

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: P453720

Luminaire Tested: **GALN-SA4D-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453720
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-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 20462 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

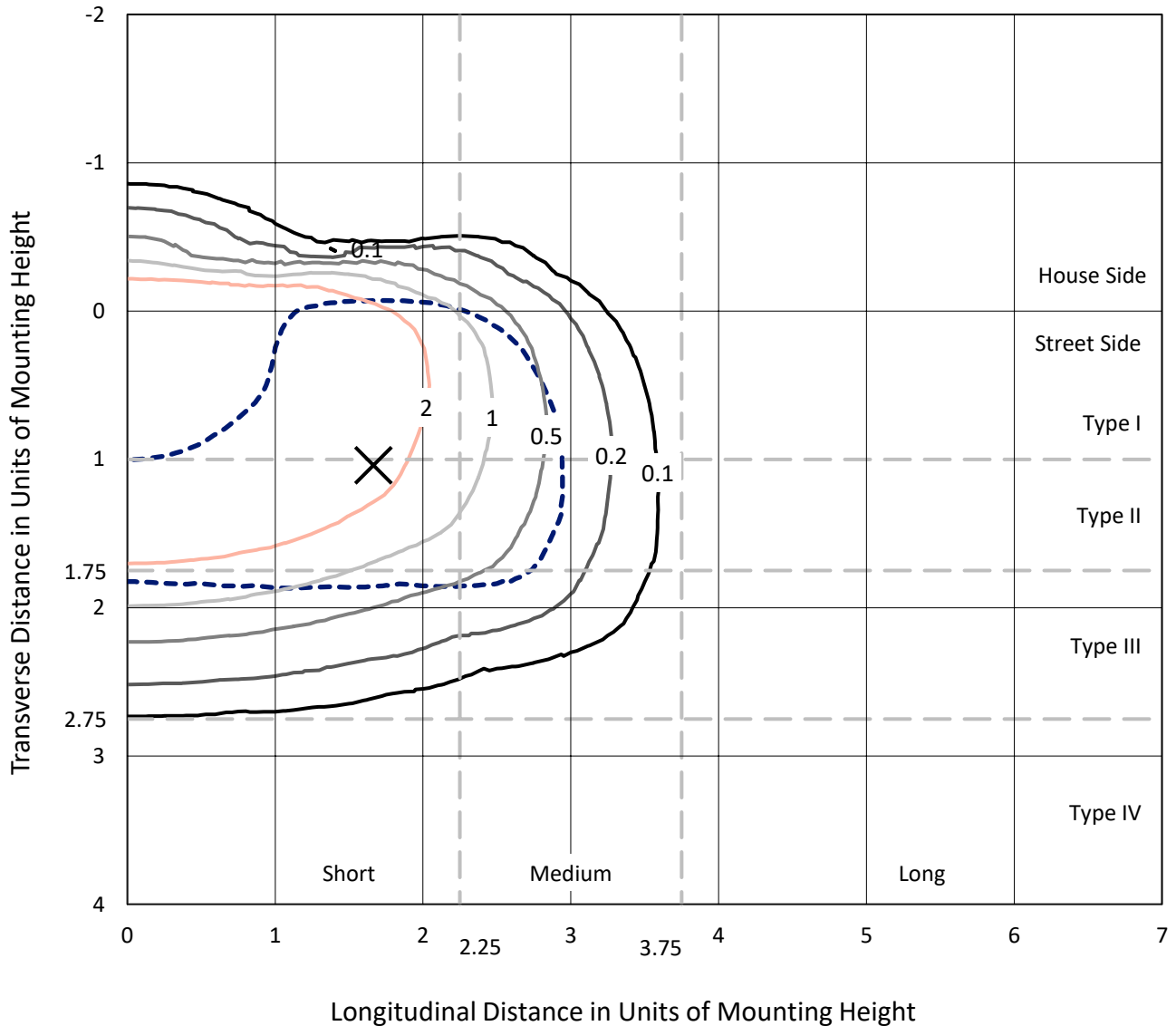
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

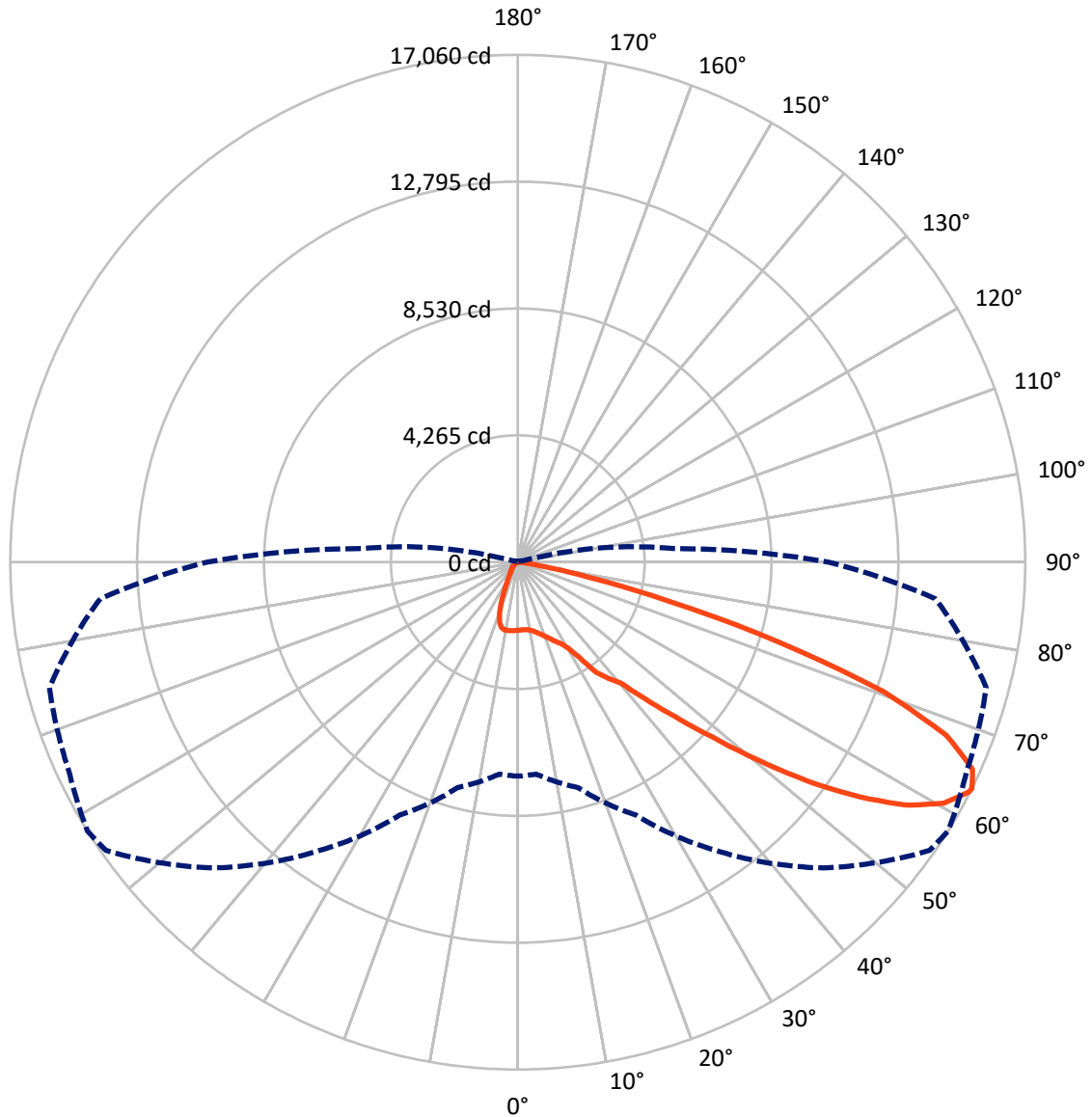
✕ Max cd
 - - - 1/2 Max cd



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	2118.7	0.0	2118.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18343.3	0.0	18343.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	20462.0	0.0	20462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.0
10°-20°	584.1	2.9
20°-30°	1013.7	5.0
30°-40°	1862.8	9.1
40°-50°	3506.7	17.1
50°-60°	5997.9	29.3
60°-70°	5743.0	28.1
70°-80°	1464.5	7.2
80°-90°	74.9	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°	20462.0	100.0
0°-180°	20462.0	100.0

Coefficient of Utilization



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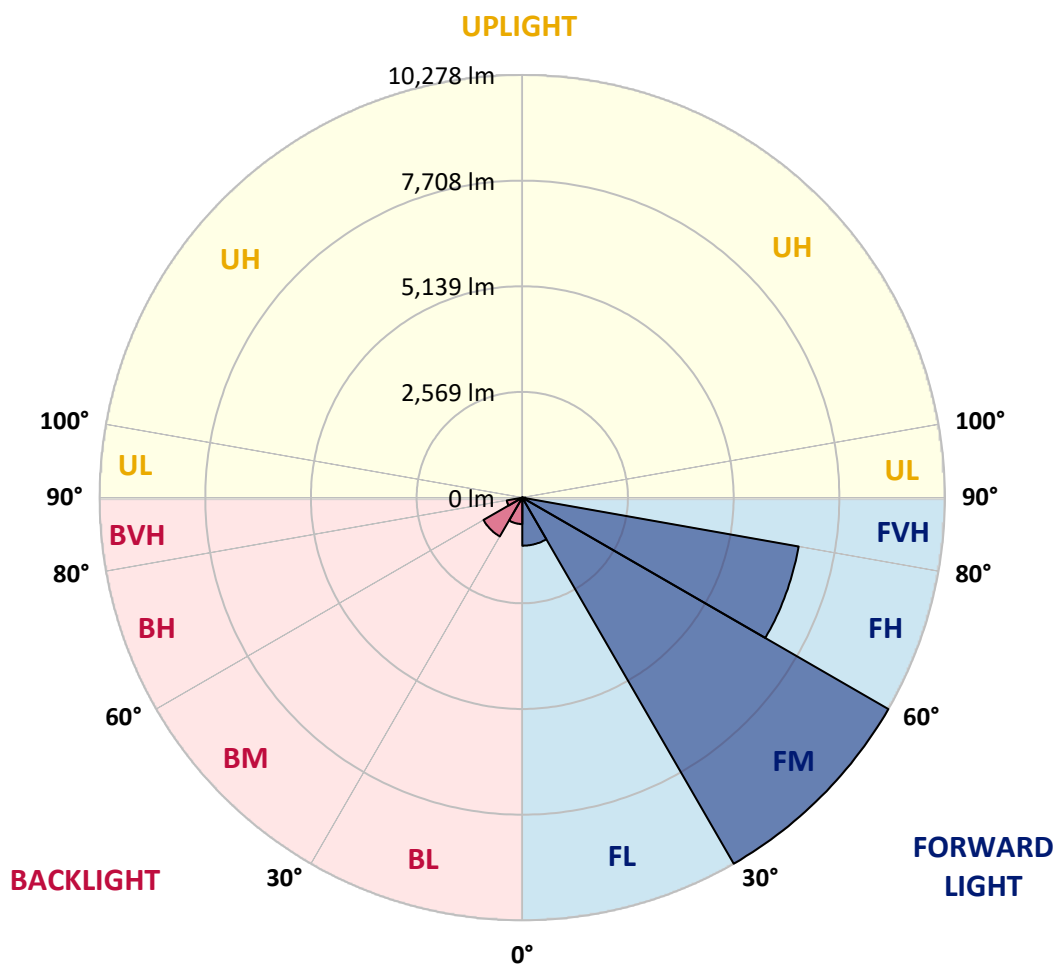
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.7	5.7			
FM (30°-60°)	10277.7	50.2			
FH (60°-80°)	6824.0	33.3			G3/7500
FVH (80°-90°)	72.0	0.4			G1/100
BL (0°-30°)	642.5	3.1	B2/1000		
BM (30°-60°)	1089.7	5.3	B2/2500		
BH (60°-80°)	383.5	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°	2290.8	2290.8	2290.8	2290.8	2290.8	2290.8	2290.8	2290.8	2290.8	2290.8	2290.8
2.5°	2233.8	2241.5	2249.2	2252.3	2263.1	2273.9	2281.6	2280.0	2292.3	2298.5	2298.5
5°	2144.4	2144.4	2164.5	2183.0	2213.8	2244.6	2273.9	2280.0	2303.1	2324.7	2332.4
7.5°	2069.0	2073.6	2089.0	2122.9	2164.5	2218.4	2276.9	2290.8	2330.9	2378.6	2398.6
10°	2033.5	2036.6	2056.6	2092.1	2144.4	2218.4	2300.0	2326.2	2387.9	2463.3	2491.1
12.5°	2025.8	2030.4	2050.5	2090.5	2150.6	2240.0	2350.9	2378.6	2468.0	2565.0	2606.6
15°	2039.7	2042.8	2062.8	2105.9	2172.2	2278.5	2418.7	2457.2	2563.5	2675.9	2729.9
17.5°	2089.0	2085.9	2099.8	2135.2	2209.2	2326.2	2500.3	2546.5	2671.3	2825.4	2860.8
20°	2298.5	2278.5	2266.2	2235.3	2264.6	2394.0	2598.9	2666.7	2820.7	2977.9	3002.5
22.5°	2749.9	2705.2	2617.4	2497.2	2404.8	2486.5	2717.5	2796.1	2994.8	3148.9	3148.9
25°	3324.5	3267.5	3179.7	2917.8	2691.3	2639.0	2851.6	2950.2	3184.3	3339.9	3289.1
27.5°	4043.9	3999.3	3828.3	3523.2	3176.6	2905.5	3007.2	3098.0	3352.2	3540.2	3433.9
30°	4629.4	4607.8	4467.6	4194.9	3812.9	3416.9	3296.8	3356.9	3575.6	3792.8	3683.5
32.5°	5123.9	5123.9	4980.6	4726.4	4369.0	4017.8	3788.2	3831.4	4040.9	4292.0	4088.6
35°	5667.7	5649.2	5533.7	5291.8	4891.3	4581.6	4487.6	4546.2	4735.7	4922.1	4421.4
37.5°	6239.2	6233.1	6112.9	5878.7	5552.1	5162.4	4942.1	4957.5	5054.5	5168.6	4811.1
40°	6860.1	6869.3	6712.2	6567.4	6259.3	5860.3	5438.1	5341.1	5432.0	5754.0	5530.6
42.5°	7593.4	7571.8	7504.0	7306.8	7058.8	6820.0	6313.2	6277.7	6357.9	6702.9	6461.1
45°	8445.3	8476.1	8359.0	8249.7	8083.3	7884.5	7460.9	7399.3	7487.1	8023.2	7679.6
47.5°	9298.8	9269.5	9345.0	9325.0	9414.3	9266.4	8892.1	8765.7	8976.8	9485.2	8979.9
50°	9948.9	9981.2	10138.4	10367.9	10751.5	10834.7	10475.8	10432.6	10526.6	10853.2	10143.0
52.5°	10371.0	10478.8	10725.3	11315.4	12007.1	12544.7	12272.0	12248.9	12210.4	12298.2	11255.3
55°	10646.8	10756.1	11078.1	11947.0	13137.8	14011.3	14025.2	13926.6	13672.4	13609.2	12295.1
57.5°	10477.3	10498.9	10957.9	12119.5	13764.8	15057.4	15510.3	15411.7	14941.8	14703.0	13213.3
60°	9417.4	9462.1	10101.4	11466.3	13492.1	15399.4	16494.7	16450.0	15935.5	15665.9	13928.1
62.5°	7539.5	7668.9	8326.7	9848.7	12224.3	14823.2	16893.7	17020.0	16619.5	16248.2	14153.0
63°	7194.4	7152.8	7847.6	9377.3	11888.4	14538.2	16899.8	17060.1	16650.3	16303.7	14091.4
65°	5325.7	5450.5	5901.9	7394.6	9893.4	13211.8	16519.3	16802.8	16536.3	16058.7	13409.0
67.5°	2990.2	2984.0	3483.2	4838.9	6924.8	10363.3	14937.2	15536.5	15481.0	14410.3	11115.1
70°	1463.5	1486.6	1691.5	2508.0	4016.2	7149.7	12412.2	13059.3	13079.3	11318.4	7685.8
72.5°	662.4	673.2	819.6	1221.7	2064.3	3806.7	8553.1	9170.9	9056.9	7212.9	4244.2
75°	349.7	372.8	451.4	614.7	995.2	1569.8	4652.5	5250.2	5011.4	3295.2	1562.1
77.5°	258.8	266.5	306.6	391.3	533.0	611.6	2007.3	2387.9	2236.9	1192.4	517.6
80°	189.5	195.7	228.0	277.3	335.8	311.2	756.4	867.3	778.0	405.2	158.7
82.5°	115.5	117.1	166.4	206.4	211.1	174.1	249.6	268.1	280.4	228.0	86.3
85°	41.6	52.4	112.5	149.4	124.8	87.8	104.8	115.5	126.3	144.8	50.8
87.5°	4.6	6.2	53.9	72.4	35.4	32.4	38.5	43.1	46.2	53.9	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°	2290.8	2290.8	2290.8	2290.8	2290.8	2290.8	2290.8	2290.8	2290.8	2290.8	2290.8
2.5°	2304.7	2310.8	2306.2	2298.5	2297.0	2292.3	2283.1	2283.1	2283.1	2286.2	2283.1
5°	2338.6	2343.2	2332.4	2317.0	2300.0	2278.5	2255.4	2241.5	2240.0	2236.9	2229.2
7.5°	2403.3	2409.4	2384.8	2347.8	2301.6	2249.2	2199.9	2153.7	2132.1	2115.2	2115.2
10°	2497.2	2503.4	2454.1	2387.9	2295.4	2189.1	2072.0	1965.7	1882.6	1844.0	1834.8
12.5°	2609.7	2612.8	2531.1	2415.6	2263.1	2058.2	1808.6	1576.0	1414.2	1340.3	1332.6
15°	2732.9	2711.4	2603.5	2426.4	2170.6	1788.6	1357.2	1072.2	904.3	855.0	873.5
17.5°	2857.7	2817.7	2659.0	2409.4	1962.7	1357.2	912.0	731.8	679.4	665.5	665.5
20°	2974.8	2919.3	2699.0	2335.5	1602.2	935.1	676.3	633.2	623.9	614.7	616.2
22.5°	3091.9	3007.2	2734.5	2170.6	1193.9	668.6	605.4	591.6	579.2	566.9	565.4
25°	3205.9	3088.8	2748.3	1865.6	813.4	574.6	553.1	534.6	509.9	496.1	493.0
27.5°	3324.5	3187.4	2739.1	1480.5	593.1	514.5	493.0	466.8	437.5	412.9	412.9
30°	3552.5	3375.3	2706.7	1064.5	499.1	452.9	425.2	383.6	351.2	326.6	325.1
32.5°	3863.7	3620.3	2595.8	748.7	443.7	399.0	357.4	311.2	277.3	258.8	258.8
35°	4141.0	3866.8	2387.9	551.5	399.0	346.6	295.8	251.1	224.9	212.6	208.0
37.5°	4563.1	4227.3	2101.3	448.3	355.9	300.4	248.0	206.4	184.9	175.6	175.6
40°	5196.3	4667.9	1750.1	392.8	314.3	255.7	206.4	174.1	157.1	146.4	146.4
42.5°	5982.0	5207.1	1394.2	352.8	275.8	220.3	172.5	147.9	132.5	124.8	123.2
45°	6971.0	5775.5	1073.8	315.8	244.9	187.9	146.4	124.8	109.4	104.8	106.3
47.5°	8003.2	6276.2	831.9	283.5	212.6	158.7	124.8	107.8	97.1	90.9	90.9
50°	8884.4	6621.3	631.6	246.5	187.9	134.0	109.4	97.1	87.8	84.7	83.2
52.5°	9620.7	6721.4	483.7	214.1	164.8	115.5	97.1	87.8	80.1	75.5	75.5
55°	10247.7	6633.6	379.0	180.2	138.6	100.1	86.3	78.6	69.3	64.7	63.2
57.5°	10614.4	6351.7	289.6	149.4	112.5	83.2	75.5	66.2	55.5	47.8	47.8
60°	10799.3	5941.9	221.8	123.2	86.3	66.2	61.6	49.3	38.5	32.4	30.8
62.5°	10577.4	5398.1	167.9	97.1	64.7	49.3	41.6	35.4	24.6	18.5	18.5
63°	10440.3	5241.0	161.8	92.4	60.1	46.2	38.5	32.4	21.6	16.9	15.4
65°	9517.5	4555.4	132.5	73.9	47.8	32.4	26.2	23.1	15.4	7.7	6.2
67.5°	7557.9	3484.7	104.8	55.5	33.9	23.1	15.4	13.9	4.6	0.0	0.0
70°	5110.0	2250.7	81.6	40.1	23.1	13.9	7.7	6.2	1.5	0.0	0.0
72.5°	2665.2	1153.9	63.2	29.3	13.9	9.2	4.6	1.5	0.0	0.0	0.0
75°	942.8	392.8	46.2	18.5	9.2	4.6	1.5	0.0	0.0	0.0	0.0
77.5°	285.0	146.4	29.3	13.9	6.2	3.1	0.0	0.0	0.0	0.0	0.0
80°	100.1	53.9	16.9	9.2	4.6	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	49.3	26.2	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	6.2	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)