

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: P454213

Luminaire Tested: **GALN-SA5B-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20921 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

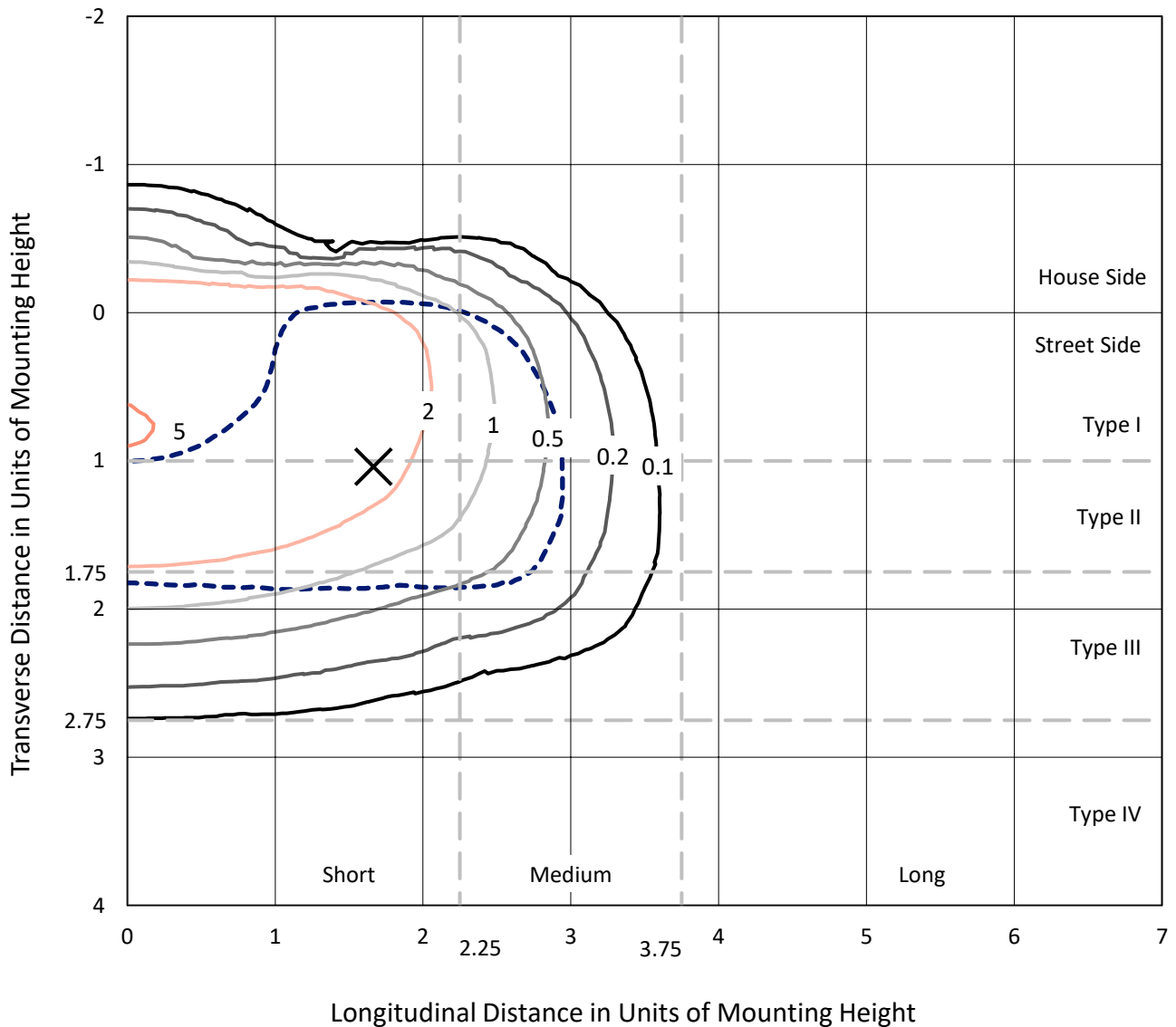
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

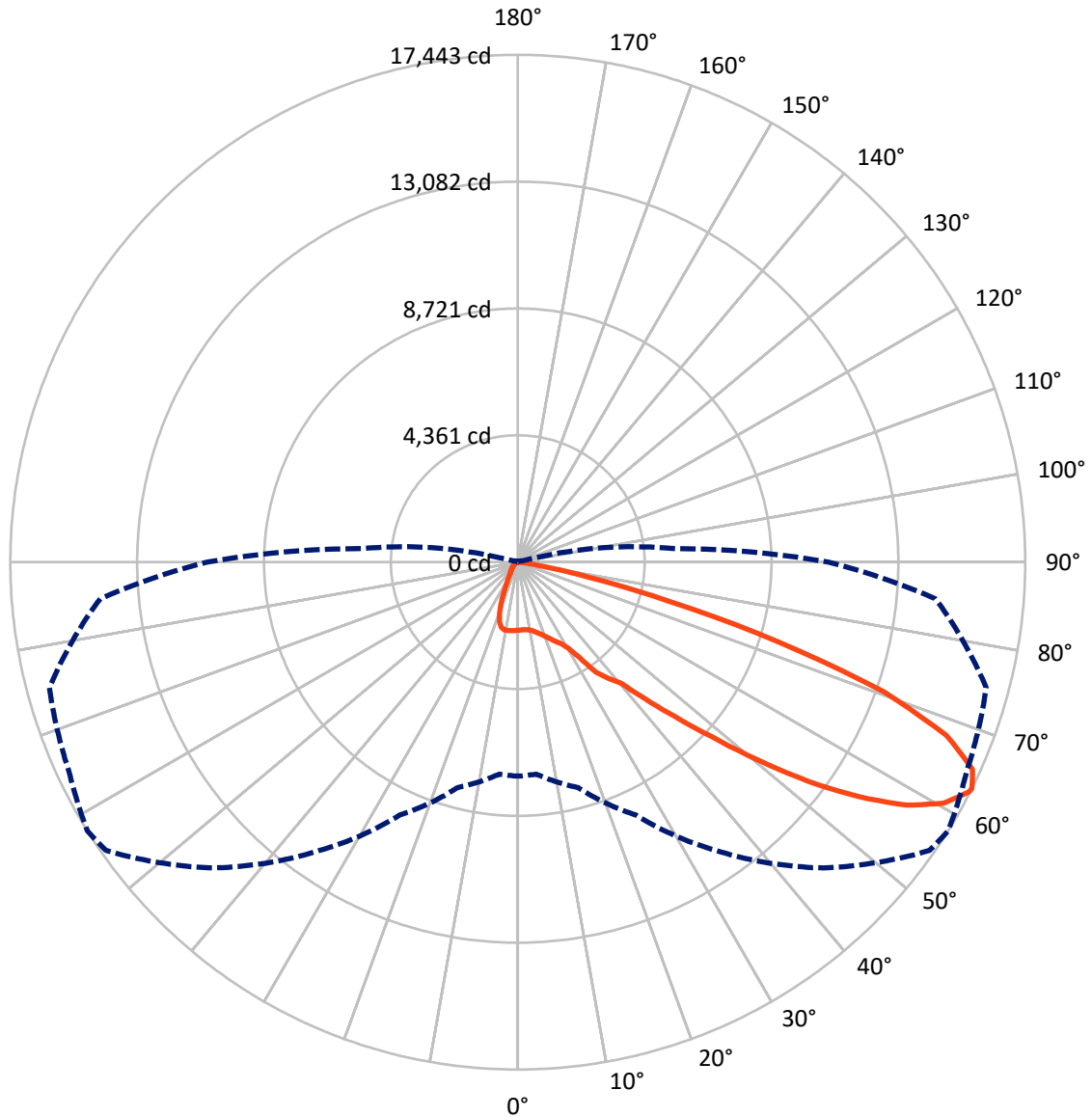
✕ Max cd
 - - - 1/2 Max cd



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 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2166.2	0.0	2166.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18754.8	0.0	18754.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	20921.0	0.0	20921.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	1.0
10°-20°	597.2	2.9
20°-30°	1036.4	5.0
30°-40°	1904.6	9.1
40°-50°	3585.3	17.1
50°-60°	6132.5	29.3
60°-70°	5871.8	28.1
70°-80°	1497.3	7.2
80°-90°	76.6	0.4
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°	20921.0	100.0
0°-180°	20921.0	100.0



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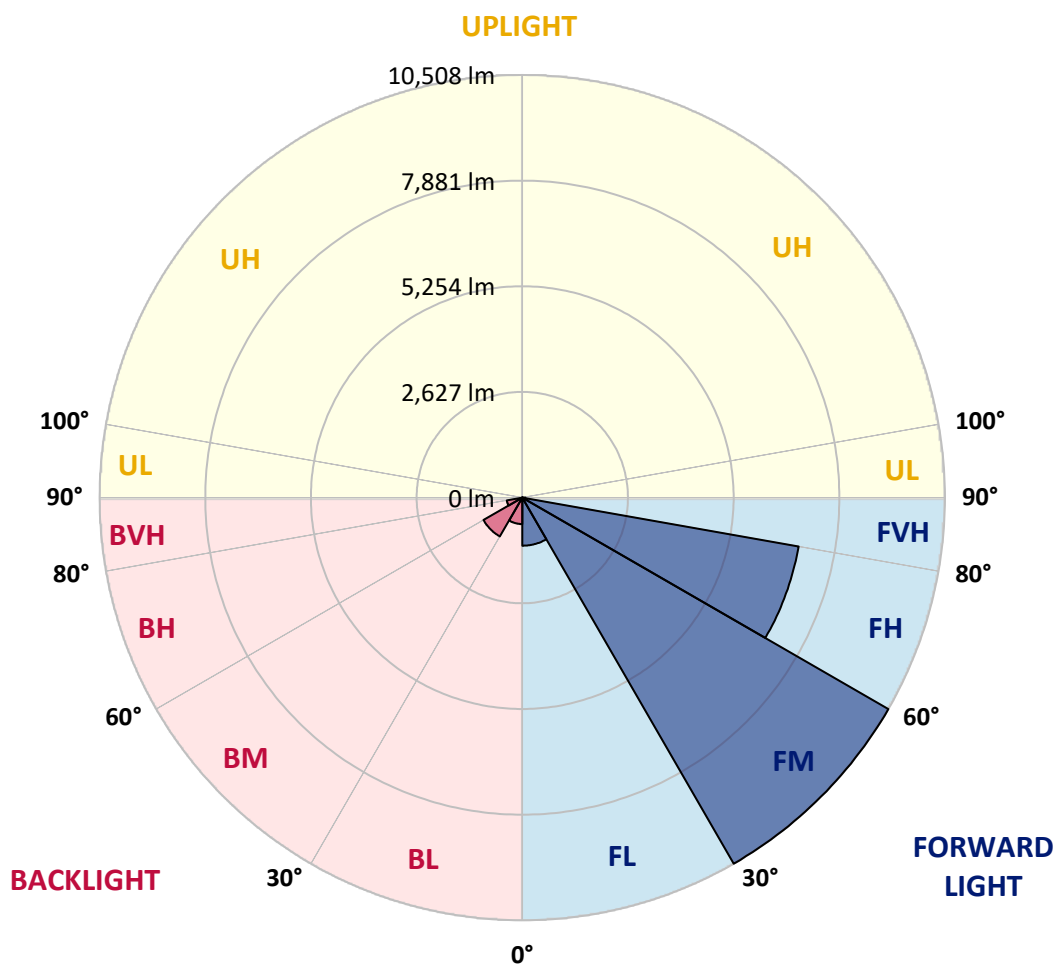
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1195.9	5.7			
FM (30°-60°)	10508.2	50.2			
FH (60°-80°)	6977.0	33.3			G3/7500
FVH (80°-90°)	73.6	0.4			G1/100
BL (0°-30°)	657.0	3.1	B2/1000		
BM (30°-60°)	1114.2	5.3	B2/2500		
BH (60°-80°)	392.1	1.9	B1/500		G1/500
BVH (80°-90°)	3.0	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2
2.5°	2283.9	2291.8	2299.7	2302.8	2313.8	2324.9	2332.7	2331.2	2343.8	2350.1	2350.1
5°	2192.6	2192.6	2213.0	2231.9	2263.4	2294.9	2324.9	2331.2	2354.8	2376.8	2384.7
7.5°	2115.4	2120.1	2135.8	2170.5	2213.0	2268.2	2328.0	2342.2	2383.1	2432.0	2452.4
10°	2079.1	2082.3	2102.8	2139.0	2192.6	2268.2	2351.6	2378.4	2441.4	2518.6	2547.0
12.5°	2071.3	2076.0	2096.5	2137.4	2198.9	2290.2	2403.6	2432.0	2523.3	2622.6	2665.1
15°	2085.4	2088.6	2109.1	2153.2	2220.9	2329.6	2472.9	2512.3	2621.0	2736.0	2791.1
17.5°	2135.8	2132.7	2146.9	2183.1	2258.7	2378.4	2556.4	2603.7	2731.2	2888.7	2925.0
20°	2350.1	2329.6	2317.0	2285.5	2315.4	2447.7	2657.2	2726.5	2884.0	3044.7	3069.9
22.5°	2811.6	2765.9	2676.1	2553.3	2458.7	2542.2	2778.5	2858.8	3062.0	3219.5	3219.5
25°	3399.1	3340.8	3251.0	2983.3	2751.7	2698.2	2915.5	3016.3	3255.8	3414.8	3362.9
27.5°	4134.7	4089.0	3914.1	3602.3	3247.9	2970.7	3074.6	3167.5	3427.4	3619.6	3510.9
30°	4733.2	4711.2	4567.8	4289.0	3898.4	3493.6	3370.7	3432.2	3655.8	3877.9	3766.1
32.5°	5238.8	5238.8	5092.3	4832.4	4467.0	4107.9	3873.2	3917.3	4131.5	4388.3	4180.3
35°	5794.8	5775.9	5657.8	5410.5	5001.0	4684.4	4588.3	4648.1	4841.9	5032.5	4520.6
37.5°	6379.2	6372.9	6250.0	6010.6	5676.7	5278.2	5052.9	5068.7	5167.9	5284.5	4919.1
40°	7014.0	7023.4	6862.7	6714.7	6399.7	5991.7	5560.1	5460.9	5553.8	5883.0	5654.6
42.5°	7763.7	7741.7	7672.4	7470.7	7217.1	6973.0	6454.8	6418.6	6500.5	6853.3	6606.0
45°	8634.7	8666.2	8546.5	8434.7	8264.6	8061.4	7628.3	7565.2	7655.0	8203.2	7851.9
47.5°	9507.4	9477.4	9554.6	9534.1	9625.5	9474.3	9091.5	8962.4	9178.2	9697.9	9181.3
50°	10172.1	10205.1	10365.8	10600.5	10992.7	11077.7	10710.7	10666.6	10762.7	11096.6	10370.5
52.5°	10603.6	10713.9	10965.9	11569.2	12276.4	12826.1	12547.3	12523.7	12484.3	12574.1	11507.7
55°	10885.6	10997.4	11326.6	12215.0	13432.5	14325.6	14339.8	14239.0	13979.1	13914.5	12570.9
57.5°	10712.3	10734.4	11203.7	12391.4	14073.6	15395.1	15858.2	15757.4	15277.0	15032.8	13509.7
60°	9628.6	9674.3	10328.0	11723.5	13794.8	15744.8	16864.7	16819.0	16292.9	16017.3	14240.6
62.5°	7708.6	7840.9	8513.5	10069.7	12498.5	15155.7	17272.6	17401.8	16992.3	16612.7	14470.5
63°	7355.8	7313.2	8023.6	9587.7	12155.1	14864.3	17278.9	17442.8	17023.8	16669.4	14407.5
65°	5445.2	5572.7	6034.2	7560.5	10115.3	13508.1	16889.9	17179.7	16907.2	16418.9	13709.7
67.5°	3057.3	3051.0	3561.3	4947.4	7080.1	10595.8	15272.3	15885.0	15828.3	14733.6	11364.4
70°	1496.4	1520.0	1729.5	2564.3	4106.3	7310.1	12690.7	13352.2	13372.7	11572.3	7858.2
72.5°	677.3	688.3	838.0	1249.1	2110.6	3892.1	8745.0	9376.6	9260.1	7374.7	4339.4
75°	357.5	381.2	461.5	628.5	1017.5	1605.0	4756.8	5368.0	5123.8	3369.2	1597.2
77.5°	264.6	272.5	313.4	400.1	545.0	625.3	2052.4	2441.4	2287.1	1219.1	529.2
80°	193.7	200.0	233.1	283.5	343.4	318.2	773.4	886.8	795.4	414.3	162.2
82.5°	118.1	119.7	170.1	211.1	215.8	178.0	255.2	274.1	286.7	233.1	88.2
85°	42.5	53.6	115.0	152.8	127.6	89.8	107.1	118.1	129.2	148.1	52.0
87.5°	4.7	6.3	55.1	74.0	36.2	33.1	39.4	44.1	47.3	55.1	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°	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2
2.5°	2356.4	2362.7	2357.9	2350.1	2348.5	2343.8	2334.3	2334.3	2334.3	2337.5	2334.3
5°	2391.0	2395.7	2384.7	2369.0	2351.6	2329.6	2306.0	2291.8	2290.2	2287.1	2279.2
7.5°	2457.2	2463.5	2438.3	2400.5	2353.2	2299.7	2249.3	2202.0	2180.0	2162.6	2162.6
10°	2553.3	2559.6	2509.1	2441.4	2346.9	2238.2	2118.5	2009.8	1924.8	1885.4	1876.0
12.5°	2668.2	2671.4	2587.9	2469.8	2313.8	2104.3	1849.2	1611.3	1445.9	1370.3	1362.5
15°	2794.2	2772.2	2661.9	2480.8	2219.3	1828.7	1387.7	1096.3	924.6	874.2	893.1
17.5°	2921.8	2880.9	2718.6	2463.5	2006.7	1387.7	932.5	748.2	694.6	680.4	680.4
20°	3041.5	2984.8	2759.6	2387.9	1638.1	956.1	691.5	647.4	637.9	628.5	630.0
22.5°	3161.2	3074.6	2795.8	2219.3	1220.7	683.6	619.0	604.8	592.2	579.6	578.1
25°	3277.8	3158.1	2810.0	1907.5	831.7	587.5	565.5	546.6	521.4	507.2	504.0
27.5°	3399.1	3258.9	2800.5	1513.7	606.4	526.1	504.0	477.3	447.3	422.1	422.1
30°	3632.2	3451.1	2767.5	1088.4	510.3	463.1	434.7	392.2	359.1	333.9	332.3
32.5°	3950.4	3701.5	2654.1	765.5	453.6	408.0	365.4	318.2	283.5	264.6	264.6
35°	4233.9	3953.5	2441.4	563.9	408.0	354.4	302.4	256.7	230.0	217.4	212.6
37.5°	4665.5	4322.1	2148.4	458.4	363.9	307.1	253.6	211.1	189.0	179.6	179.6
40°	5312.8	4772.6	1789.3	401.7	321.3	261.5	211.1	178.0	160.7	149.6	149.6
42.5°	6116.1	5323.9	1425.5	360.7	281.9	225.2	176.4	151.2	135.5	127.6	126.0
45°	7127.4	5905.1	1097.9	322.9	250.4	192.2	149.6	127.6	111.8	107.1	108.7
47.5°	8182.7	6417.0	850.6	289.8	217.4	162.2	127.6	110.3	99.2	92.9	92.9
50°	9083.7	6769.8	645.8	252.0	192.2	137.0	111.8	99.2	89.8	86.6	85.1
52.5°	9836.6	6872.2	494.6	218.9	168.5	118.1	99.2	89.8	81.9	77.2	77.2
55°	10477.6	6782.4	387.5	184.3	141.8	102.4	88.2	80.3	70.9	66.2	64.6
57.5°	10852.5	6494.2	296.1	152.8	115.0	85.1	77.2	67.7	56.7	48.8	48.8
60°	11041.5	6075.2	226.8	126.0	88.2	67.7	63.0	50.4	39.4	33.1	31.5
62.5°	10814.7	5519.2	171.7	99.2	66.2	50.4	42.5	36.2	25.2	18.9	18.9
63°	10674.5	5358.5	165.4	94.5	61.4	47.3	39.4	33.1	22.1	17.3	15.8
65°	9731.0	4657.6	135.5	75.6	48.8	33.1	26.8	23.6	15.8	7.9	6.3
67.5°	7727.5	3562.9	107.1	56.7	34.7	23.6	15.8	14.2	4.7	0.0	0.0
70°	5224.6	2301.2	83.5	41.0	23.6	14.2	7.9	6.3	1.6	0.0	0.0
72.5°	2724.9	1179.8	64.6	29.9	14.2	9.5	4.7	1.6	0.0	0.0	0.0
75°	964.0	401.7	47.3	18.9	9.5	4.7	1.6	0.0	0.0	0.0	0.0
77.5°	291.4	149.6	29.9	14.2	6.3	3.2	0.0	0.0	0.0	0.0	0.0
80°	102.4	55.1	17.3	9.5	4.7	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	50.4	26.8	11.0	7.9	4.7	1.6	0.0	0.0	0.0	0.0	0.0
85°	28.4	17.3	9.5	7.9	4.7	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	20.5	12.6	9.5	7.9	6.3	3.2	1.6	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)