

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: P455112

Luminaire Tested: **GALN-SA6B-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455112
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-SA6B-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 22561 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

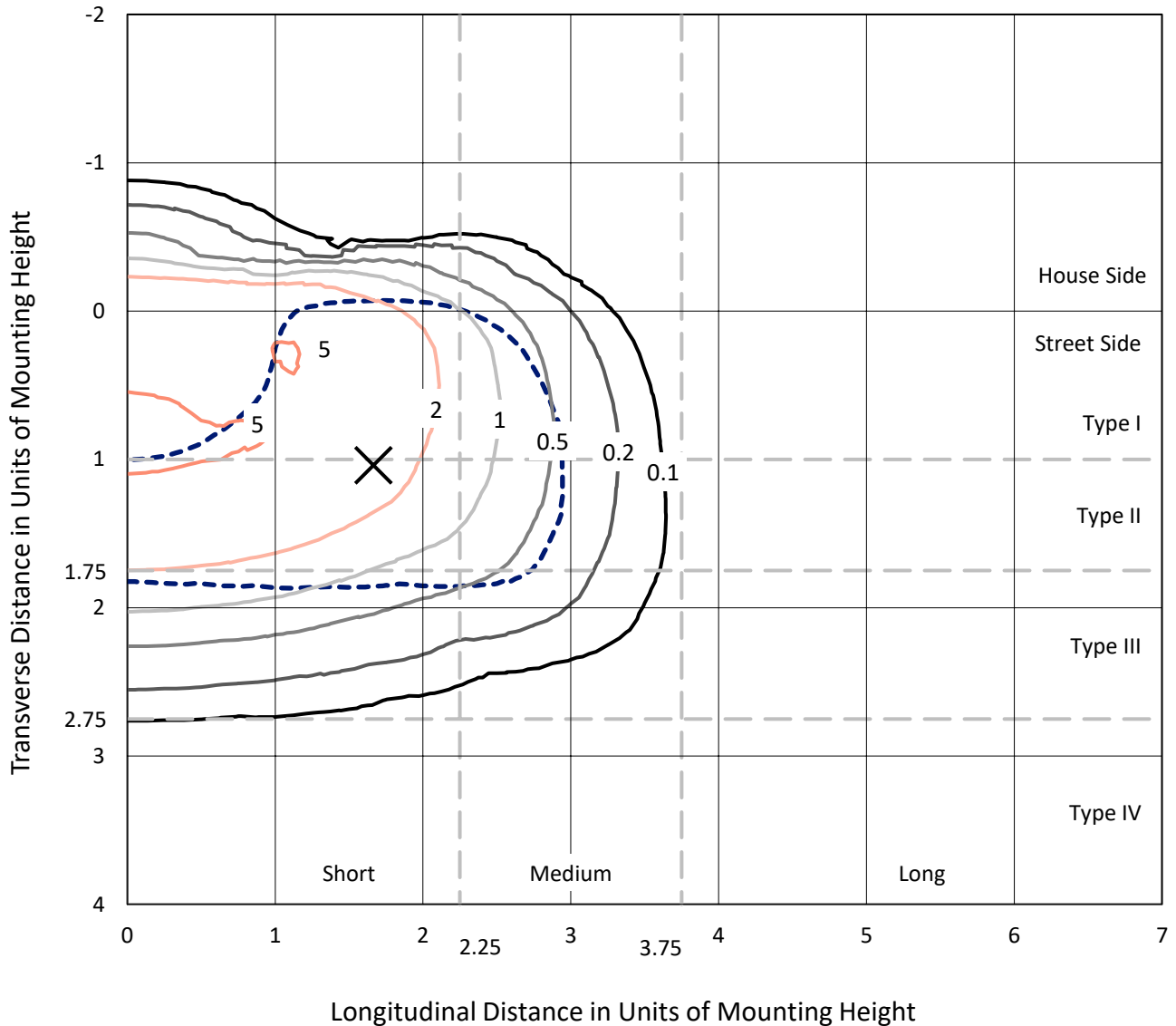
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

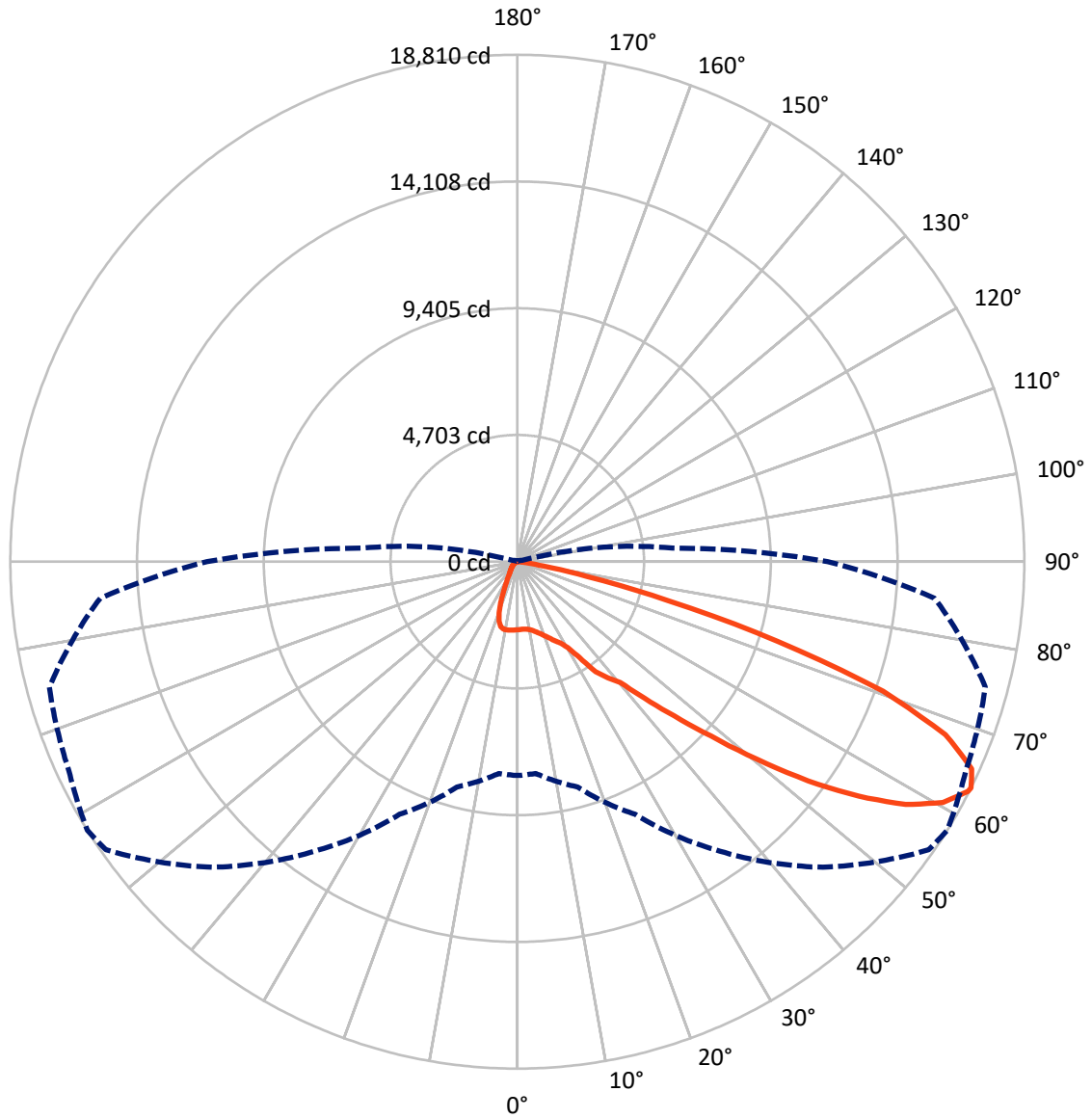
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2336.0	0.0	2336.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20225.0	0.0	20225.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	22561.0	0.0	22561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.4	1.0
10°-20°	644.0	2.9
20°-30°	1117.7	5.0
30°-40°	2053.9	9.1
40°-50°	3866.4	17.1
50°-60°	6613.2	29.3
60°-70°	6332.1	28.1
70°-80°	1614.7	7.2
80°-90°	82.6	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°	22561.0	100.0
0°-180°	22561.0	100.0

Coefficient of Utilization



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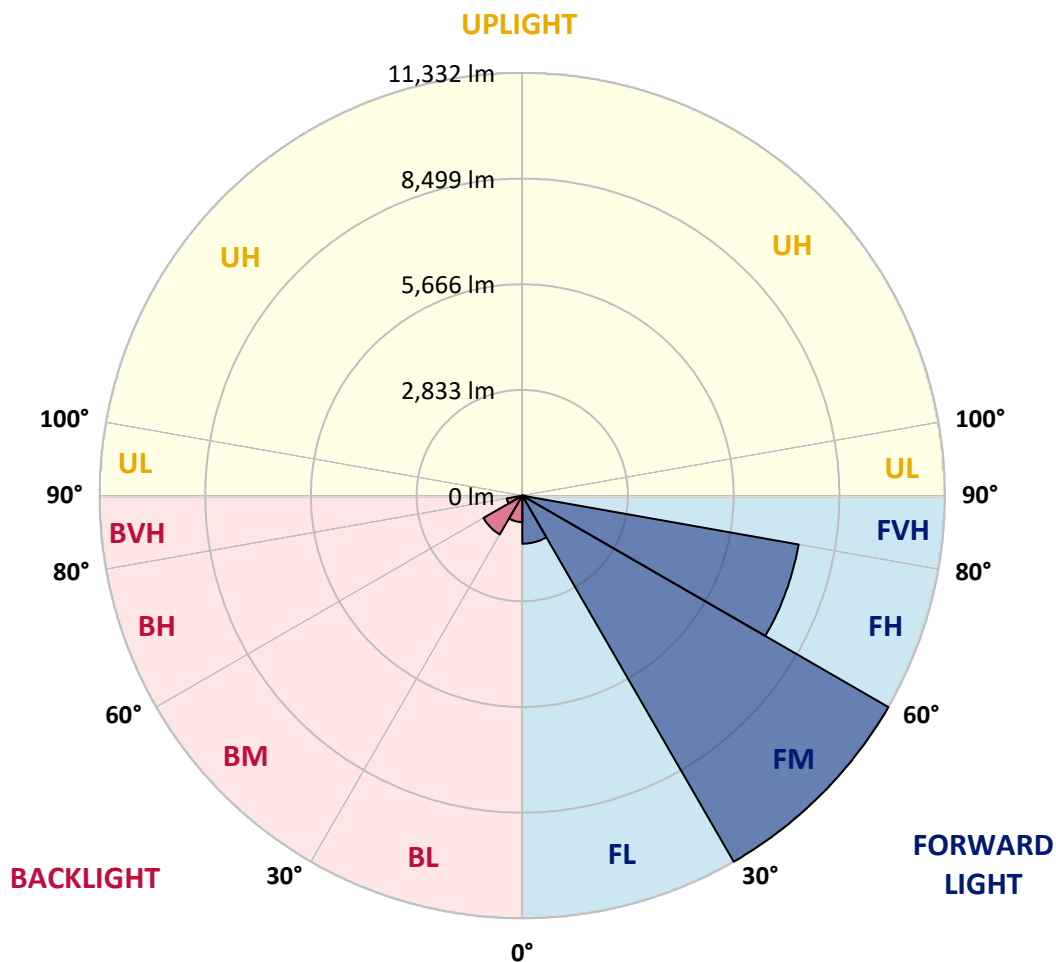
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1289.7	5.7			
FM	(30°-60°)	11331.9	50.2			
FH	(60°-80°)	7524.0	33.3			G4/12000
FVH	(80°-90°)	79.4	0.4			G1/100
BL	(0°-30°)	708.5	3.1	B2/1000		
BM	(30°-60°)	1201.5	5.3	B2/2500		
BH	(60°-80°)	422.9	1.9	B1/500		G1/500
BVH	(80°-90°)	3.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2525.8	2525.8	2525.8	2525.8	2525.8	2525.8	2525.8	2525.8	2525.8	2525.8	2525.8
2.5°	2462.9	2471.4	2479.9	2483.3	2495.2	2507.1	2515.6	2513.9	2527.5	2534.3	2534.3
5°	2364.4	2364.4	2386.5	2406.9	2440.9	2474.8	2507.1	2513.9	2539.4	2563.2	2571.7
7.5°	2281.2	2286.3	2303.3	2340.6	2386.5	2446.0	2510.5	2525.8	2570.0	2622.6	2644.7
10°	2242.1	2245.5	2267.6	2306.7	2364.4	2446.0	2536.0	2564.9	2632.8	2716.0	2746.6
12.5°	2233.6	2238.7	2260.8	2305.0	2371.2	2469.7	2592.0	2622.6	2721.1	2828.1	2874.0
15°	2248.9	2252.3	2274.4	2322.0	2395.0	2512.2	2666.8	2709.2	2826.4	2950.4	3009.9
17.5°	2303.3	2299.9	2315.2	2354.2	2435.8	2564.9	2756.8	2807.8	2945.3	3115.2	3154.3
20°	2534.3	2512.2	2498.6	2464.6	2496.9	2639.6	2865.5	2940.2	3110.1	3283.4	3310.5
22.5°	3032.0	2982.7	2885.9	2753.4	2651.5	2741.5	2996.3	3082.9	3302.0	3471.9	3471.9
25°	3665.5	3602.7	3505.9	3217.1	2967.4	2909.7	3144.1	3252.8	3511.0	3682.5	3626.5
27.5°	4458.8	4409.5	4221.0	3884.7	3502.5	3203.5	3315.6	3415.8	3696.1	3903.3	3786.1
30°	5104.2	5080.5	4925.9	4625.2	4204.0	3767.5	3635.0	3701.2	3942.4	4181.9	4061.3
32.5°	5649.5	5649.5	5491.5	5211.2	4817.2	4429.9	4176.8	4224.4	4455.4	4732.2	4508.0
35°	6249.1	6228.7	6101.3	5834.6	5393.0	5051.6	4948.0	5012.5	5221.4	5427.0	4874.9
37.5°	6879.3	6872.5	6740.0	6481.8	6121.7	5691.9	5449.1	5466.0	5573.0	5698.7	5304.7
40°	7563.8	7574.0	7400.7	7241.1	6901.3	6461.4	5996.0	5889.0	5989.2	6344.2	6097.9
42.5°	8372.3	8348.5	8273.8	8056.4	7782.9	7519.6	6960.8	6921.7	7010.0	7390.5	7123.9
45°	9311.6	9345.6	9216.5	9095.9	8912.5	8693.3	8226.2	8158.3	8255.1	8846.2	8467.4
47.5°	10252.6	10220.4	10303.6	10281.5	10380.0	10217.0	9804.2	9664.9	9897.6	10458.2	9901.0
50°	10969.4	11005.1	11178.4	11431.5	11854.4	11946.1	11550.4	11502.8	11606.4	11966.5	11183.5
52.5°	11434.9	11553.8	11825.5	12476.1	13238.7	13831.6	13530.9	13505.4	13463.0	13559.8	12409.8
55°	11738.9	11859.5	12214.5	13172.5	14485.5	15448.6	15463.9	15355.2	15074.9	15005.3	13556.4
57.5°	11552.1	11575.8	12082.0	13362.7	15176.8	16601.9	17101.3	16992.6	16474.5	16211.3	14568.7
60°	10383.4	10432.7	11137.6	12642.5	14876.2	16979.0	18186.7	18137.5	17570.1	17272.9	15356.9
62.5°	8312.9	8455.5	9180.8	10859.0	13478.2	16343.8	18626.6	18765.9	18324.3	17914.9	15604.9
63°	7932.4	7886.5	8652.6	10339.3	13108.0	16029.5	18633.4	18810.1	18358.3	17976.1	15536.9
65°	5872.0	6009.6	6507.3	8153.2	10908.3	14567.0	18213.9	18526.4	18232.6	17706.0	14784.5
67.5°	3296.9	3290.2	3840.5	5335.2	7635.1	11426.4	16469.4	17130.2	17069.0	15888.5	12255.3
70°	1613.7	1639.1	1865.0	2765.3	4428.2	7883.1	13685.5	14398.9	14421.0	12479.5	8474.2
72.5°	730.4	742.3	903.6	1347.0	2276.1	4197.2	9430.5	10111.7	9986.0	7952.8	4679.6
75°	385.6	411.1	497.7	677.7	1097.3	1730.9	5129.7	5788.8	5525.5	3633.3	1722.4
77.5°	285.4	293.9	338.0	431.4	587.7	674.3	2213.3	2632.8	2466.3	1314.7	570.7
80°	208.9	215.7	251.4	305.7	370.3	343.1	834.0	956.3	857.8	446.7	175.0
82.5°	127.4	129.1	183.4	227.6	232.7	191.9	275.2	295.6	309.1	251.4	95.1
85°	45.9	57.8	124.0	164.8	137.6	96.8	115.5	127.4	139.3	159.7	56.1
87.5°	5.1	6.8	59.5	79.8	39.1	35.7	42.5	47.6	51.0	59.5	27.2
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°	2525.8	2525.8	2525.8	2525.8	2525.8	2525.8	2525.8	2525.8	2525.8	2525.8	2525.8
2.5°	2541.1	2547.9	2542.8	2534.3	2532.6	2527.5	2517.3	2517.3	2517.3	2520.7	2517.3
5°	2578.4	2583.5	2571.7	2554.7	2536.0	2512.2	2486.7	2471.4	2469.7	2466.3	2457.8
7.5°	2649.8	2656.6	2629.4	2588.6	2537.7	2479.9	2425.6	2374.6	2350.8	2332.2	2332.2
10°	2753.4	2760.2	2705.8	2632.8	2530.9	2413.7	2284.6	2167.4	2075.7	2033.2	2023.0
12.5°	2877.4	2880.8	2790.8	2663.4	2495.2	2269.3	1994.1	1737.6	1559.3	1477.8	1469.3
15°	3013.3	2989.5	2870.6	2675.3	2393.3	1972.1	1496.5	1182.2	997.1	942.7	963.1
17.5°	3150.9	3106.7	2931.8	2656.6	2164.0	1496.5	1005.6	806.8	749.1	733.8	733.8
20°	3280.0	3218.8	2975.9	2575.1	1766.5	1031.0	745.7	698.1	687.9	677.7	679.4
22.5°	3409.1	3315.6	3015.0	2393.3	1316.4	737.2	667.5	652.3	638.7	625.1	623.4
25°	3534.7	3405.7	3030.3	2057.0	896.9	633.6	609.8	589.4	562.2	546.9	543.5
27.5°	3665.5	3514.4	3020.1	1632.3	654.0	567.3	543.5	514.7	482.4	455.2	455.2
30°	3916.9	3721.6	2984.4	1173.7	550.3	499.4	468.8	422.9	387.3	360.1	358.4
32.5°	4260.0	3991.7	2862.1	825.5	489.2	439.9	394.1	343.1	305.7	285.4	285.4
35°	4565.8	4263.4	2632.8	608.1	439.9	382.2	326.1	276.9	248.0	234.4	229.3
37.5°	5031.2	4660.9	2316.9	494.3	392.4	331.2	273.5	227.6	203.8	193.6	193.6
40°	5729.3	5146.7	1929.6	433.1	346.5	282.0	227.6	191.9	173.3	161.4	161.4
42.5°	6595.6	5741.2	1537.2	389.0	304.0	242.9	190.2	163.1	146.1	137.6	135.9
45°	7686.1	6368.0	1183.9	348.2	270.1	207.2	161.4	137.6	120.6	115.5	117.2
47.5°	8824.1	6920.0	917.2	312.5	234.4	175.0	137.6	118.9	107.0	100.2	100.2
50°	9795.7	7300.5	696.4	271.8	207.2	147.8	120.6	107.0	96.8	93.4	91.7
52.5°	10607.6	7410.9	533.4	236.1	181.7	127.4	107.0	96.8	88.3	83.2	83.2
55°	11299.0	7314.1	417.9	198.7	152.9	110.4	95.1	86.6	76.4	71.3	69.6
57.5°	11703.2	7003.3	319.3	164.8	124.0	91.7	83.2	73.0	61.1	52.7	52.7
60°	11907.1	6551.4	244.6	135.9	95.1	73.0	67.9	54.4	42.5	35.7	34.0
62.5°	11662.5	5951.8	185.1	107.0	71.3	54.4	45.9	39.1	27.2	20.4	20.4
63°	11511.3	5778.6	178.4	101.9	66.2	51.0	42.5	35.7	23.8	18.7	17.0
65°	10493.8	5022.7	146.1	81.5	52.7	35.7	28.9	25.5	17.0	8.5	6.8
67.5°	8333.2	3842.2	115.5	61.1	37.4	25.5	17.0	15.3	5.1	0.0	0.0
70°	5634.2	2481.6	90.0	44.2	25.5	15.3	8.5	6.8	1.7	0.0	0.0
72.5°	2938.5	1272.2	69.6	32.3	15.3	10.2	5.1	1.7	0.0	0.0	0.0
75°	1039.5	433.1	51.0	20.4	10.2	5.1	1.7	0.0	0.0	0.0	0.0
77.5°	314.2	161.4	32.3	15.3	6.8	3.4	0.0	0.0	0.0	0.0	0.0
80°	110.4	59.5	18.7	10.2	5.1	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	54.4	28.9	11.9	8.5	5.1	1.7	0.0	0.0	0.0	0.0	0.0
85°	30.6	18.7	10.2	8.5	5.1	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	13.6	10.2	8.5	6.8	3.4	1.7	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)