

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: P459062

Luminaire Tested: **GALN-SA5C-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23726 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

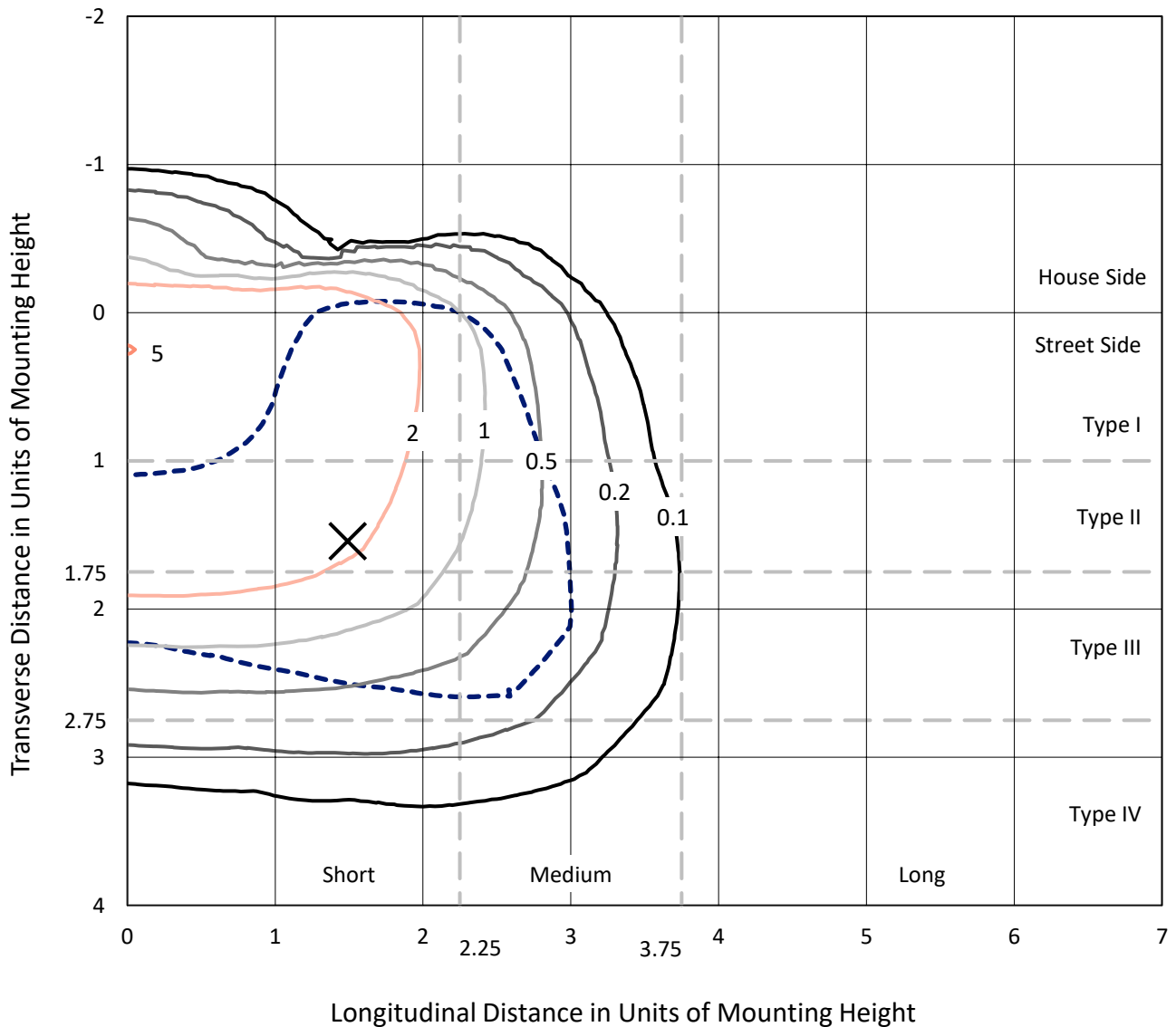
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

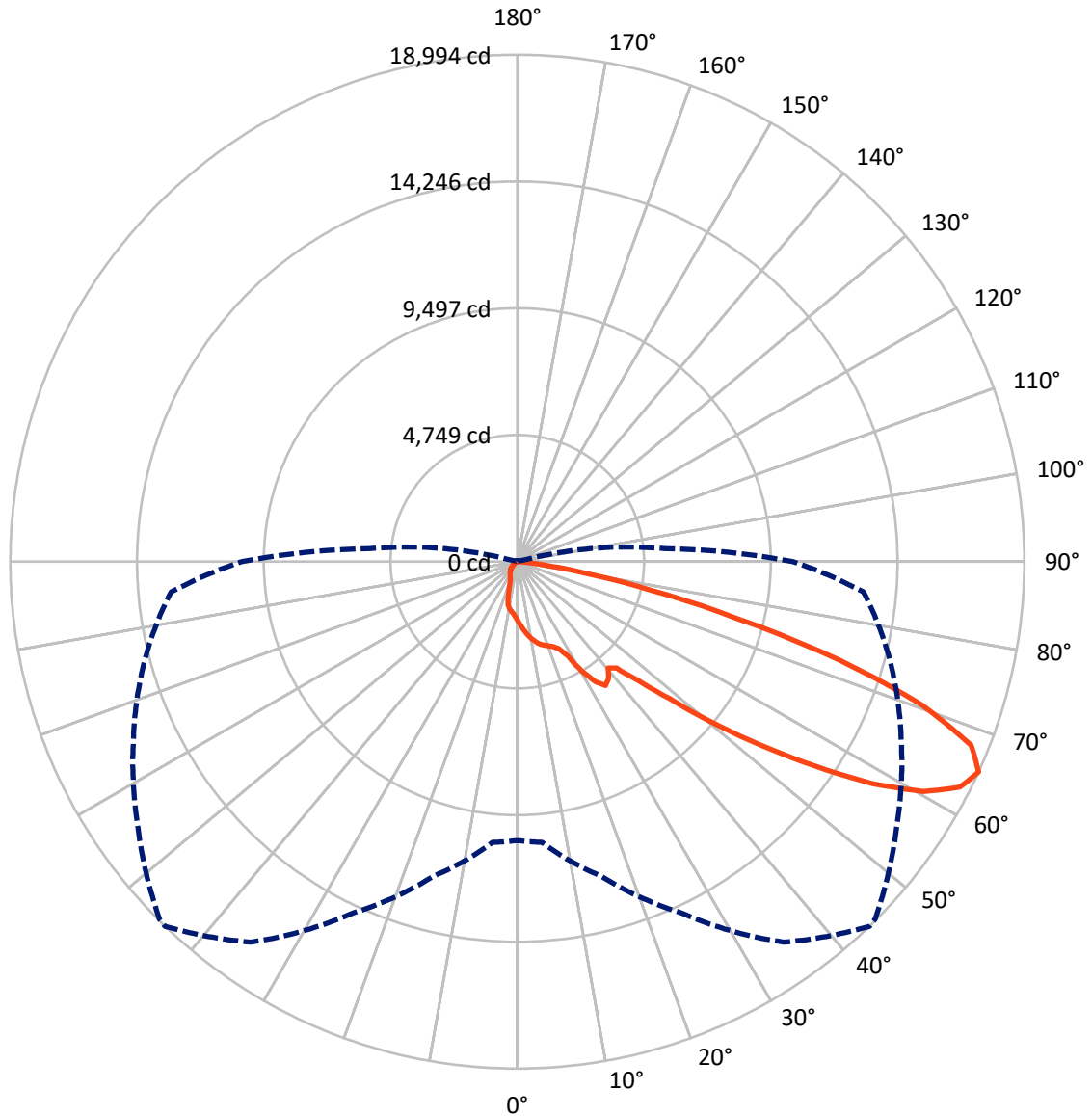
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2186.0	0.0	2186.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	21540.0	0.0	21540.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	23726.0	0.0	23726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	0.9
10°-20°	661.0	2.8
20°-30°	1120.8	4.7
30°-40°	1863.6	7.9
40°-50°	3253.8	13.7
50°-60°	6356.8	26.8
60°-70°	7375.4	31.1
70°-80°	2685.7	11.3
80°-90°	189.2	0.8
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°	23726.0	100.0
0°-180°	23726.0	100.0

Coefficient of Utilization



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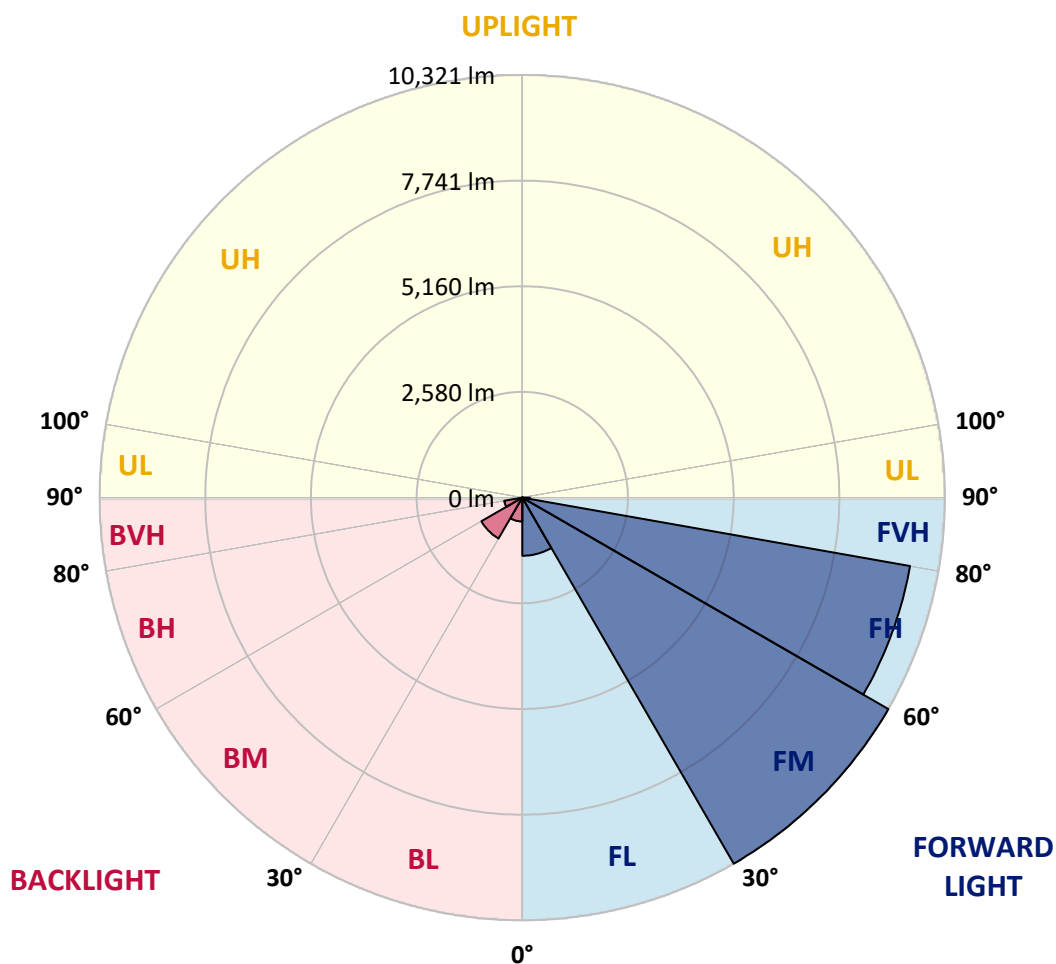
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1419.0	6.0			
FM (30°-60°)	10320.9	43.5			
FH (60°-80°)	9613.5	40.5			G4/12000
FVH (80°-90°)	186.7	0.8			G2/225
BL (0°-30°)	582.4	2.5	B2/1000		
BM (30°-60°)	1153.3	4.9	B2/2500		
BH (60°-80°)	447.7	1.9	B1/500		G1/500
BVH (80°-90°)	2.6	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2208.2	2208.2	2208.2	2208.2	2208.2	2208.2	2208.2	2208.2	2208.2	2208.2	2208.2
2.5°	2485.6	2474.7	2469.2	2440.2	2418.5	2391.3	2391.3	2356.8	2317.0	2273.4	2233.6
5°	2762.9	2744.8	2721.3	2695.9	2645.1	2572.6	2572.6	2500.1	2416.7	2342.3	2260.8
7.5°	3029.5	3013.1	2973.3	2924.3	2840.9	2764.8	2759.3	2654.2	2554.5	2442.1	2326.0
10°	3263.3	3250.6	3216.2	3121.9	3034.9	2935.2	2933.4	2815.5	2699.5	2561.7	2418.5
12.5°	3426.5	3428.3	3383.0	3292.3	3179.9	3085.7	3078.4	2962.4	2840.9	2692.2	2516.4
15°	3542.5	3542.5	3495.4	3393.9	3292.3	3208.9	3201.7	3100.2	2975.1	2813.7	2623.4
17.5°	3575.2	3586.0	3535.3	3444.6	3363.0	3290.5	3288.7	3203.5	3103.8	2947.9	2732.1
20°	3562.5	3573.3	3533.5	3462.8	3406.5	3364.9	3359.4	3325.0	3232.5	3085.7	2848.2
22.5°	3535.3	3546.1	3517.1	3475.4	3448.2	3460.9	3451.9	3480.9	3431.9	3254.3	2985.9
25°	3540.7	3551.6	3529.8	3506.3	3529.8	3607.8	3631.4	3756.4	3712.9	3468.2	3134.6
27.5°	3711.1	3732.9	3702.1	3712.9	3796.3	3977.6	4023.0	4238.7	4046.5	3740.1	3366.7
30°	4090.0	4075.5	4017.5	4070.1	4360.2	4744.5	4731.8	4697.4	4396.4	4053.8	3642.2
32.5°	4434.5	4421.8	4418.2	4644.8	5170.6	5357.3	5348.2	5014.6	4710.1	4412.7	3914.2
35°	4574.1	4525.1	4514.3	5063.6	5942.9	5696.3	5640.1	5145.2	5090.8	4804.3	4191.6
37.5°	4994.7	4960.3	4791.6	5132.5	5634.7	5553.1	5509.6	5370.0	5496.9	5150.6	4505.2
40°	5861.3	5765.2	5612.9	5279.3	5197.8	5232.2	5275.7	5658.2	5977.3	5623.8	4924.0
42.5°	6938.2	6916.4	6633.6	6011.8	5400.8	5447.9	5504.1	6260.1	6668.1	6336.3	5607.5
45°	8230.8	8261.7	7853.7	7119.5	6318.2	6358.0	6439.6	7148.5	7603.5	7444.0	6682.6
47.5°	9405.6	9382.1	9244.3	8481.0	7741.3	7652.5	7784.8	8288.8	8898.0	8923.4	8016.9
50°	10587.7	10712.8	10507.9	10208.8	9659.4	9472.7	9423.8	9670.3	10598.6	10477.1	9619.6
52.5°	12286.4	12351.7	11967.3	11891.2	12016.3	11410.8	11361.8	11421.6	12252.0	11835.0	10819.7
55°	13354.2	13316.2	13173.0	13767.6	14262.5	13506.5	13444.9	13203.8	13624.4	12794.0	11974.6
57.5°	13691.5	13745.8	14079.4	15154.5	16325.7	15683.9	15571.5	14886.2	14614.3	13687.8	13037.0
60°	13541.0	13640.7	14360.4	15959.5	17583.9	17487.8	17391.7	16240.5	15324.9	14434.8	13782.1
62.5°	12469.5	12609.1	13760.4	15816.2	18009.9	18610.0	18490.4	17085.3	15798.1	14797.4	13912.6
65°	10449.9	10553.2	12206.6	14516.4	17404.4	18994.4	18950.9	17350.0	15872.4	14465.6	13018.9
67.5°	7449.4	7801.2	9333.1	12233.8	15613.2	18338.1	18412.4	17032.7	15174.5	13031.5	10781.7
70°	4682.9	4922.2	6020.8	8758.4	12516.7	16088.2	16332.9	15580.6	13169.3	10158.0	7217.4
72.5°	2233.6	2411.2	3194.4	5544.0	8834.5	12658.1	12852.1	12790.4	10183.4	6399.7	3723.8
75°	995.3	1062.4	1524.7	2830.0	5703.6	8508.2	9010.4	9093.8	6363.5	3131.0	1448.6
77.5°	507.6	509.4	714.3	1370.6	2848.2	5076.3	5176.0	5467.9	3450.1	1379.7	504.0
80°	270.1	288.3	378.9	647.2	1477.6	2500.1	2487.4	2733.9	1530.1	676.2	168.6
82.5°	121.5	134.2	213.9	339.0	721.6	948.2	1022.5	1118.6	656.3	431.5	74.3
85°	36.3	43.5	105.2	170.4	261.1	273.8	306.4	395.2	371.7	306.4	38.1
87.5°	5.4	5.4	43.5	47.1	38.1	48.9	50.8	56.2	119.7	112.4	19.9
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°	2208.2	2208.2	2208.2	2208.2	2208.2	2208.2	2208.2	2208.2	2208.2	2208.2	2208.2
2.5°	2211.8	2199.1	2153.8	2115.7	2083.1	2063.1	2039.6	2025.1	2017.8	2012.4	2014.2
5°	2220.9	2190.1	2112.1	2050.5	2003.3	1952.6	1918.1	1898.2	1889.1	1874.6	1874.6
7.5°	2271.6	2222.7	2113.9	2019.6	1938.1	1869.2	1803.9	1780.3	1764.0	1760.4	1756.8
10°	2344.2	2282.5	2133.9	2003.3	1887.3	1793.0	1700.6	1619.0	1555.5	1517.4	1512.0
12.5°	2434.8	2346.0	2164.7	1992.4	1843.8	1677.0	1432.2	1267.3	1156.7	1122.2	1127.7
15°	2518.2	2422.1	2195.5	1983.4	1764.0	1390.5	1113.2	924.6	868.4	863.0	864.8
17.5°	2617.9	2503.7	2231.8	1970.7	1544.6	1062.4	826.7	775.9	786.8	805.0	803.1
20°	2721.3	2590.7	2275.3	1894.5	1232.8	799.5	730.6	736.1	752.4	768.7	772.3
22.5°	2831.8	2690.4	2326.0	1711.4	940.9	696.2	692.6	699.8	716.1	734.2	737.9
25°	2984.1	2815.5	2364.1	1472.1	712.5	643.6	650.9	663.5	678.0	698.0	701.6
27.5°	3179.9	2984.1	2384.0	1160.3	616.4	596.5	598.3	616.4	634.5	652.7	652.7
30°	3433.7	3185.4	2344.2	877.5	569.3	551.1	543.9	554.8	578.3	596.5	598.3
32.5°	3660.4	3375.7	2239.0	670.8	534.8	509.4	491.3	493.1	502.2	513.1	514.9
35°	3887.0	3560.6	2059.5	563.8	498.6	469.6	442.4	427.9	420.6	415.2	420.6
37.5°	4177.1	3790.9	1820.2	513.1	467.7	431.5	393.4	362.6	337.2	320.9	324.5
40°	4550.5	4110.0	1537.4	480.4	438.7	395.2	344.5	304.6	261.1	246.6	239.3
42.5°	5166.9	4594.0	1240.1	453.2	409.7	357.2	293.7	239.3	199.4	184.9	188.5
45°	6140.5	5205.0	955.4	424.2	380.7	315.5	246.6	188.5	155.9	148.7	152.3
47.5°	7431.3	5995.5	736.1	391.6	344.5	270.1	194.0	148.7	128.7	126.9	125.1
50°	8646.0	6731.5	614.6	355.3	301.0	224.8	159.5	125.1	112.4	110.6	110.6
52.5°	9744.7	7259.1	500.4	313.6	253.8	184.9	134.2	110.6	99.7	94.3	94.3
55°	10721.8	7603.5	406.1	262.9	199.4	146.8	116.0	99.7	87.0	79.8	78.0
57.5°	11459.7	7645.2	304.6	210.3	148.7	114.2	99.7	87.0	72.5	63.5	59.8
60°	11775.2	7284.5	224.8	159.5	110.6	90.6	79.8	70.7	54.4	45.3	43.5
62.5°	11457.9	6582.9	166.8	121.5	85.2	67.1	56.2	52.6	38.1	27.2	25.4
65°	10321.2	5569.4	132.3	92.5	63.5	48.9	36.3	34.4	23.6	12.7	10.9
67.5°	8268.9	4362.0	105.2	68.9	45.3	32.6	23.6	21.8	12.7	3.6	3.6
70°	5377.2	2788.3	85.2	50.8	29.0	21.8	14.5	10.9	7.3	1.8	0.0
72.5°	2659.6	1303.5	68.9	39.9	19.9	10.9	5.4	3.6	5.4	0.0	0.0
75°	1031.6	464.1	50.8	27.2	10.9	5.4	3.6	0.0	1.8	0.0	0.0
77.5°	342.6	154.1	30.8	14.5	7.3	3.6	0.0	0.0	0.0	0.0	0.0
80°	126.9	59.8	16.3	9.1	3.6	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	50.8	23.6	10.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.4	14.5	7.3	5.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	10.9	7.3	5.4	3.6	1.8	0.0	0.0	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)