

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: P458969

Luminaire Tested: **GALN-SA4D-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458969
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-SA4D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA 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: 20930 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

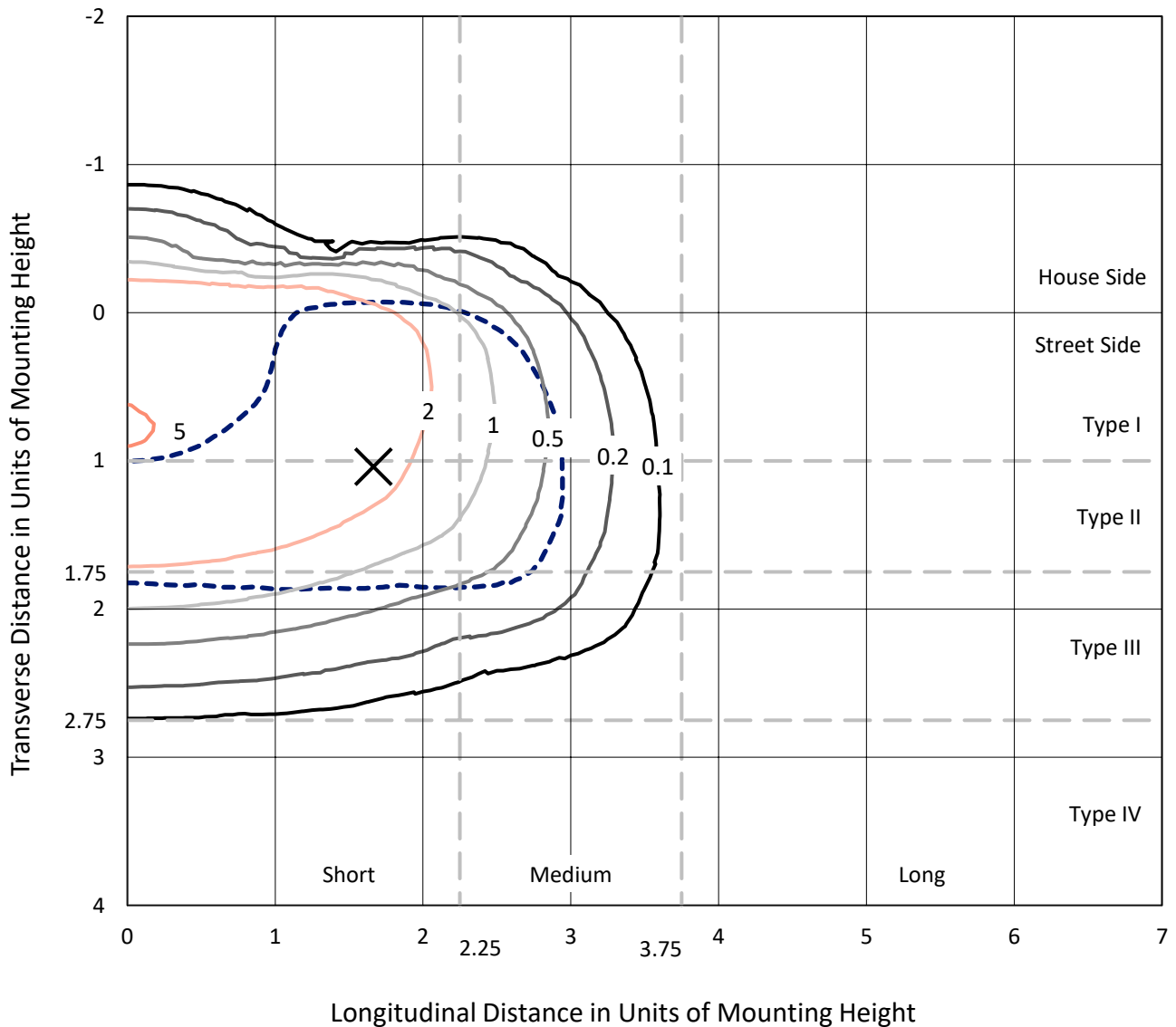
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458969
 CATALOG NUMBER: GALN-SA4D-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

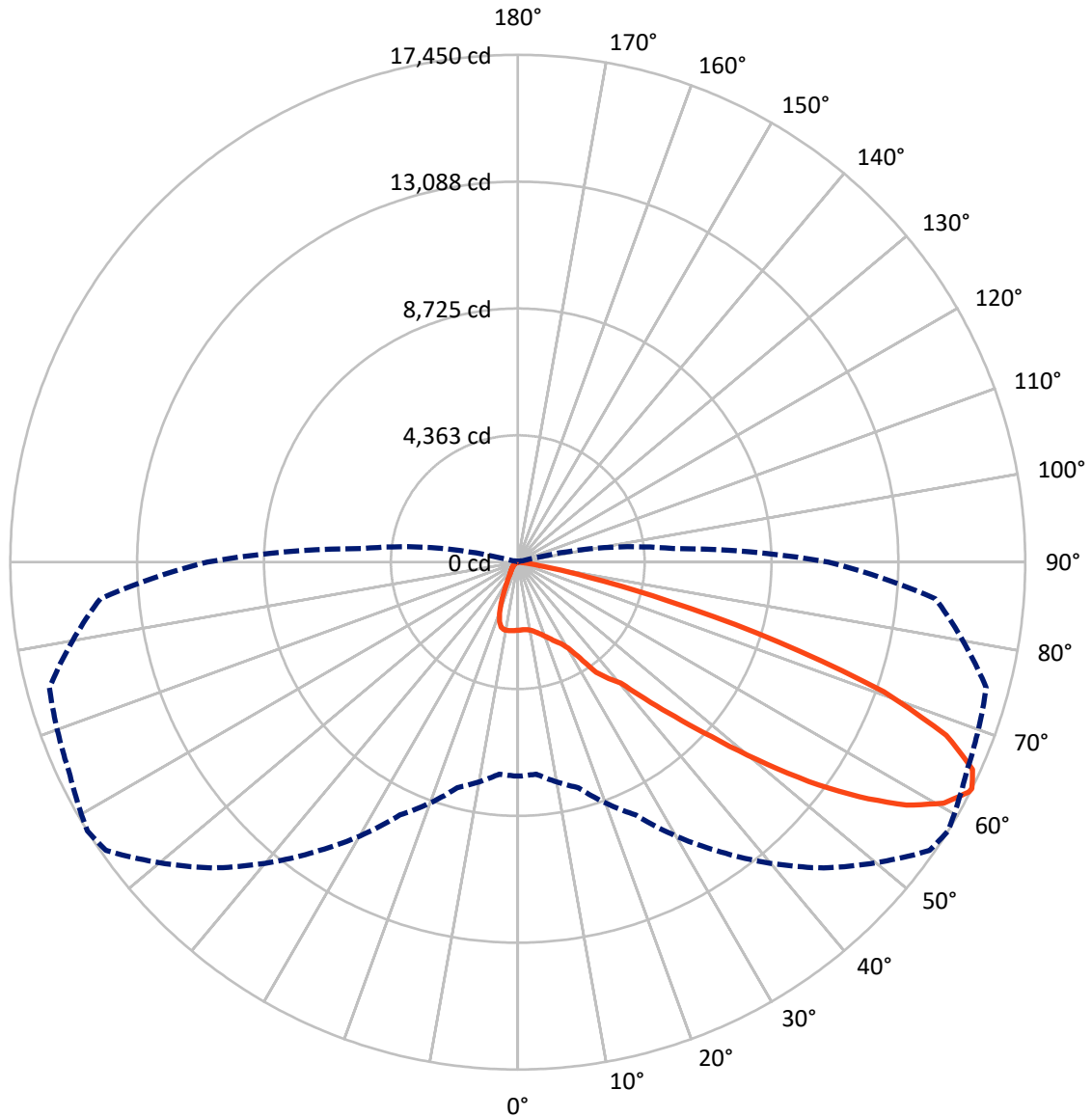
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P458969
CATALOG NUMBER: GALN-SA4D-735-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458969

CATALOG NUMBER: GALN-SA4D-735-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2167.2	0.0	2167.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18762.8	0.0	18762.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	20930.0	0.0	20930.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	1.0
10°-20°	597.4	2.9
20°-30°	1036.9	5.0
30°-40°	1905.4	9.1
40°-50°	3586.9	17.1
50°-60°	6135.1	29.3
60°-70°	5874.4	28.1
70°-80°	1498.0	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°	20930.0	100.0
0°-180°	20930.0	100.0



REPORT NUMBER: P458969

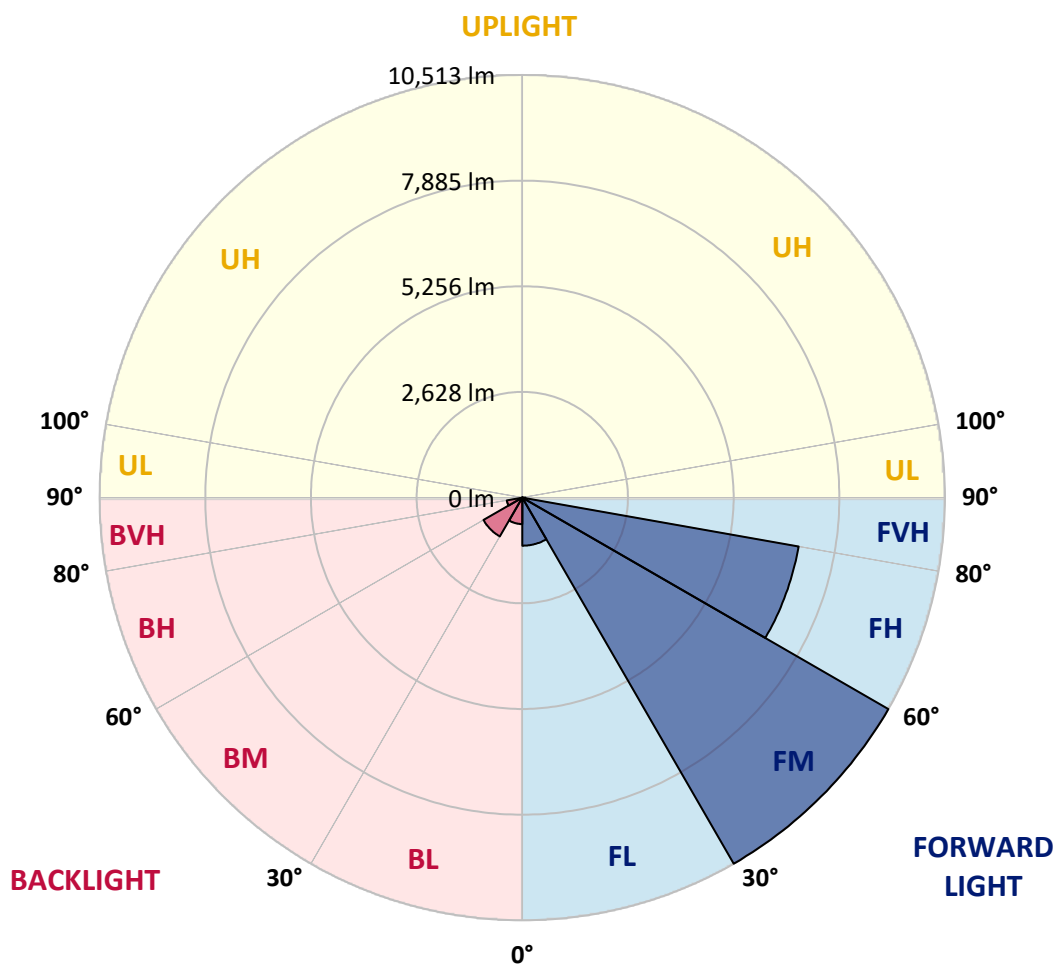
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1196.4	5.7			
FM	(30°-60°)	10512.7	50.2			
FH	(60°-80°)	6980.0	33.3			G3/7500
FVH	(80°-90°)	73.6	0.4			G1/100
BL	(0°-30°)	657.2	3.1	B2/1000		
BM	(30°-60°)	1114.7	5.3	B2/2500		
BH	(60°-80°)	392.3	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





REPORT NUMBER: P458969

CATALOG NUMBER: GALN-SA4D-735-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2343.2	2343.2	2343.2	2343.2	2343.2	2343.2	2343.2	2343.2	2343.2	2343.2	2343.2
2.5°	2284.9	2292.8	2300.6	2303.8	2314.8	2325.9	2333.7	2332.2	2344.8	2351.1	2351.1
5°	2193.5	2193.5	2214.0	2232.9	2264.4	2295.9	2325.9	2332.2	2355.8	2377.9	2385.7
7.5°	2116.3	2121.0	2136.8	2171.4	2214.0	2269.1	2329.0	2343.2	2384.2	2433.0	2453.5
10°	2080.0	2083.2	2103.7	2139.9	2193.5	2269.1	2352.6	2379.4	2442.5	2519.7	2548.0
12.5°	2072.2	2076.9	2097.4	2138.3	2199.8	2291.2	2404.7	2433.0	2524.4	2623.7	2666.2
15°	2086.3	2089.5	2110.0	2154.1	2221.9	2330.6	2474.0	2513.4	2622.1	2737.1	2792.3
17.5°	2136.8	2133.6	2147.8	2184.0	2259.7	2379.4	2557.5	2604.8	2732.4	2890.0	2926.2
20°	2351.1	2330.6	2318.0	2286.5	2316.4	2448.8	2658.4	2727.7	2885.3	3046.0	3071.2
22.5°	2812.8	2767.1	2677.3	2554.3	2459.8	2543.3	2779.7	2860.1	3063.3	3220.9	3220.9
25°	3400.5	3342.2	3252.4	2984.5	2752.9	2699.3	2916.8	3017.6	3257.2	3416.3	3364.3
27.5°	4136.4	4090.7	3915.8	3603.8	3249.3	2971.9	3075.9	3168.9	3428.9	3621.2	3512.4
30°	4735.2	4713.2	4569.8	4290.9	3900.1	3495.1	3372.2	3433.6	3657.4	3879.6	3767.7
32.5°	5241.1	5241.1	5094.5	4834.5	4468.9	4109.7	3874.9	3919.0	4133.3	4390.1	4182.1
35°	5797.3	5778.4	5660.2	5412.8	5003.1	4686.4	4590.3	4650.1	4844.0	5034.6	4522.5
37.5°	6381.9	6375.6	6252.7	6013.2	5679.1	5280.5	5055.1	5070.9	5170.2	5286.8	4921.2
40°	7017.0	7026.4	6865.7	6717.6	6402.4	5994.3	5562.5	5463.3	5556.2	5885.6	5657.1
42.5°	7767.1	7745.0	7675.7	7474.0	7220.3	6976.0	6457.6	6421.3	6503.3	6856.2	6608.8
45°	8638.5	8670.0	8550.2	8438.3	8268.2	8064.9	7631.5	7568.5	7658.3	8206.7	7855.3
47.5°	9511.4	9481.5	9558.7	9538.2	9629.6	9478.4	9095.4	8966.2	9182.1	9702.1	9185.3
50°	10176.4	10209.5	10370.3	10605.0	10997.4	11082.5	10715.3	10671.2	10767.3	11101.4	10375.0
52.5°	10608.2	10718.5	10970.6	11574.2	12281.7	12831.6	12552.7	12529.1	12489.7	12579.5	11512.7
55°	10890.3	11002.1	11331.5	12220.2	13438.3	14331.8	14346.0	14245.1	13985.1	13920.5	12576.4
57.5°	10716.9	10739.0	11208.6	12396.7	14079.7	15401.7	15865.0	15764.2	15283.6	15039.3	13515.5
60°	9632.8	9678.5	10332.4	11728.6	13800.7	15751.6	16871.9	16826.2	16299.9	16024.2	14246.7
62.5°	7711.9	7844.3	8517.1	10074.0	12503.9	15162.2	17280.1	17409.3	16999.6	16619.8	14476.8
63°	7358.9	7316.4	8027.1	9591.8	12160.3	14870.7	17286.4	17450.3	17031.1	16676.5	14413.7
65°	5447.5	5575.1	6036.8	7563.8	10119.7	13513.9	16897.2	17187.1	16914.5	16426.0	13715.6
67.5°	3058.6	3052.3	3562.9	4949.5	7083.2	10600.3	15278.8	15891.8	15835.1	14739.9	11369.3
70°	1497.0	1520.6	1730.2	2565.4	4108.1	7313.2	12696.1	13357.9	13378.4	11577.3	7861.6
72.5°	677.6	688.6	838.3	1249.6	2111.6	3893.8	8748.8	9380.7	9264.0	7377.8	4341.3
75°	357.7	381.3	461.7	628.7	1018.0	1605.7	4758.9	5370.3	5126.0	3370.6	1597.8
77.5°	264.7	272.6	313.6	400.2	545.2	625.6	2053.2	2442.5	2288.0	1219.7	529.5
80°	193.8	200.1	233.2	283.6	343.5	318.3	773.7	887.2	795.8	414.4	162.3
82.5°	118.2	119.8	170.2	211.2	215.9	178.1	255.3	274.2	286.8	233.2	88.2
85°	42.5	53.6	115.0	152.9	127.6	89.8	107.2	118.2	129.2	148.1	52.0
87.5°	4.7	6.3	55.2	74.1	36.2	33.1	39.4	44.1	47.3	55.2	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°	2343.2	2343.2	2343.2	2343.2	2343.2	2343.2	2343.2	2343.2	2343.2	2343.2	2343.2
2.5°	2357.4	2363.7	2359.0	2351.1	2349.5	2344.8	2335.3	2335.3	2335.3	2338.5	2335.3
5°	2392.0	2396.8	2385.7	2370.0	2352.6	2330.6	2307.0	2292.8	2291.2	2288.0	2280.2
7.5°	2458.2	2464.5	2439.3	2401.5	2354.2	2300.6	2250.2	2202.9	2180.9	2163.6	2163.6
10°	2554.3	2560.7	2510.2	2442.5	2347.9	2239.2	2119.4	2010.7	1925.6	1886.2	1876.8
12.5°	2669.4	2672.5	2589.0	2470.8	2314.8	2105.3	1850.0	1612.0	1446.6	1370.9	1363.1
15°	2795.4	2773.4	2663.1	2481.9	2220.3	1829.5	1388.3	1096.7	925.0	874.6	893.5
17.5°	2923.1	2882.1	2719.8	2464.5	2007.6	1388.3	932.9	748.5	694.9	680.7	680.7
20°	3042.8	2986.1	2760.8	2388.9	1638.8	956.5	691.8	647.6	638.2	628.7	630.3
22.5°	3162.6	3075.9	2797.0	2220.3	1221.2	683.9	619.3	605.1	592.5	579.9	578.3
25°	3279.2	3159.5	2811.2	1908.3	832.0	587.8	565.7	546.8	521.6	507.4	504.3
27.5°	3400.5	3260.3	2801.7	1514.3	606.7	526.3	504.3	477.5	447.5	422.3	422.3
30°	3633.8	3452.5	2768.7	1088.9	510.6	463.3	434.9	392.4	359.3	334.1	332.5
32.5°	3952.1	3703.1	2655.2	765.8	453.8	408.1	365.6	318.3	283.6	264.7	264.7
35°	4235.7	3955.2	2442.5	564.1	408.1	354.6	302.6	256.9	230.1	217.5	212.7
37.5°	4667.5	4324.0	2149.4	458.6	364.0	307.3	253.7	211.2	189.1	179.6	179.6
40°	5315.1	4774.6	1790.1	401.8	321.5	261.6	211.2	178.1	160.7	149.7	149.7
42.5°	6118.8	5326.2	1426.1	360.9	282.1	225.3	176.5	151.3	135.5	127.6	126.1
45°	7130.4	5907.6	1098.3	323.0	250.6	192.2	149.7	127.6	111.9	107.2	108.7
47.5°	8186.2	6419.8	850.9	289.9	217.5	162.3	127.6	110.3	99.3	93.0	93.0
50°	9087.6	6772.7	646.1	252.1	192.2	137.1	111.9	99.3	89.8	86.7	85.1
52.5°	9840.8	6875.2	494.8	219.0	168.6	118.2	99.3	89.8	81.9	77.2	77.2
55°	10482.1	6785.3	387.6	184.4	141.8	102.4	88.2	80.4	70.9	66.2	64.6
57.5°	10857.2	6497.0	296.2	152.9	115.0	85.1	77.2	67.8	56.7	48.8	48.8
60°	11046.3	6077.8	226.9	126.1	88.2	67.8	63.0	50.4	39.4	33.1	31.5
62.5°	10819.3	5521.6	171.8	99.3	66.2	50.4	42.5	36.2	25.2	18.9	18.9
63°	10679.1	5360.8	165.5	94.5	61.5	47.3	39.4	33.1	22.1	17.3	15.8
65°	9735.2	4659.6	135.5	75.6	48.8	33.1	26.8	23.6	15.8	7.9	6.3
67.5°	7730.8	3564.4	107.2	56.7	34.7	23.6	15.8	14.2	4.7	0.0	0.0
70°	5226.9	2302.2	83.5	41.0	23.6	14.2	7.9	6.3	1.6	0.0	0.0
72.5°	2726.1	1180.3	64.6	29.9	14.2	9.5	4.7	1.6	0.0	0.0	0.0
75°	964.4	401.8	47.3	18.9	9.5	4.7	1.6	0.0	0.0	0.0	0.0
77.5°	291.5	149.7	29.9	14.2	6.3	3.2	0.0	0.0	0.0	0.0	0.0
80°	102.4	55.2	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)