

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: P453546

Luminaire Tested: **GALN-SA4C-750-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453546
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-SA4C-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA 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: 20419 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

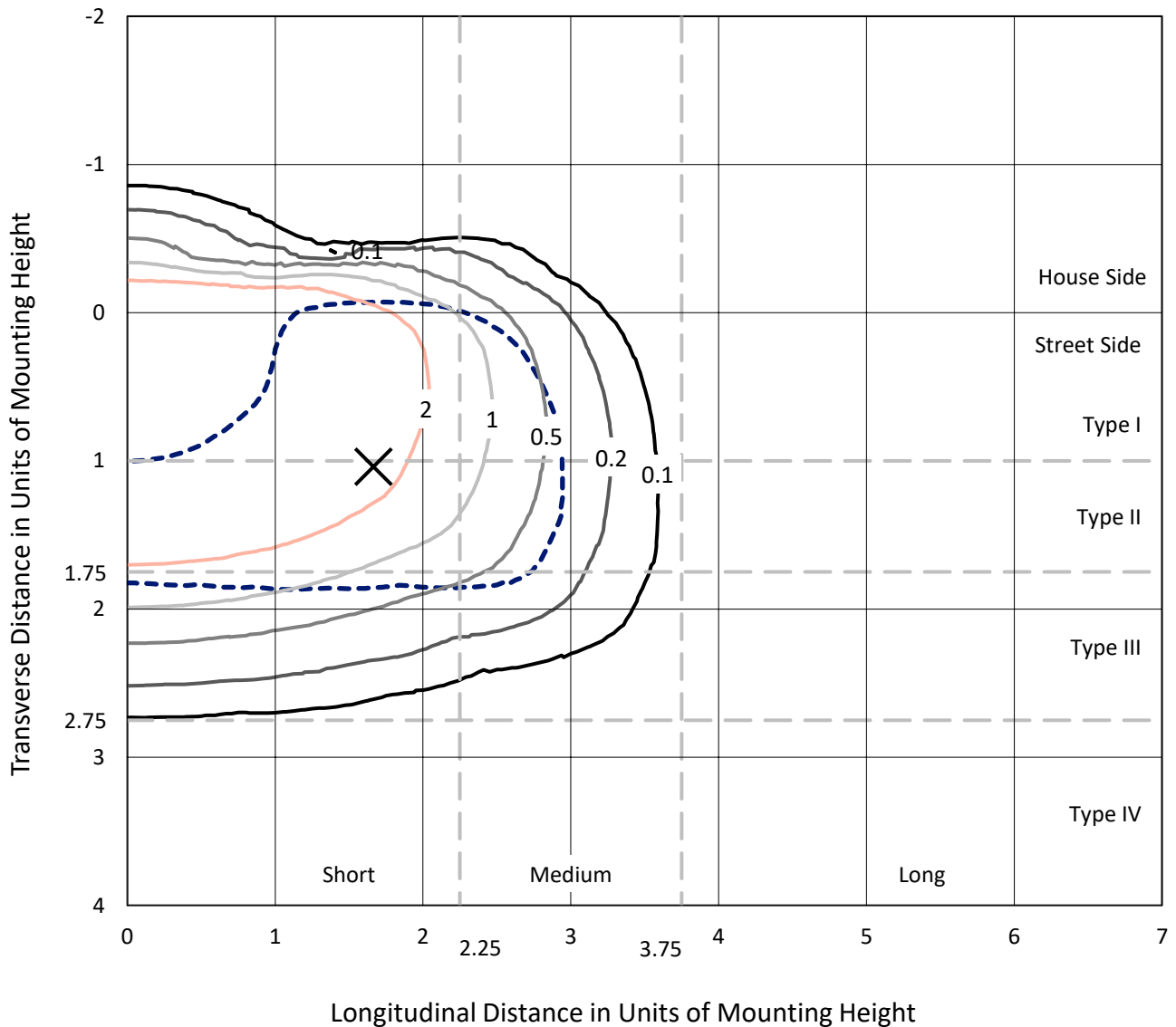
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

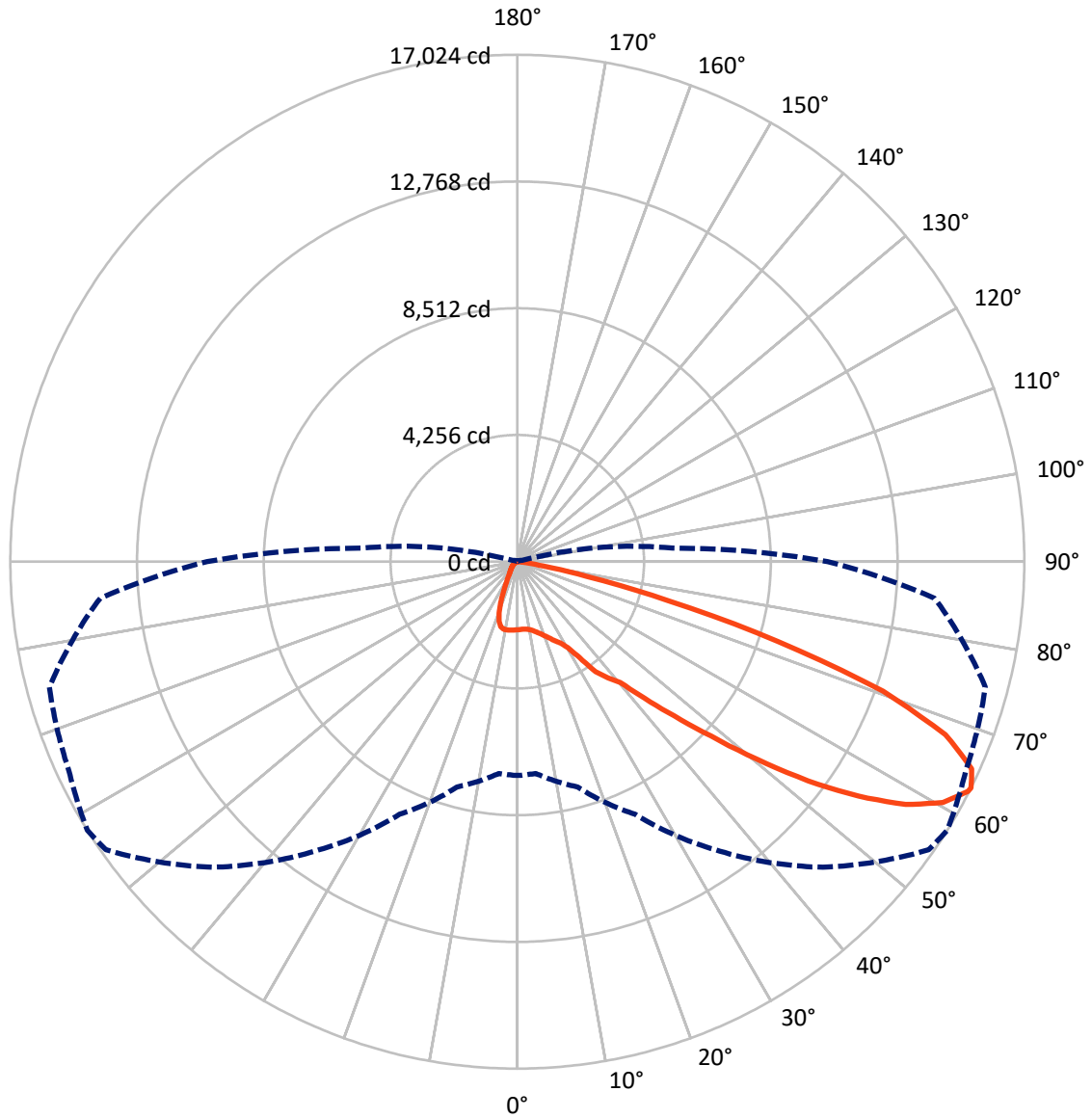
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2114.2	0.0	2114.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18304.7	0.0	18304.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	20419.0	0.0	20419.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	1.0
10°-20°	582.9	2.9
20°-30°	1011.6	5.0
30°-40°	1858.9	9.1
40°-50°	3499.3	17.1
50°-60°	5985.3	29.3
60°-70°	5730.9	28.1
70°-80°	1461.4	7.2
80°-90°	74.7	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°	20419.0	100.0
0°-180°	20419.0	100.0



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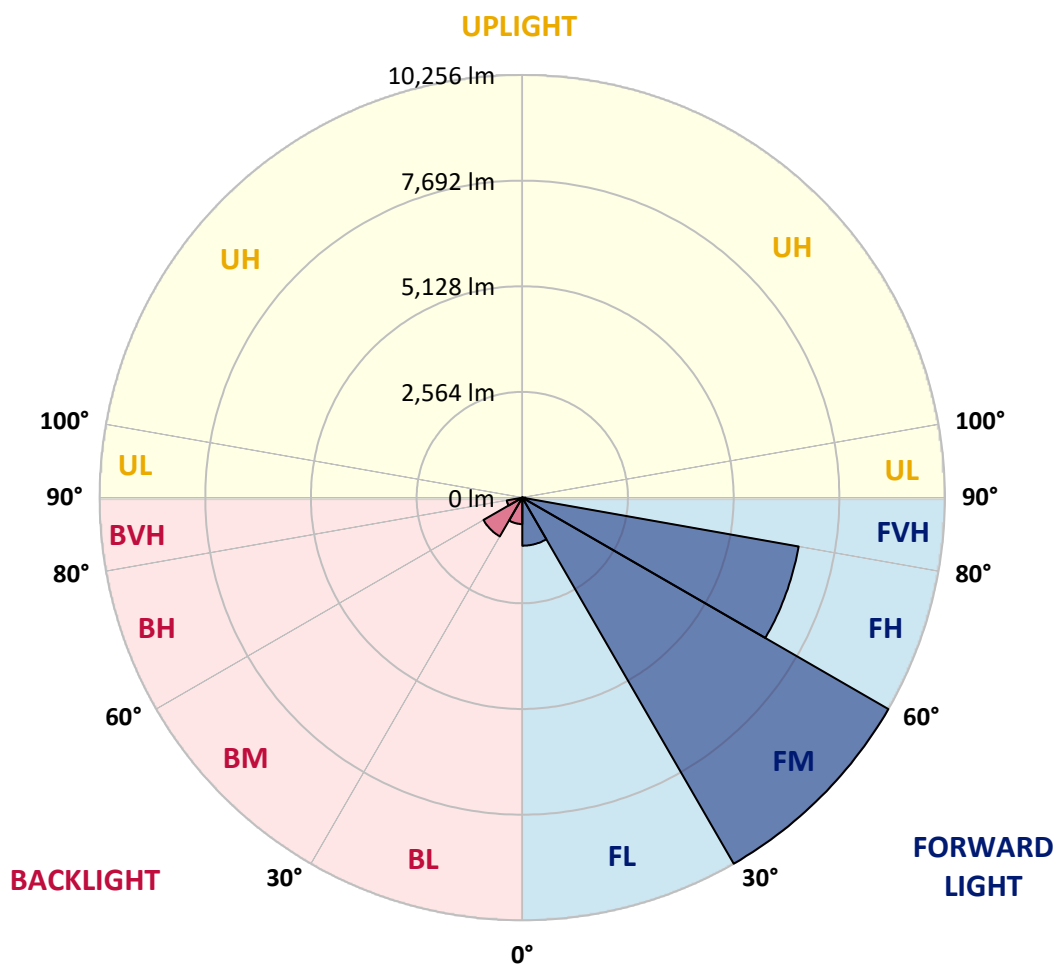
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1167.2	5.7			
FM	(30°-60°)	10256.1	50.2			
FH	(60°-80°)	6809.6	33.3			G3/7500
FVH	(80°-90°)	71.8	0.4			G1/100
BL	(0°-30°)	641.2	3.1	B2/1000		
BM	(30°-60°)	1087.5	5.3	B2/2500		
BH	(60°-80°)	382.7	1.9	B1/500		G1/500
BVH	(80°-90°)	2.9	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°	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0
2.5°	2229.1	2236.8	2244.5	2247.6	2258.3	2269.1	2276.8	2275.2	2287.5	2293.7	2293.7
5°	2139.9	2139.9	2159.9	2178.4	2209.1	2239.9	2269.1	2275.2	2298.3	2319.8	2327.5
7.5°	2064.6	2069.2	2084.6	2118.4	2159.9	2213.7	2272.2	2286.0	2326.0	2373.6	2393.6
10°	2029.3	2032.3	2052.3	2087.7	2139.9	2213.7	2295.2	2321.3	2382.8	2458.2	2485.8
12.5°	2021.6	2026.2	2046.2	2086.1	2146.1	2235.3	2345.9	2373.6	2462.8	2559.6	2601.1
15°	2035.4	2038.5	2058.5	2101.5	2167.6	2273.7	2413.6	2452.0	2558.1	2670.3	2724.1
17.5°	2084.6	2081.5	2095.4	2130.7	2204.5	2321.3	2495.1	2541.2	2665.7	2819.4	2854.8
20°	2293.7	2273.7	2261.4	2230.6	2259.9	2389.0	2593.4	2661.1	2814.8	2971.6	2996.2
22.5°	2744.1	2699.5	2611.9	2492.0	2399.7	2481.2	2711.8	2790.2	2988.5	3142.3	3142.3
25°	3317.5	3260.6	3173.0	2911.7	2685.7	2633.4	2845.6	2944.0	3177.6	3332.9	3282.2
27.5°	4035.4	3990.9	3820.2	3515.8	3169.9	2899.4	3000.8	3091.5	3345.2	3532.7	3426.7
30°	4619.6	4598.1	4458.2	4186.1	3804.9	3409.8	3289.9	3349.8	3568.1	3784.9	3675.7
32.5°	5113.1	5113.1	4970.1	4716.5	4359.8	4009.3	3780.3	3823.3	4032.4	4283.0	4080.0
35°	5655.8	5637.3	5522.0	5280.7	4881.0	4572.0	4478.2	4536.6	4725.7	4911.7	4412.1
37.5°	6226.1	6220.0	6100.1	5866.4	5540.5	5151.5	4931.7	4947.1	5043.9	5157.7	4801.0
40°	6845.7	6854.9	6698.1	6553.6	6246.1	5847.9	5426.7	5329.9	5420.6	5741.9	5519.0
42.5°	7577.4	7555.9	7488.3	7291.5	7044.0	6805.7	6299.9	6264.6	6344.5	6688.9	6447.5
45°	8427.6	8458.3	8341.5	8232.3	8066.3	7868.0	7445.2	7383.7	7471.3	8006.3	7663.5
47.5°	9279.2	9250.0	9325.3	9305.4	9394.5	9246.9	8873.4	8747.3	8957.9	9465.2	8961.0
50°	9928.0	9960.3	10117.1	10346.1	10728.9	10811.9	10453.7	10410.7	10504.5	10830.4	10121.7
52.5°	10349.2	10456.8	10702.8	11291.6	11981.8	12518.3	12246.2	12223.2	12184.8	12272.4	11231.6
55°	10624.4	10733.5	11054.8	11921.9	13110.2	13981.9	13995.7	13897.3	13643.7	13580.6	12269.3
57.5°	10455.3	10476.8	10934.9	12094.0	13735.9	15025.7	15477.7	15379.3	14910.4	14672.1	13185.5
60°	9397.6	9442.2	10080.2	11442.2	13463.8	15367.0	16460.0	16415.4	15902.0	15632.9	13898.9
62.5°	7523.6	7652.7	8309.2	9828.0	12198.6	14792.0	16858.2	16984.2	16584.5	16214.1	14123.3
63°	7179.3	7137.7	7831.1	9357.6	11863.5	14507.6	16864.3	17024.2	16615.3	16269.4	14061.8
65°	5314.5	5439.0	5889.5	7379.1	9872.6	13184.0	16484.6	16767.5	16501.5	16025.0	13380.8
67.5°	2983.9	2977.8	3475.9	4828.7	6910.2	10341.5	14905.8	15503.8	15448.5	14380.0	11091.7
70°	1460.4	1483.5	1688.0	2502.7	4007.8	7134.7	12386.1	13031.8	13051.8	11294.6	7669.7
72.5°	661.0	671.8	817.9	1219.1	2060.0	3798.7	8535.2	9151.6	9037.9	7197.7	4235.3
75°	349.0	372.0	450.4	613.4	993.1	1566.5	4642.7	5239.2	5000.9	3288.3	1558.8
77.5°	258.3	266.0	305.9	390.5	531.9	610.3	2003.1	2382.8	2232.2	1189.9	516.5
80°	189.1	195.2	227.5	276.7	335.1	310.5	754.8	865.5	776.3	404.3	158.3
82.5°	115.3	116.8	166.0	206.0	210.6	173.7	249.0	267.5	279.8	227.5	86.1
85°	41.5	52.3	112.2	149.1	124.5	87.6	104.5	115.3	126.1	144.5	50.7
87.5°	4.6	6.1	53.8	72.3	35.4	32.3	38.4	43.0	46.1	53.8	24.6
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°	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0	2286.0
2.5°	2299.8	2306.0	2301.4	2293.7	2292.1	2287.5	2278.3	2278.3	2278.3	2281.4	2278.3
5°	2333.6	2338.3	2327.5	2312.1	2295.2	2273.7	2250.6	2236.8	2235.3	2232.2	2224.5
7.5°	2398.2	2404.4	2379.8	2342.9	2296.7	2244.5	2195.3	2149.2	2127.6	2110.7	2110.7
10°	2492.0	2498.1	2448.9	2382.8	2290.6	2184.5	2067.7	1961.6	1878.6	1840.2	1830.9
12.5°	2604.2	2607.3	2525.8	2410.5	2258.3	2053.9	1804.8	1572.7	1411.3	1337.5	1329.8
15°	2727.2	2705.7	2598.1	2421.3	2166.1	1784.8	1354.4	1070.0	902.4	853.2	871.7
17.5°	2851.7	2811.7	2653.4	2404.4	1958.5	1354.4	910.1	730.2	678.0	664.1	664.1
20°	2968.6	2913.2	2693.4	2330.6	1598.8	933.1	674.9	631.8	622.6	613.4	614.9
22.5°	3085.4	3000.8	2728.7	2166.1	1191.4	667.2	604.2	590.3	578.0	565.7	564.2
25°	3199.2	3082.3	2742.6	1861.7	811.7	573.4	551.9	533.4	508.9	495.0	491.9
27.5°	3317.5	3180.7	2733.3	1477.4	591.9	513.5	491.9	465.8	436.6	412.0	412.0
30°	3545.0	3368.3	2701.1	1062.3	498.1	452.0	424.3	382.8	350.5	325.9	324.4
32.5°	3855.6	3612.7	2590.4	747.1	442.7	398.2	356.7	310.5	276.7	258.3	258.3
35°	4132.3	3858.7	2382.8	550.4	398.2	345.9	295.2	250.6	224.4	212.1	207.5
37.5°	4553.5	4218.4	2096.9	447.4	355.1	299.8	247.5	206.0	184.5	175.3	175.3
40°	5185.4	4658.1	1746.4	392.0	313.6	255.2	206.0	173.7	156.8	146.0	146.0
42.5°	5969.4	5196.1	1391.3	352.0	275.2	219.8	172.2	147.6	132.2	124.5	123.0
45°	6956.3	5763.4	1071.5	315.1	244.4	187.6	146.0	124.5	109.1	104.5	106.1
47.5°	7986.3	6263.0	830.1	282.9	212.1	158.3	124.5	107.6	96.9	90.7	90.7
50°	8865.7	6607.4	630.3	246.0	187.6	133.7	109.1	96.9	87.6	84.6	83.0
52.5°	9600.5	6707.3	482.7	213.7	164.5	115.3	96.9	87.6	79.9	75.3	75.3
55°	10226.2	6619.7	378.2	179.9	138.4	99.9	86.1	78.4	69.2	64.6	63.0
57.5°	10592.1	6338.3	289.0	149.1	112.2	83.0	75.3	66.1	55.3	47.7	47.7
60°	10776.6	5929.4	221.4	123.0	86.1	66.1	61.5	49.2	38.4	32.3	30.7
62.5°	10555.2	5386.7	167.6	96.9	64.6	49.2	41.5	35.4	24.6	18.4	18.4
63°	10418.4	5229.9	161.4	92.2	60.0	46.1	38.4	32.3	21.5	16.9	15.4
65°	9497.5	4545.8	132.2	73.8	47.7	32.3	26.1	23.1	15.4	7.7	6.1
67.5°	7542.1	3477.4	104.5	55.3	33.8	23.1	15.4	13.8	4.6	0.0	0.0
70°	5099.3	2246.0	81.5	40.0	23.1	13.8	7.7	6.1	1.5	0.0	0.0
72.5°	2659.6	1151.4	63.0	29.2	13.8	9.2	4.6	1.5	0.0	0.0	0.0
75°	940.8	392.0	46.1	18.4	9.2	4.6	1.5	0.0	0.0	0.0	0.0
77.5°	284.4	146.0	29.2	13.8	6.1	3.1	0.0	0.0	0.0	0.0	0.0
80°	99.9	53.8	16.9	9.2	4.6	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	49.2	26.1	10.8	7.7	4.6	1.5	0.0	0.0	0.0	0.0	0.0
85°	27.7	16.9	9.2	7.7	4.6	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	20.0	12.3	9.2	7.7	6.1	3.1	1.5	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)