

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: P459054

Luminaire Tested: **GALN-SA5C-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459054
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-SA5C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA 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: 26259 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

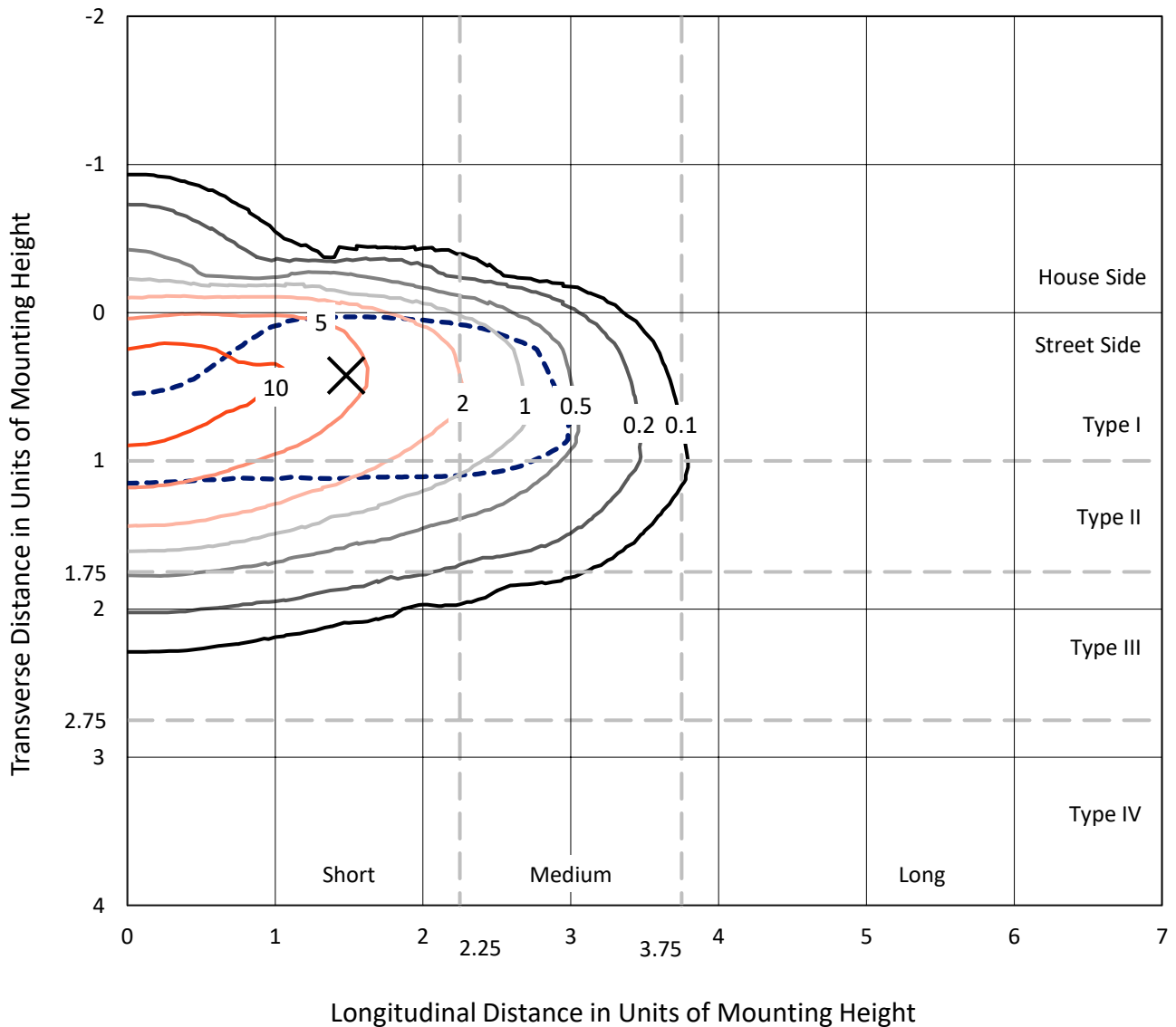
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

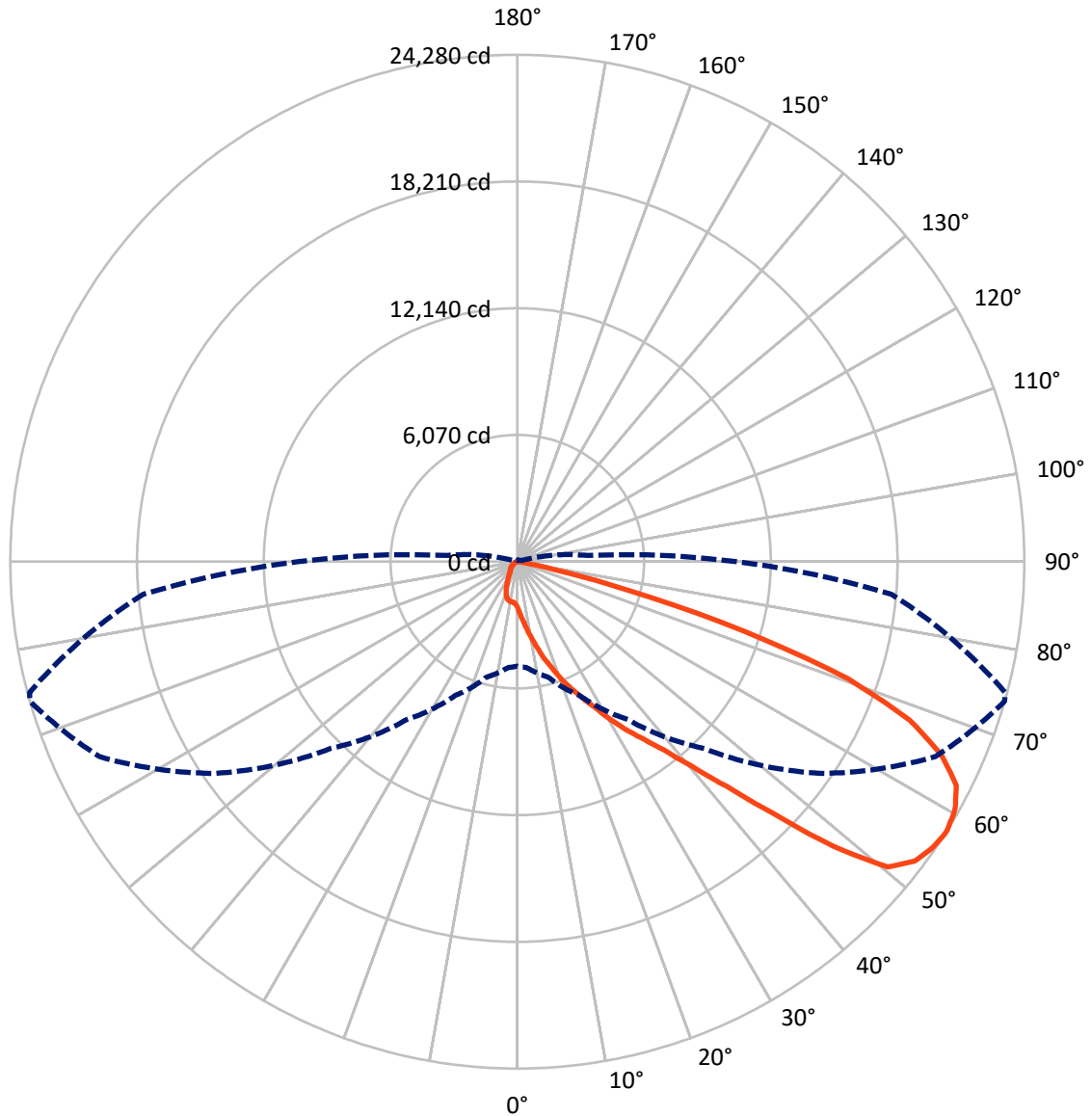
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	1514.5	0.0	1514.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	24744.5	0.0	24744.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	26259.0	0.0	26259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	1.0
10°-20°	1046.3	4.0
20°-30°	2238.8	8.5
30°-40°	4114.8	15.7
40°-50°	6308.1	24.0
50°-60°	6673.1	25.4
60°-70°	4357.7	16.6
70°-80°	1190.7	4.5
80°-90°	64.1	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°	26259.0	100.0
0°-180°	26259.0	100.0

Coefficient of Utilization



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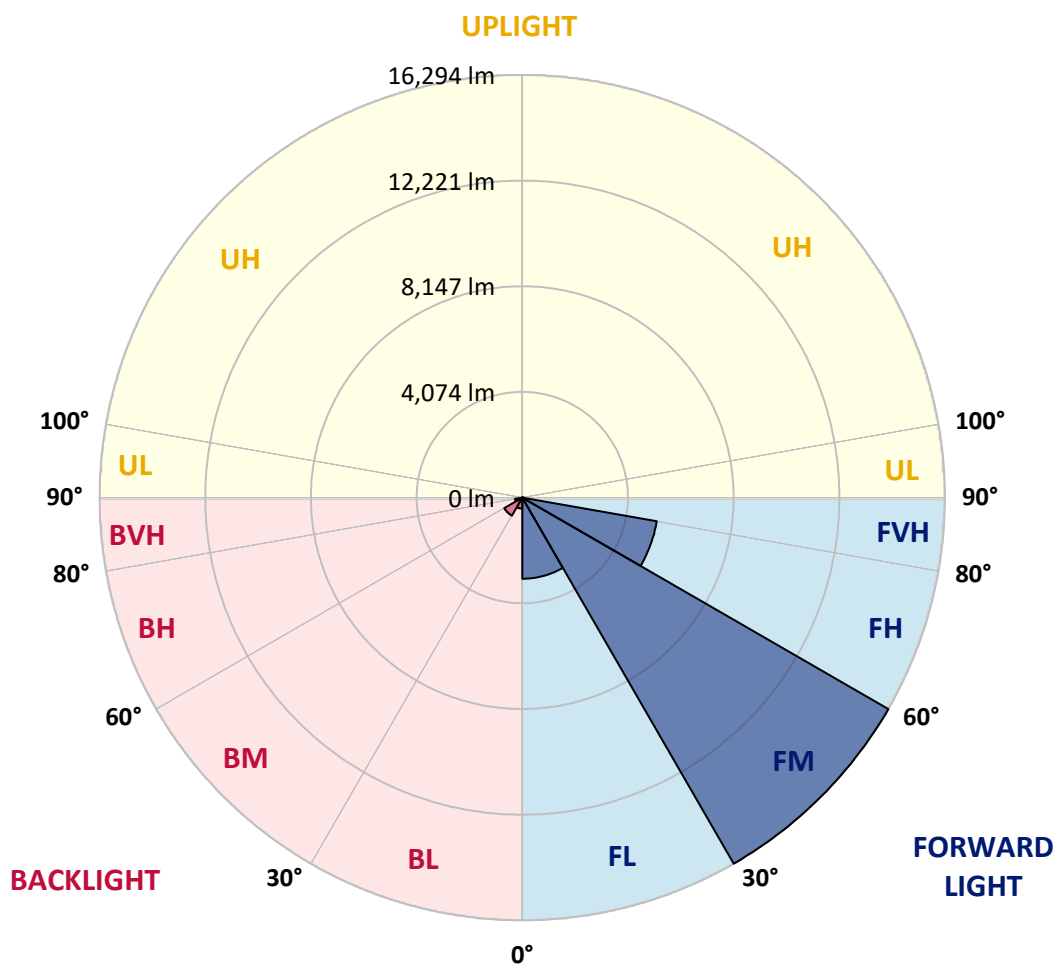
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3127.4	11.9			
FM (30°-60°)	16294.2	62.1			
FH (60°-80°)	5264.1	20.0			G3/7500
FVH (80°-90°)	58.8	0.2			G1/100
BL (0°-30°)	423.1	1.6	B1/500		
BM (30°-60°)	801.8	3.1	B1/1000		
BH (60°-80°)	284.3	1.1	B1/500		G1/500
BVH (80°-90°)	5.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2
2.5°	3218.1	3189.0	3131.0	3111.1	3025.9	2893.5	2777.5	2621.6	2498.3	2485.6	2336.9
5°	4309.5	4244.2	4217.0	4086.5	3881.6	3689.4	3359.5	3109.3	2821.0	2799.3	2500.1
7.5°	5361.0	5270.4	5243.2	5119.9	4880.6	4577.8	4149.9	3694.9	3238.0	3196.3	2719.5
10°	6122.5	6135.2	6086.2	6004.6	5810.6	5502.4	4974.8	4353.0	3702.1	3649.5	2966.1
12.5°	6668.2	6666.4	6675.4	6673.6	6570.3	6336.4	5781.6	5065.5	4213.4	4110.0	3248.9
15°	7023.5	7029.0	7056.2	7150.4	7161.3	7016.3	6554.0	5747.2	4806.2	4677.5	3555.3
17.5°	7382.5	7420.6	7464.1	7552.9	7632.7	7574.7	7248.3	6457.9	5342.9	5246.8	3883.4
20°	7975.3	8027.9	8002.5	8056.9	8098.6	8104.1	7852.1	7114.2	5993.7	5832.4	4258.7
22.5°	8923.5	8921.7	8856.5	8758.6	8677.0	8673.3	8444.9	7788.6	6584.8	6428.9	4635.8
25°	10121.9	10127.4	10000.5	9721.3	9518.2	9269.8	9006.9	8379.6	7217.5	7025.3	5032.9
27.5°	11496.2	11461.7	11269.5	10885.2	10482.7	10058.5	9679.6	9066.8	7888.3	7728.8	5487.9
30°	12730.8	12718.1	12493.3	12023.8	11494.4	11068.3	10519.0	9927.9	8756.7	8560.9	5997.4
32.5°	13880.3	13898.4	13586.5	13100.7	12589.4	12098.1	11517.9	10751.0	9608.8	9331.5	6552.1
35°	14777.7	14795.8	14473.1	14068.8	13543.0	13135.1	12582.2	11628.5	10450.1	10216.2	7190.3
37.5°	15256.3	15279.9	15093.1	14788.6	14460.4	14255.5	13740.7	12758.0	11472.6	11331.2	7944.5
40°	15347.0	15374.2	15292.6	15211.0	15192.9	15339.7	15189.2	14088.7	12890.4	12669.2	9068.6
42.5°	15075.0	15111.3	15147.5	15328.8	15698.7	16237.1	16761.1	15894.5	14716.0	14418.7	10442.8
45°	14360.7	14357.1	14500.3	14969.9	15798.4	16947.8	18403.7	18155.3	17203.5	16849.9	12384.5
47.5°	13138.7	13120.6	13430.6	14099.6	15390.5	17078.4	19743.5	20900.2	20378.0	20051.7	14471.3
50°	11276.8	11365.6	11853.3	12787.0	14377.0	16683.1	20156.8	22700.4	22983.3	22637.0	16157.4
52.5°	9095.8	9092.1	9857.2	11124.5	12875.9	15812.9	19868.6	23026.8	23829.9	23565.2	16987.7
55°	6731.6	6778.8	7574.7	8852.8	10926.9	14224.7	18927.6	22691.4	24152.7	23965.9	17535.2
57°	5007.5	5090.9	5729.0	7081.5	9229.9	12652.9	17674.8	22091.3	24279.6	24178.0	17990.3
57.5°	4673.9	4677.5	5299.4	6528.6	8733.2	12049.1	17315.9	21841.1	24275.9	24219.7	18064.6
60°	2877.2	2967.9	3397.5	4412.8	6392.6	9404.0	14910.0	20403.4	24087.4	24169.0	18381.9
62.5°	1722.3	1760.4	2039.6	2659.7	4120.9	6864.0	12201.4	18563.2	23596.1	23844.4	18360.2
65°	1107.7	1116.8	1243.7	1609.9	2576.3	4639.4	9402.2	16132.0	22325.2	22782.0	17642.2
67.5°	855.7	870.2	921.0	1057.0	1493.9	2889.9	6650.0	13537.6	20269.2	20858.5	15901.7
70°	759.6	766.9	785.0	828.5	988.1	1631.7	4137.2	10575.2	16808.2	16975.0	12444.4
72.5°	620.0	640.0	696.2	710.7	783.2	1018.9	2302.5	7097.9	11293.1	11334.8	6961.9
75°	480.4	484.1	567.5	609.2	659.9	701.6	1028.0	3578.8	5424.5	5134.4	2683.2
77.5°	359.0	375.3	413.4	465.9	538.5	502.2	460.5	1348.9	1684.3	1653.4	779.6
80°	230.2	239.3	288.3	349.9	418.8	328.2	259.3	395.2	369.8	380.7	186.7
82.5°	116.0	117.8	184.9	284.6	266.5	165.0	163.2	161.4	137.8	136.0	87.0
85°	12.7	27.2	119.7	163.2	119.7	54.4	76.1	74.3	72.5	74.3	50.8
87.5°	1.8	1.8	19.9	23.6	16.3	18.1	21.8	23.6	29.0	27.2	21.8
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°	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2
2.5°	2264.4	2191.9	2057.7	1929.0	1832.9	1771.3	1691.5	1662.5	1620.8	1615.4	1595.4
5°	2362.3	2224.5	1990.7	1805.7	1657.1	1544.7	1446.8	1365.2	1299.9	1285.4	1292.7
7.5°	2501.9	2297.1	1970.7	1718.7	1512.0	1319.9	1163.9	1067.9	999.0	973.6	977.2
10°	2659.7	2393.1	1967.1	1626.3	1310.8	1075.1	904.7	819.5	779.6	765.1	748.8
12.5°	2846.4	2503.7	1958.0	1483.0	1089.6	857.5	736.1	685.3	647.2	636.4	636.4
15°	3056.7	2621.6	1914.5	1305.4	884.7	708.9	627.3	587.4	574.7	563.8	563.8
17.5°	3276.1	2737.6	1823.9	1086.0	734.3	607.4	556.6	533.0	514.9	502.2	502.2
20°	3526.3	2851.8	1678.8	892.0	620.0	542.1	502.2	475.0	460.5	449.6	446.0
22.5°	3763.8	2944.3	1493.9	732.4	540.3	487.7	451.4	422.4	407.9	402.5	402.5
25°	4010.3	3000.5	1270.9	605.5	493.1	442.4	402.5	378.9	366.2	362.6	360.8
27.5°	4249.6	3033.1	1075.1	529.4	449.6	400.7	362.6	344.5	331.8	328.2	330.0
30°	4539.7	3038.6	884.7	475.0	411.5	360.8	326.3	310.0	302.8	299.1	297.3
32.5°	4833.4	3031.3	743.3	442.4	375.3	326.3	297.3	284.6	279.2	273.8	273.8
35°	5163.4	2993.2	632.7	409.7	340.8	297.3	271.9	261.1	253.8	248.4	246.6
37.5°	5573.1	2973.3	569.3	373.5	310.0	270.1	246.6	235.7	230.2	223.0	221.2
40°	6218.6	3062.1	549.3	340.8	279.2	244.8	223.0	210.3	203.1	195.8	194.0
42.5°	7023.5	3218.1	516.7	308.2	252.0	221.2	199.4	184.9	172.2	163.2	159.5
45°	8066.0	3422.9	465.9	273.8	228.4	195.8	175.9	157.7	141.4	134.2	132.3
47.5°	9159.2	3620.5	420.6	246.6	203.1	174.0	152.3	132.3	117.8	112.4	110.6
50°	9830.0	3660.4	391.6	215.7	177.7	150.5	128.7	110.6	101.5	96.1	96.1
52.5°	10136.4	3597.0	351.7	188.6	154.1	132.3	110.6	96.1	90.6	87.0	85.2
55°	10350.4	3499.1	299.1	163.2	132.3	112.4	97.9	87.0	79.8	76.1	74.3
57°	10475.5	3366.7	259.3	143.2	114.2	97.9	87.0	78.0	70.7	63.5	63.5
57.5°	10480.9	3316.0	248.4	141.4	108.8	94.3	85.2	76.1	67.1	59.8	58.0
60°	10319.5	2967.9	199.4	119.7	87.0	79.8	70.7	59.8	47.1	39.9	38.1
62.5°	9801.0	2525.5	165.0	101.5	70.7	61.6	50.8	45.3	32.6	23.6	23.6
65°	9016.0	2048.7	141.4	81.6	58.0	45.3	34.4	32.6	19.9	10.9	9.1
67.5°	7881.1	1595.4	119.7	67.1	49.0	32.6	23.6	21.8	10.9	3.6	0.0
70°	6004.6	1087.8	99.7	54.4	36.3	23.6	16.3	12.7	7.3	1.8	0.0
72.5°	3461.0	598.3	83.4	41.7	27.2	18.1	12.7	7.3	7.3	0.0	0.0
75°	1236.5	257.4	63.5	30.8	21.8	14.5	9.1	3.6	5.4	1.8	0.0
77.5°	393.4	137.8	41.7	23.6	18.1	10.9	7.3	3.6	3.6	1.8	0.0
80°	116.0	72.5	25.4	19.9	12.7	9.1	5.4	1.8	3.6	1.8	0.0
82.5°	63.5	36.3	19.9	14.5	12.7	7.3	5.4	1.8	1.8	1.8	0.0
85°	32.6	21.8	16.3	14.5	12.7	7.3	5.4	1.8	0.0	1.8	1.8
87.5°	18.1	16.3	16.3	14.5	12.7	9.1	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)