

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: P458880

Luminaire Tested: **GALN-SA4A-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458880
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-SA4A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 13493 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

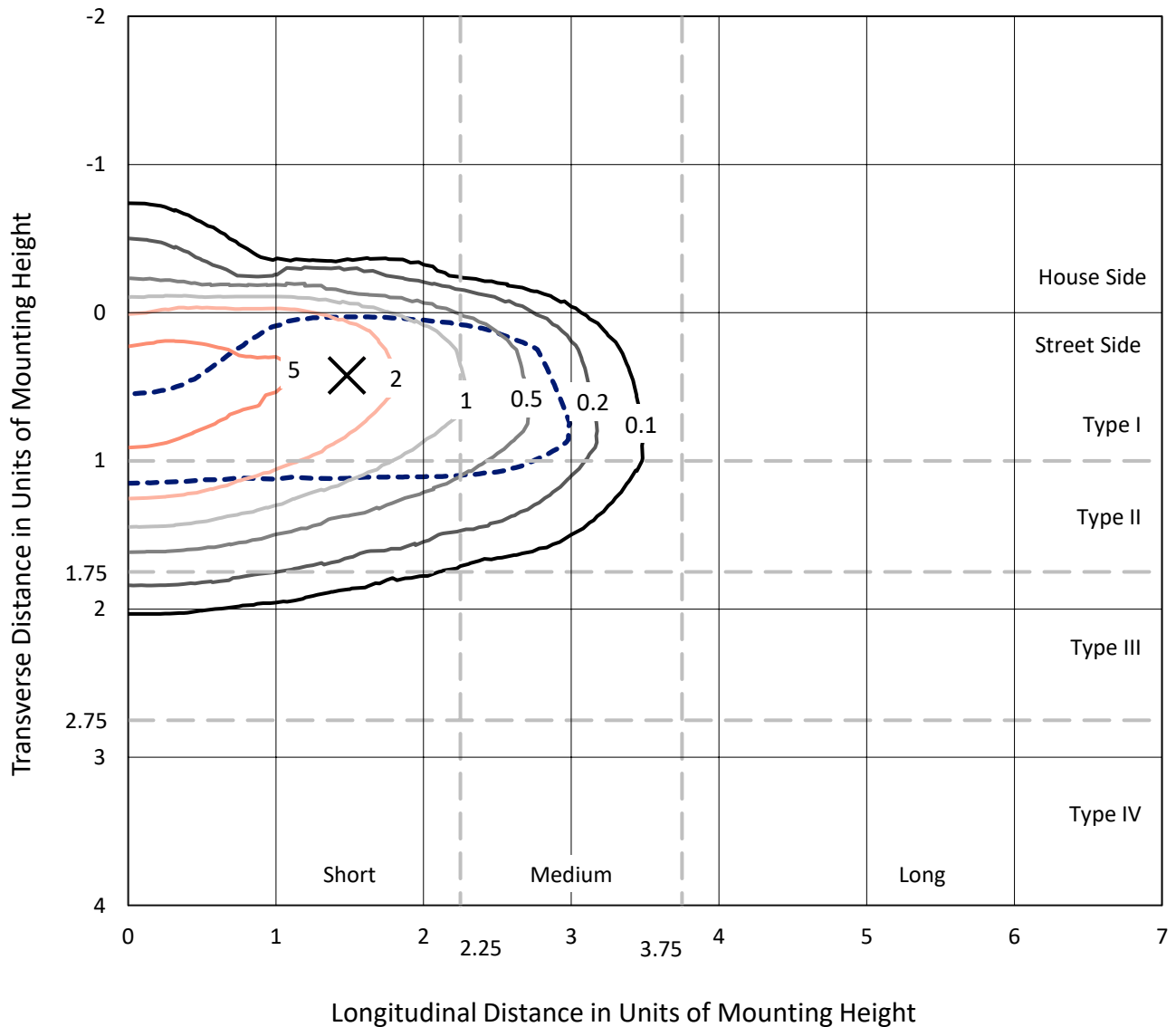
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

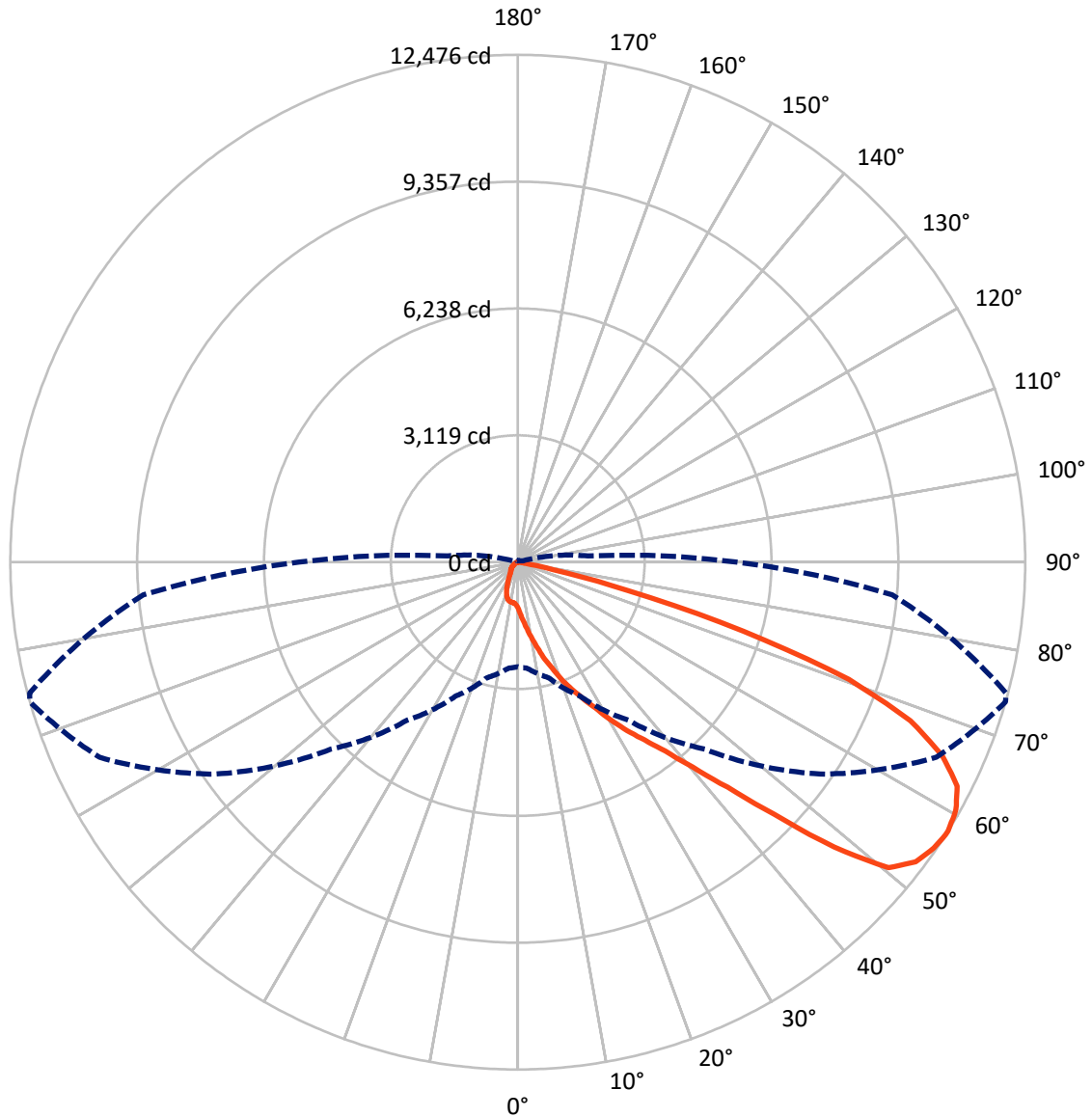
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	778.2	0.0	778.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	12714.8	0.0	12714.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	13493.0	0.0	13493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.0
10°-20°	537.6	4.0
20°-30°	1150.4	8.5
30°-40°	2114.4	15.7
40°-50°	3241.4	24.0
50°-60°	3428.9	25.4
60°-70°	2239.2	16.6
70°-80°	611.8	4.5
80°-90°	32.9	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°	13493.0	100.0
0°-180°	13493.0	100.0

Coefficient of Utilization

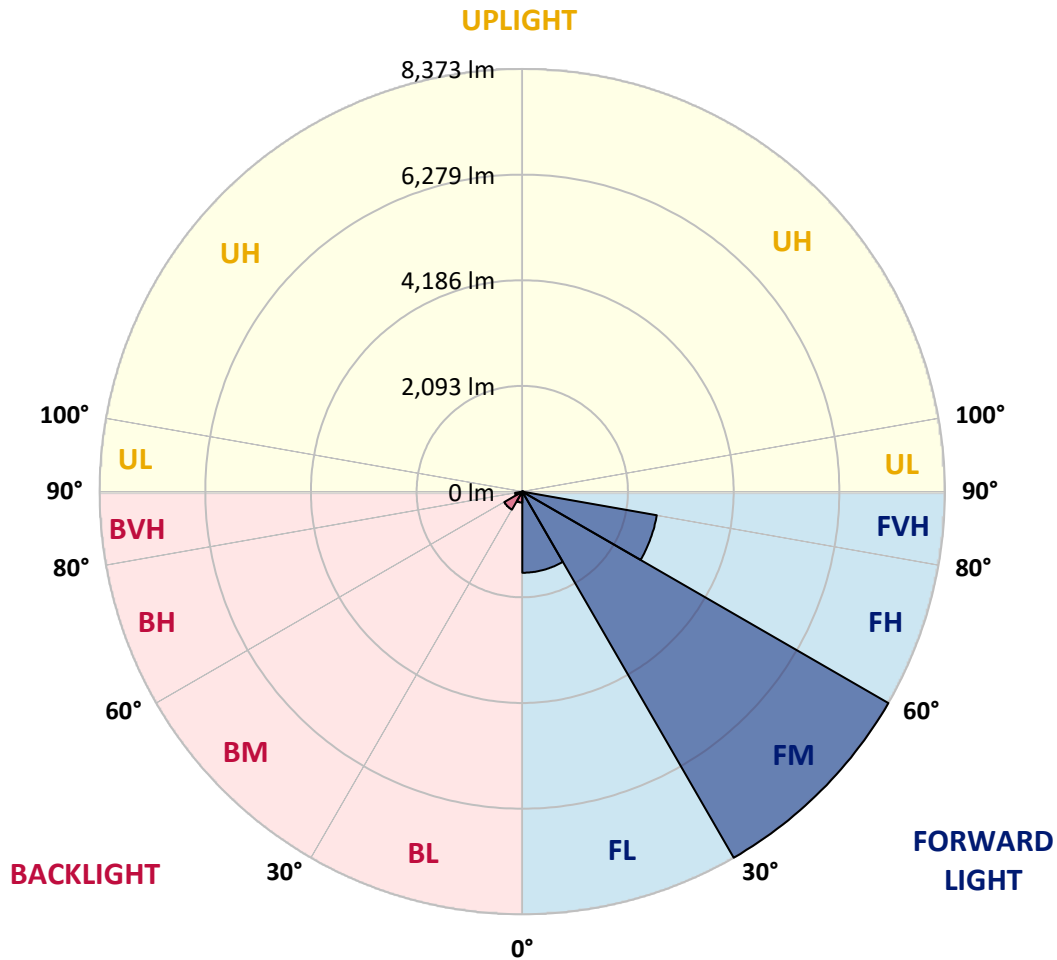


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1607.0	11.9			
FM (30°-60°)	8372.7	62.1			
FH (60°-80°)	2704.9	20.0			G2/5000
FVH (80°-90°)	30.2	0.2			G1/100
BL (0°-30°)	217.4	1.6	B1/500		
BM (30°-60°)	412.0	3.1	B1/1000		
BH (60°-80°)	146.1	1.1	B1/500		G1/500
BVH (80°-90°)	2.7	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°	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0
2.5°	1653.6	1638.7	1608.9	1598.6	1554.8	1486.8	1427.2	1347.1	1283.7	1277.2	1200.8
5°	2214.4	2180.9	2166.9	2099.8	1994.5	1895.8	1726.2	1597.7	1449.6	1438.4	1284.7
7.5°	2754.7	2708.1	2694.2	2630.8	2507.8	2352.3	2132.4	1898.6	1663.8	1642.4	1397.4
10°	3146.0	3152.5	3127.4	3085.4	2985.8	2827.4	2556.3	2236.8	1902.3	1875.3	1524.1
12.5°	3426.4	3425.5	3430.1	3429.2	3376.1	3255.9	2970.8	2602.9	2165.0	2111.9	1669.4
15°	3609.0	3611.8	3625.8	3674.2	3679.8	3605.3	3367.7	2953.1	2469.7	2403.5	1826.9
17.5°	3793.4	3813.0	3835.4	3881.0	3922.0	3892.2	3724.5	3318.3	2745.4	2696.0	1995.5
20°	4098.1	4125.1	4112.0	4140.0	4161.4	4164.2	4034.7	3655.6	3079.8	2996.9	2188.3
22.5°	4585.3	4584.4	4550.8	4500.5	4458.6	4456.7	4339.4	4002.1	3383.5	3303.4	2382.1
25°	5201.1	5203.9	5138.7	4995.2	4890.9	4763.2	4628.1	4305.8	3708.7	3609.9	2586.1
27.5°	5907.2	5889.5	5790.8	5593.3	5386.5	5168.5	4973.8	4658.9	4053.4	3971.4	2819.9
30°	6541.6	6535.1	6419.6	6178.3	5906.3	5687.4	5405.1	5101.4	4499.6	4399.0	3081.7
32.5°	7132.3	7141.6	6981.4	6731.7	6469.0	6216.5	5918.4	5524.3	4937.4	4794.9	3366.8
35°	7593.4	7602.7	7436.9	7229.2	6959.0	6749.4	6465.2	5975.2	5369.7	5249.5	3694.7
37.5°	7839.3	7851.5	7755.5	7599.0	7430.4	7325.1	7060.5	6555.6	5895.1	5822.5	4082.2
40°	7885.9	7899.9	7858.0	7816.1	7806.7	7882.2	7804.9	7239.4	6623.6	6510.0	4659.8
42.5°	7746.2	7764.8	7783.5	7876.6	8066.7	8343.3	8612.6	8167.3	7561.7	7409.0	5366.0
45°	7379.1	7377.3	7450.9	7692.2	8117.9	8708.5	9456.6	9329.0	8839.9	8658.2	6363.7
47.5°	6751.2	6741.9	6901.2	7245.0	7908.3	8775.6	10145.0	10739.4	10471.1	10303.4	7436.0
50°	5794.5	5840.2	6090.7	6570.5	7387.5	8572.5	10357.4	11664.5	11809.8	11631.9	8302.3
52.5°	4673.8	4671.9	5065.1	5716.2	6616.2	8125.3	10209.3	11832.2	12244.8	12108.8	8729.0
55°	3459.0	3483.2	3892.2	4549.0	5614.7	7309.3	9725.8	11659.8	12410.7	12314.7	9010.4
57°	2573.1	2615.9	2943.8	3638.8	4742.7	6501.6	9082.1	11351.4	12475.9	12423.7	9244.2
57.5°	2401.6	2403.5	2723.0	3354.7	4487.5	6191.4	8897.6	11222.9	12474.0	12445.1	9282.4
60°	1478.4	1525.0	1745.8	2267.5	3284.8	4832.2	7661.4	10484.1	12377.1	12419.1	9445.4
62.5°	885.0	904.6	1048.0	1366.6	2117.5	3527.0	6269.6	9538.6	12124.7	12252.3	9434.2
65°	569.2	573.9	639.1	827.3	1323.8	2383.9	4831.2	8289.3	11471.6	11706.4	9065.3
67.5°	439.7	447.2	473.2	543.1	767.6	1485.0	3417.1	6956.2	10415.2	10718.0	8171.0
70°	390.3	394.1	403.4	425.7	507.7	838.4	2125.9	5434.0	8636.8	8722.5	6394.4
72.5°	318.6	328.9	357.7	365.2	402.4	523.6	1183.1	3647.2	5802.9	5824.3	3577.3
75°	246.9	248.7	291.6	313.0	339.1	360.5	528.2	1839.0	2787.3	2638.3	1378.8
77.5°	184.5	192.8	212.4	239.4	276.7	258.1	236.6	693.1	865.4	849.6	400.6
80°	118.3	123.0	148.1	179.8	215.2	168.6	133.2	203.1	190.0	195.6	96.0
82.5°	59.6	60.6	95.0	146.3	136.9	84.8	83.8	82.9	70.8	69.9	44.7
85°	6.5	14.0	61.5	83.8	61.5	27.9	39.1	38.2	37.3	38.2	26.1
87.5°	0.9	0.9	10.2	12.1	8.4	9.3	11.2	12.1	14.9	14.0	11.2
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°	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0
2.5°	1163.6	1126.3	1057.4	991.2	941.8	910.2	869.2	854.3	832.8	830.0	819.8
5°	1213.9	1143.1	1022.9	927.9	851.5	793.7	743.4	701.5	668.0	660.5	664.2
7.5°	1285.6	1180.3	1012.6	883.1	776.9	678.2	598.1	548.7	513.3	500.3	502.1
10°	1366.6	1229.7	1010.8	835.6	673.5	552.4	464.9	421.1	400.6	393.1	384.7
12.5°	1462.6	1286.5	1006.1	762.0	559.9	440.6	378.2	352.1	332.6	327.0	327.0
15°	1570.7	1347.1	983.8	670.7	454.6	364.3	322.3	301.8	295.3	289.7	289.7
17.5°	1683.4	1406.7	937.2	558.0	377.3	312.1	286.0	273.9	264.6	258.1	258.1
20°	1811.9	1465.4	862.7	458.3	318.6	278.5	258.1	244.1	236.6	231.0	229.2
22.5°	1934.0	1512.9	767.6	376.4	277.6	250.6	232.0	217.1	209.6	206.8	206.8
25°	2060.7	1541.8	653.0	311.2	253.4	227.3	206.8	194.7	188.2	186.3	185.4
27.5°	2183.7	1558.6	552.4	272.0	231.0	205.9	186.3	177.0	170.5	168.6	169.5
30°	2332.7	1561.3	454.6	244.1	211.5	185.4	167.7	159.3	155.6	153.7	152.8
32.5°	2483.6	1557.6	382.0	227.3	192.8	167.7	152.8	146.3	143.5	140.7	140.7
35°	2653.2	1538.1	325.1	210.5	175.1	152.8	139.7	134.1	130.4	127.6	126.7
37.5°	2863.7	1527.8	292.5	191.9	159.3	138.8	126.7	121.1	118.3	114.6	113.7
40°	3195.4	1573.5	282.3	175.1	143.5	125.8	114.6	108.1	104.3	100.6	99.7
42.5°	3609.0	1653.6	265.5	158.4	129.5	113.7	102.5	95.0	88.5	83.8	82.0
45°	4144.7	1758.8	239.4	140.7	117.4	100.6	90.4	81.0	72.7	68.9	68.0
47.5°	4706.4	1860.4	216.1	126.7	104.3	89.4	78.3	68.0	60.6	57.8	56.8
50°	5051.1	1880.9	201.2	110.9	91.3	77.3	66.1	56.8	52.2	49.4	49.4
52.5°	5208.5	1848.3	180.7	96.9	79.2	68.0	56.8	49.4	46.6	44.7	43.8
55°	5318.5	1798.0	153.7	83.8	68.0	57.8	50.3	44.7	41.0	39.1	38.2
57°	5382.7	1730.0	133.2	73.6	58.7	50.3	44.7	40.1	36.3	32.6	32.6
57.5°	5385.5	1703.9	127.6	72.7	55.9	48.4	43.8	39.1	34.5	30.7	29.8
60°	5302.6	1525.0	102.5	61.5	44.7	41.0	36.3	30.7	24.2	20.5	19.6
62.5°	5036.2	1297.7	84.8	52.2	36.3	31.7	26.1	23.3	16.8	12.1	12.1
65°	4632.8	1052.7	72.7	41.9	29.8	23.3	17.7	16.8	10.2	5.6	4.7
67.5°	4049.6	819.8	61.5	34.5	25.2	16.8	12.1	11.2	5.6	1.9	0.0
70°	3085.4	559.0	51.2	27.9	18.6	12.1	8.4	6.5	3.7	0.9	0.0
72.5°	1778.4	307.4	42.9	21.4	14.0	9.3	6.5	3.7	3.7	0.0	0.0
75°	635.3	132.3	32.6	15.8	11.2	7.5	4.7	1.9	2.8	0.9	0.0
77.5°	202.2	70.8	21.4	12.1	9.3	5.6	3.7	1.9	1.9	0.9	0.0
80°	59.6	37.3	13.0	10.2	6.5	4.7	2.8	0.9	1.9	0.9	0.0
82.5°	32.6	18.6	10.2	7.5	6.5	3.7	2.8	0.9	0.9	0.9	0.0
85°	16.8	11.2	8.4	7.5	6.5	3.7	2.8	0.9	0.0	0.9	0.9
87.5°	9.3	8.4	8.4	7.5	6.5	4.7	2.8	0.9	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)