6	1332.7	371.5	285.4	251.8	241.4	243.5	249.7	266.5	287.5	289.6
50°	5706.4	1278.1	323.2	241.4	214.1	212.0	214.1	218.3	228.8	237.2	235.1
52.5°	5868.0	1276.0	283.3	209.9	182.6	186.8	188.9	186.8	178.4	165.8	161.6
54°	6019.1	1282.3	264.4	195.2	167.9	174.2	172.1	161.6	140.6	128.0	121.7
55°	6140.9	1288.6	253.9	184.7	159.5	161.6	163.7	142.7	115.4	102.8	98.6
57.5°	6380.1	1273.9	228.8	161.6	140.6	132.2	130.1	94.4	63.0	54.6	50.4
60°	6260.5	1150.1	207.8	138.5	119.6	107.0	88.1	52.5	31.5	23.1	23.1
62.5°	5790.4	975.9	184.7	113.3	98.6	81.9	46.2	29.4	14.7	8.4	6.3
65°	5179.6	820.6	165.8	90.2	77.7	52.5	25.2	18.9	6.3	0.0	0.0
67.5°	3851.1	608.6	140.6	71.4	58.8	33.6	16.8	10.5	2.1	0.0	0.0
70°	1783.9	371.5	119.6	54.6	42.0	25.2	12.6	6.3	0.0	0.0	0.0
72.5°	512.1	233.0	98.6	39.9	29.4	21.0	10.5	4.2	2.1	0.0	0.0
75°	178.4	186.8	73.5	29.4	23.1	14.7	8.4	4.2	2.1	0.0	0.0
77.5°	107.0	151.1	46.2	25.2	18.9	12.6	8.4	4.2	2.1	2.1	0.0
80°	60.9	100.7	29.4	21.0	16.8	10.5	6.3	4.2	2.1	2.1	0.0
82.5°	33.6	48.3	23.1	18.9	14.7	10.5	6.3	4.2	2.1	2.1	2.1
85°	27.3	25.2	18.9	16.8	12.6	8.4	6.3	2.1	0.0	0.0	0.0
87.5°	21.0	16.8	16.8	16.8	12.6	8.4	6.3	2.1	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)