

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: P459118

Luminaire Tested: **GALN-SA6A-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18191 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

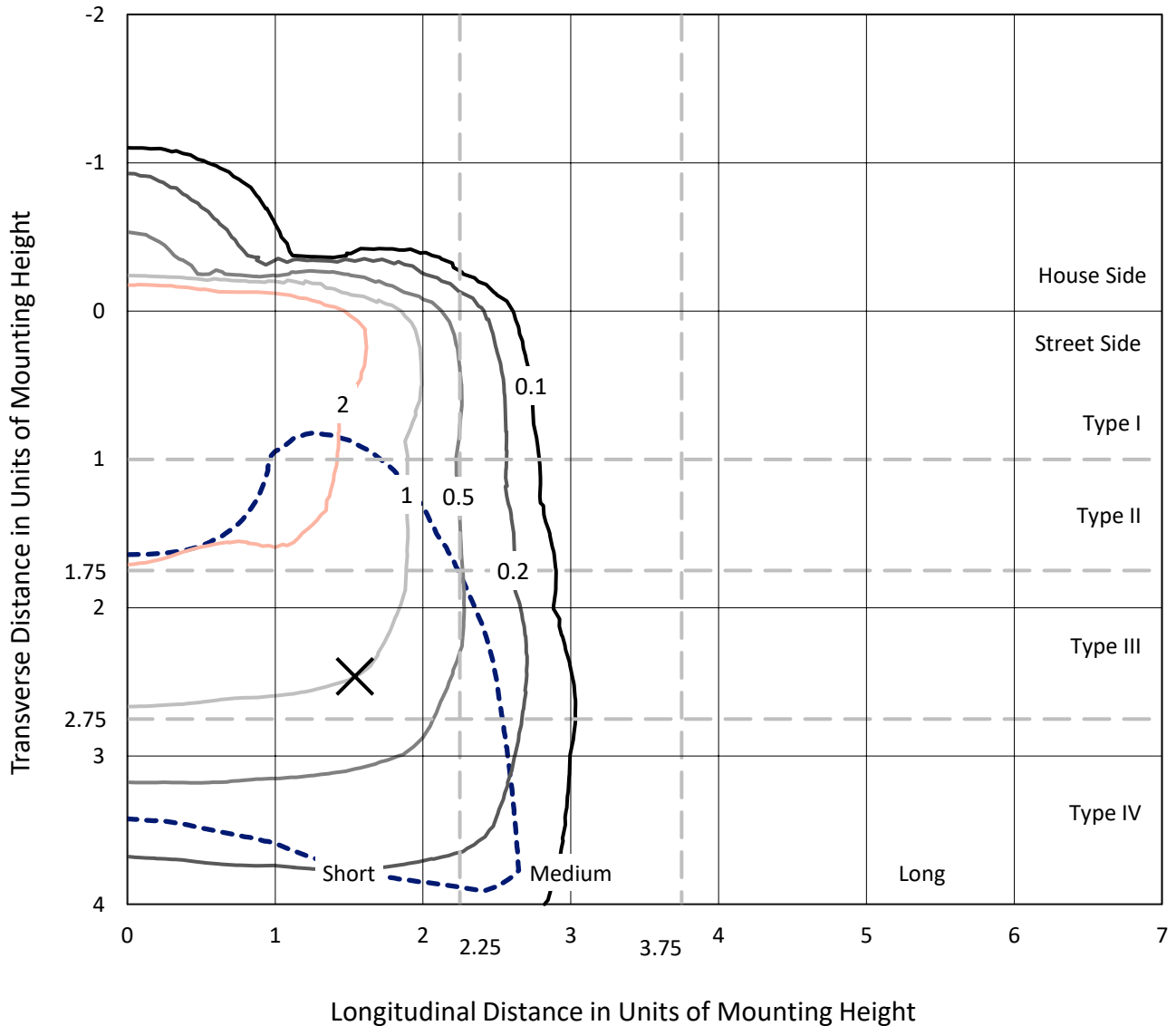
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

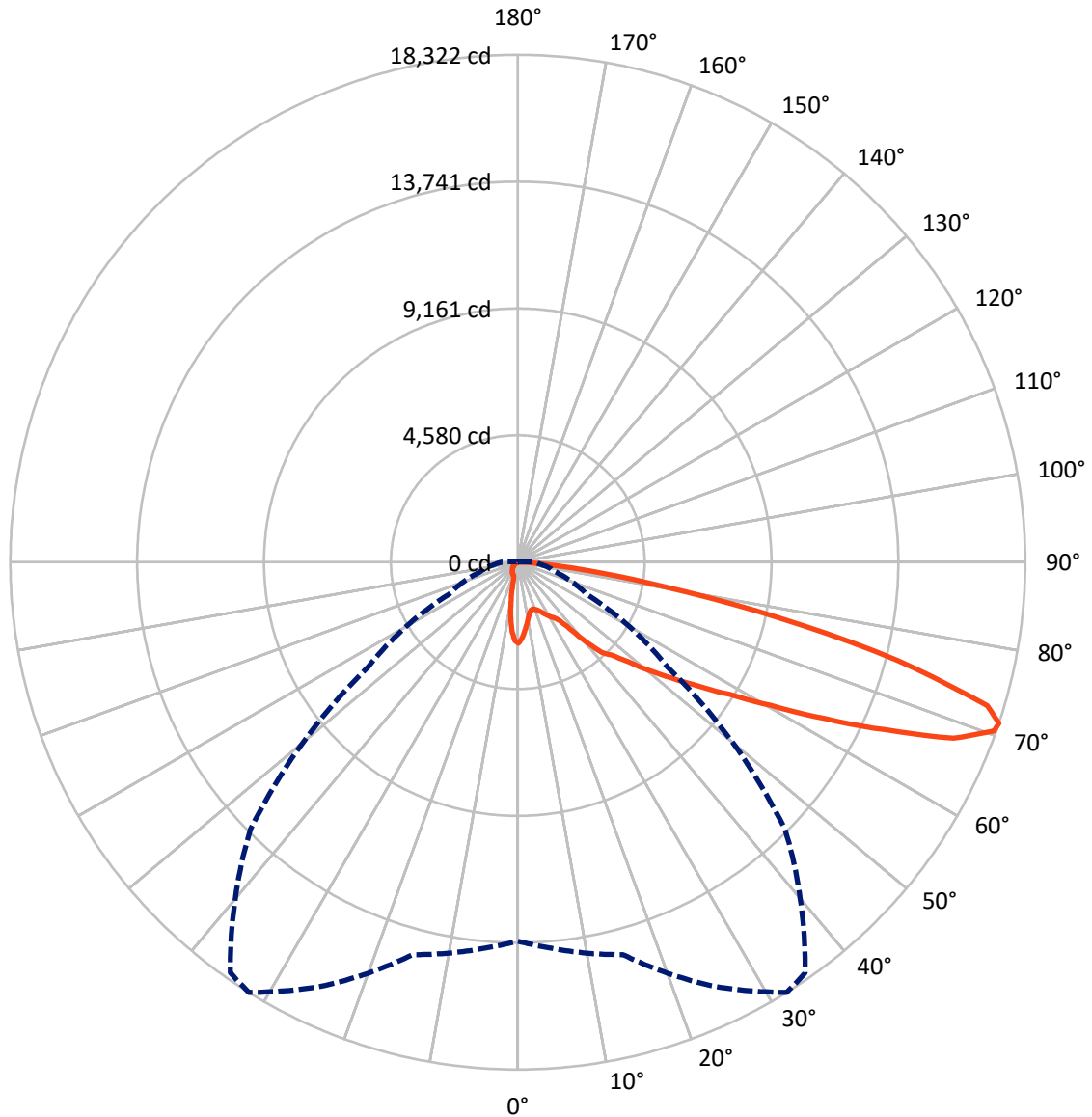
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1523.7	0.0	1523.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	16667.3	0.0	16667.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	18191.0	0.0	18191.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	1.3
10°-20°	516.3	2.8
20°-30°	803.1	4.4
30°-40°	1338.0	7.4
40°-50°	2489.0	13.7
50°-60°	3996.1	22.0
60°-70°	5375.0	29.5
70°-80°	3189.1	17.5
80°-90°	246.5	1.4
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°	18191.0	100.0
0°-180°	18191.0	100.0

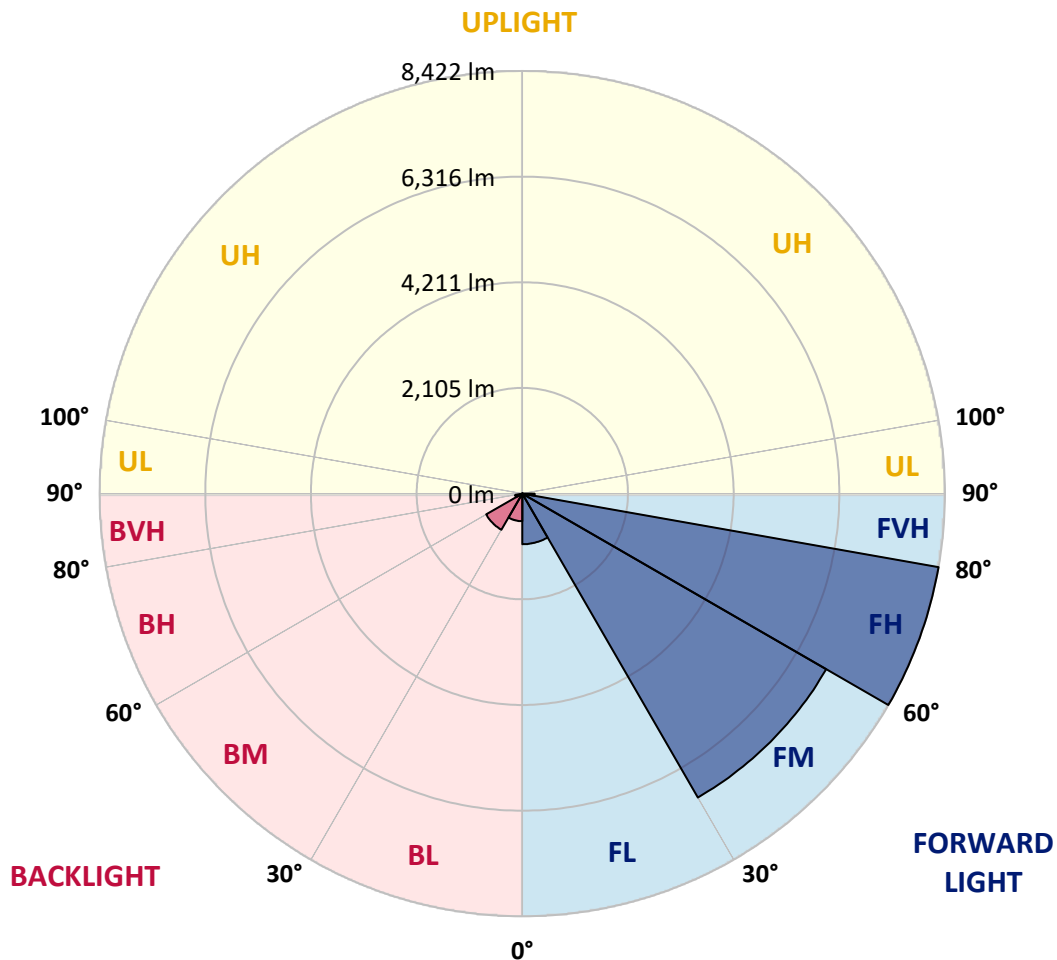


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1008.3	5.5			
FM	(30°-60°)	6992.0	38.4			
FH	(60°-80°)	8421.6	46.3			G4/12000
FVH	(80°-90°)	245.5	1.3			G3/500
BL	(0°-30°)	549.0	3.0	B2/1000		
BM	(30°-60°)	831.2	4.6	B1/1000		
BH	(60°-80°)	142.5	0.8	B1/500		G1/500
BVH	(80°-90°)	1.0	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4
2.5°	2713.1	2741.1	2736.9	2746.7	2770.4	2780.2	2806.7	2836.0	2876.5	2904.5	2922.6
5°	2429.7	2450.6	2453.4	2502.3	2526.0	2552.6	2630.8	2715.9	2810.9	2886.3	2936.6
7.5°	2126.7	2137.8	2160.2	2224.4	2284.5	2311.0	2429.7	2577.7	2727.1	2868.1	2958.9
10°	1876.7	1889.3	1929.8	1998.2	2054.1	2089.0	2253.7	2439.5	2648.9	2858.4	2991.0
12.5°	1734.3	1741.3	1756.6	1818.1	1889.3	1927.0	2104.3	2316.6	2586.1	2862.6	3045.5
15°	1724.5	1721.7	1703.6	1728.7	1792.9	1832.0	2005.2	2232.8	2530.2	2876.5	3109.7
17.5°	1776.2	1769.2	1725.9	1725.9	1779.0	1811.1	1963.3	2188.1	2502.3	2908.6	3200.5
20°	1855.8	1844.6	1773.4	1767.8	1819.5	1853.0	1988.4	2190.9	2507.9	2968.7	3322.0
22.5°	1956.3	1943.7	1836.2	1839.0	1894.9	1928.4	2061.0	2241.2	2542.8	3042.7	3451.8
25°	2087.6	2073.6	1946.5	1941.0	1999.6	2028.9	2168.6	2330.5	2591.7	3134.9	3622.2
27.5°	2262.1	2232.8	2080.6	2072.2	2135.1	2172.8	2298.4	2450.6	2678.2	3261.9	3851.2
30°	2405.9	2373.8	2228.6	2206.3	2273.3	2302.6	2432.5	2612.6	2848.6	3483.9	4168.2
32.5°	2594.5	2547.0	2376.6	2318.0	2389.2	2426.9	2626.6	2914.2	3101.3	3718.5	4545.2
35°	3019.0	2989.6	2781.6	2576.3	2572.1	2619.6	2912.8	3218.6	3361.1	4084.4	5059.1
37.5°	3626.4	3605.4	3384.8	3109.7	3030.1	3007.8	3260.5	3553.8	3775.8	4587.1	5656.7
40°	4331.5	4282.7	4080.2	3847.0	3743.7	3678.0	3671.1	4052.3	4317.6	5269.9	6279.5
42.5°	4837.0	4747.7	4501.9	4485.1	4462.8	4394.4	4196.1	4781.2	5017.2	6004.4	6945.5
45°	5367.6	5232.2	4866.4	4803.5	4795.1	4790.9	4989.2	5644.1	5779.6	6800.3	7629.8
47.5°	5779.6	5672.1	5371.8	5343.9	5378.8	5473.8	6037.9	6560.2	6532.2	7509.7	8203.7
50°	6328.4	6247.4	5913.6	5966.7	6146.8	6301.8	7220.6	7558.6	7150.8	8068.2	8621.2
52.5°	6976.3	6826.9	6516.9	6660.7	6937.2	7195.5	8476.0	8432.7	7585.1	8488.5	8932.6
55°	7537.6	7431.5	7325.4	7474.8	7888.1	8210.7	9609.8	9087.6	7900.7	8826.5	9069.4
57.5°	8487.1	8462.0	8353.1	8505.3	9006.6	9341.7	10625.0	9595.9	8103.1	9002.4	8908.8
60°	9891.9	9851.4	9648.9	9843.0	10496.5	11023.0	11560.6	10052.5	8149.2	8934.0	8446.6
62.5°	11581.5	11443.3	11270.1	11556.4	12452.8	12684.6	12441.7	10323.4	7977.5	8389.4	7332.3
65°	13159.4	13017.0	13021.2	13624.4	14600.5	14758.2	13469.4	10282.9	7474.8	7025.1	5408.1
67.5°	14367.3	14343.5	14513.9	15691.0	16967.3	16858.4	14388.2	9676.9	5984.8	4553.6	2873.7
70°	14428.7	14474.8	14963.5	16950.5	18246.4	18073.2	14310.0	7865.8	3731.1	2094.6	1132.5
71°	13685.8	13995.8	14671.7	16911.4	18321.8	18097.0	13650.9	6588.1	2736.9	1460.6	816.9
72.5°	11662.5	11825.9	13286.5	15915.8	17725.5	17245.2	11979.5	4617.8	1752.4	893.7	469.2
75°	6423.3	6825.5	8897.7	12486.3	14177.4	13755.6	7807.1	2193.7	874.1	488.7	194.1
77.5°	3058.1	2979.9	4341.3	7425.9	9612.6	9590.3	3933.6	974.7	509.7	330.9	97.7
80°	874.1	983.0	1661.7	3530.0	5336.9	5395.6	1510.9	470.6	353.3	258.3	50.3
82.5°	263.9	269.5	610.2	1561.1	2654.5	2502.3	566.9	240.2	254.1	205.3	29.3
85°	46.1	57.3	180.1	550.2	1012.4	768.0	142.4	114.5	167.6	135.4	16.8
87.5°	2.8	4.2	60.0	62.8	89.4	51.7	25.1	16.8	36.3	36.3	9.8
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°	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4
2.5°	2935.2	2943.5	2938.0	2925.4	2904.5	2879.3	2845.8	2817.9	2794.1	2781.6	2796.9
5°	2953.3	2964.5	2936.6	2873.7	2778.8	2675.4	2558.2	2467.4	2396.2	2373.8	2365.5
7.5°	2981.3	2988.2	2912.8	2773.2	2572.1	2327.8	2114.1	1934.0	1794.3	1752.4	1691.0
10°	3017.6	3013.4	2870.9	2611.2	2257.9	1890.7	1559.7	1314.0	1128.3	1061.2	1055.7
12.5°	3073.4	3051.1	2817.9	2390.6	1883.7	1403.4	994.2	777.8	660.5	621.4	613.0
15°	3143.2	3090.2	2734.1	2132.3	1442.5	906.2	613.0	547.4	532.0	529.2	526.4
17.5°	3225.6	3141.8	2623.8	1815.3	1013.8	587.9	512.5	511.1	512.5	509.7	508.3
20°	3337.3	3196.3	2492.5	1439.7	670.3	495.7	488.7	488.7	490.1	488.7	488.7
22.5°	3456.0	3260.5	2330.5	1098.9	505.5	470.6	469.2	472.0	474.8	473.4	473.4
25°	3602.6	3344.3	2116.9	752.6	452.4	449.6	451.0	456.6	462.2	463.6	462.2
27.5°	3814.9	3447.6	1887.9	518.1	414.7	417.5	431.5	445.4	453.8	455.2	455.2
30°	4053.7	3562.1	1589.1	420.3	384.0	384.0	400.8	427.3	445.4	448.2	449.6
32.5°	4360.9	3694.8	1258.1	378.4	354.7	351.9	367.2	399.4	432.9	442.6	442.6
35°	4740.7	3851.2	935.6	351.9	333.7	326.8	335.1	361.7	404.9	432.9	435.7
37.5°	5186.1	3999.2	684.2	328.1	314.2	304.4	310.0	330.9	365.8	407.7	418.9
40°	5598.1	4130.5	511.1	308.6	294.6	287.7	291.8	301.6	330.9	370.0	377.0
42.5°	6047.7	4232.4	406.3	287.7	275.1	272.3	272.3	276.5	296.0	318.4	319.8
45°	6495.9	4268.7	340.7	262.5	254.1	256.9	255.5	252.7	261.1	258.3	258.3
47.5°	6815.7	4225.4	282.1	238.8	238.8	243.0	236.0	226.2	222.0	205.3	206.7
50°	7034.9	4067.6	231.8	210.9	222.0	227.6	213.6	198.3	182.9	164.8	160.6
52.5°	7125.7	3787.0	189.9	174.5	196.9	203.9	187.1	169.0	145.2	129.9	125.7
55°	7067.0	3440.7	157.8	142.4	166.2	174.5	157.8	136.8	110.3	93.6	90.8
57.5°	6808.7	3027.3	134.1	113.1	132.7	138.2	127.1	104.7	78.2	61.4	61.4
60°	6361.9	2600.0	108.9	89.4	99.1	107.5	96.3	75.4	53.1	37.7	34.9
62.5°	5455.6	2111.3	88.0	69.8	69.8	76.8	67.0	54.5	33.5	19.5	18.2
65°	3939.2	1448.0	69.8	51.7	50.3	50.3	41.9	36.3	19.5	8.4	5.6
67.5°	2140.6	816.9	55.9	39.1	34.9	33.5	26.5	20.9	8.4	1.4	0.0
70°	842.0	314.2	43.3	26.5	22.3	20.9	14.0	9.8	5.6	0.0	0.0
71°	571.1	216.4	37.7	22.3	18.2	15.4	11.2	8.4	4.2	0.0	0.0
72.5°	326.8	134.1	29.3	16.8	14.0	11.2	8.4	5.6	4.2	0.0	0.0
75°	142.4	68.4	18.2	12.6	9.8	7.0	5.6	4.2	1.4	0.0	0.0
77.5°	72.6	37.7	12.6	9.8	5.6	4.2	2.8	1.4	0.0	0.0	0.0
80°	40.5	19.5	8.4	5.6	4.2	2.8	1.4	1.4	0.0	0.0	0.0
82.5°	22.3	11.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	7.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	2.8	0.0	0.0	0.0	0.0	1.4	1.4	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)