

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: P456040

Luminaire Tested: **GALN-SA7B-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456040
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-SA7B-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 26500 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

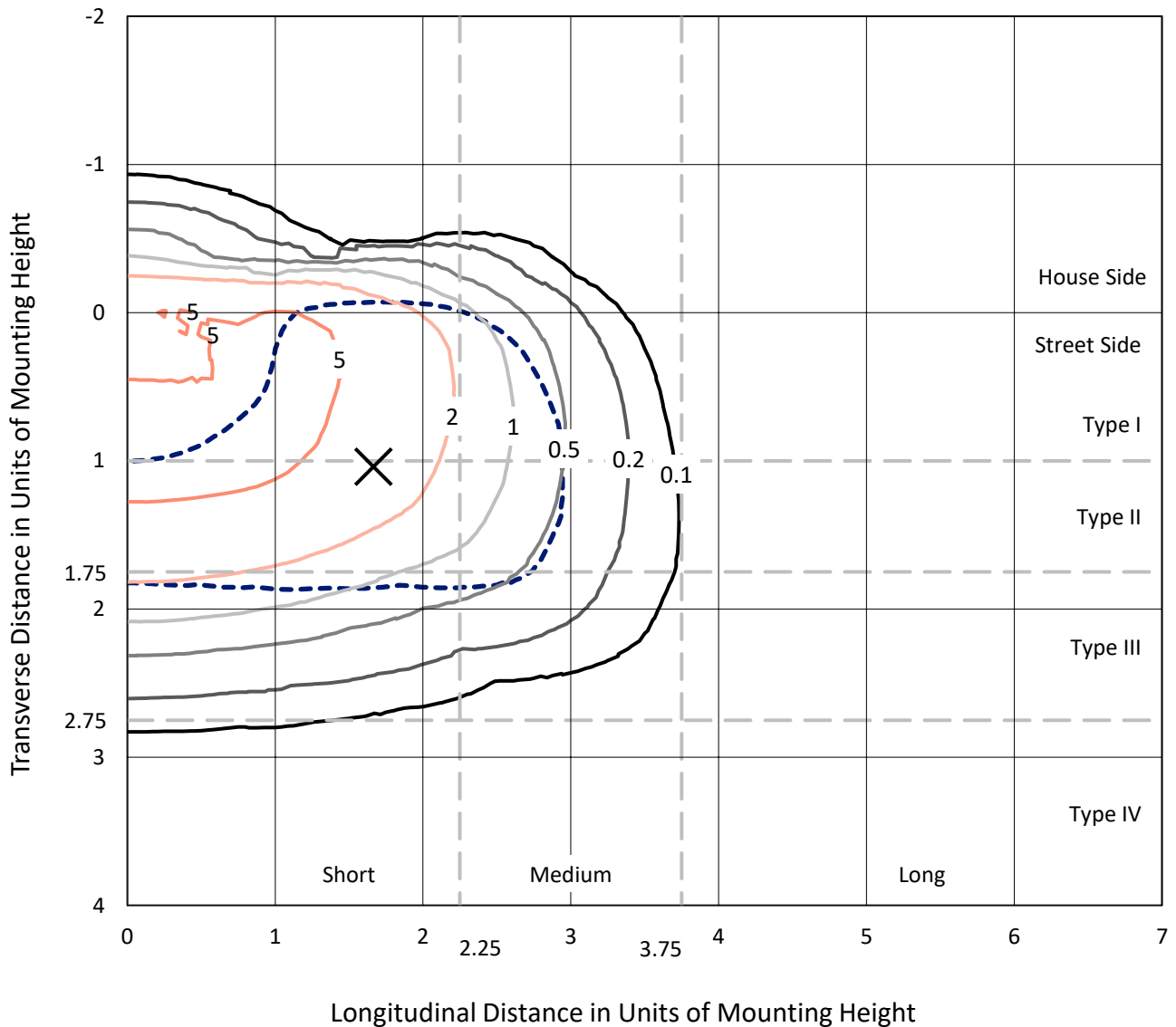
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

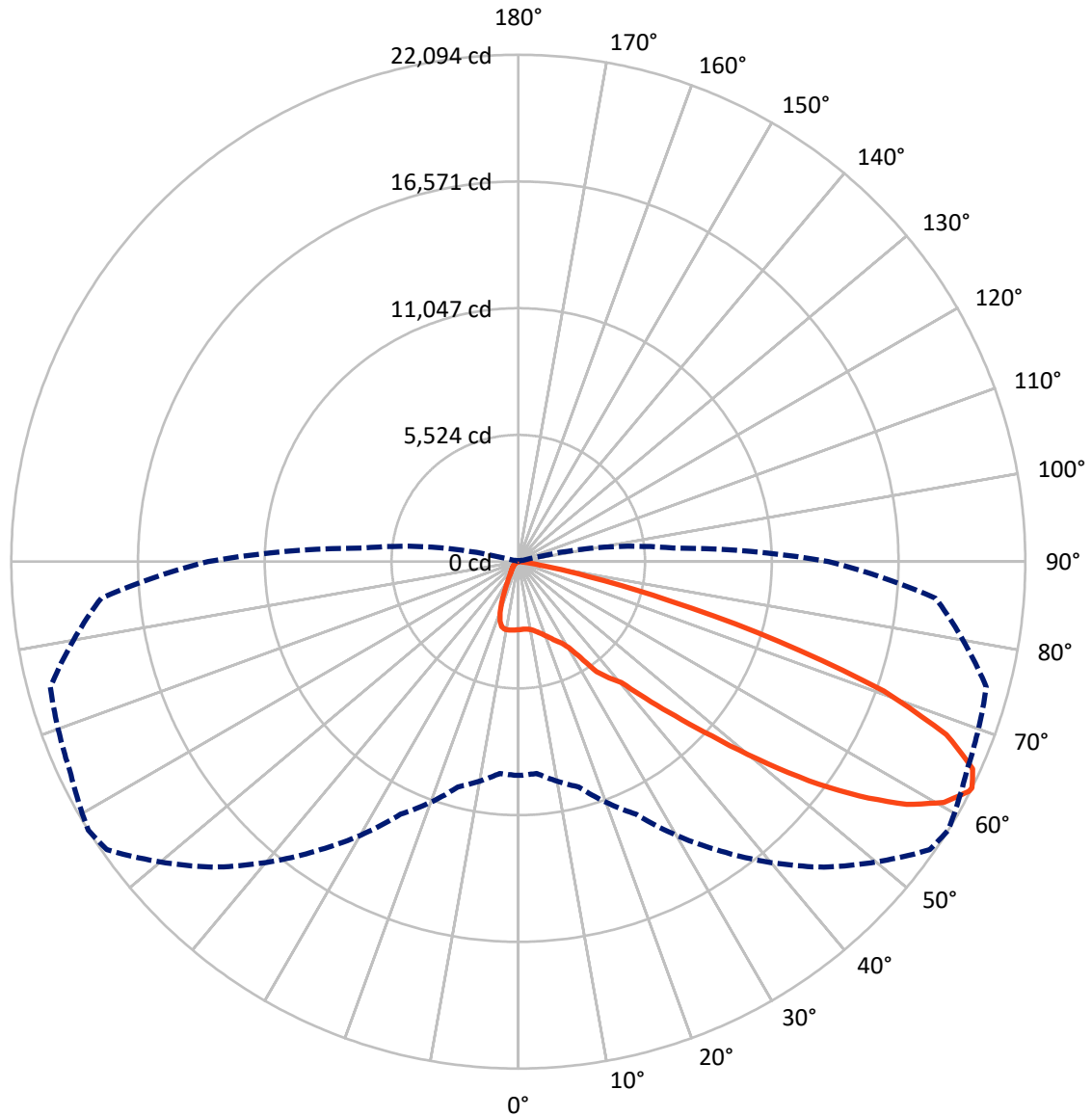
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	2743.9	0.0	2743.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23756.1	0.0	23756.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	26500.0	0.0	26500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	1.0
10°-20°	756.4	2.9
20°-30°	1312.8	5.0
30°-40°	2412.5	9.1
40°-50°	4541.4	17.1
50°-60°	7767.8	29.3
60°-70°	7437.7	28.1
70°-80°	1896.6	7.2
80°-90°	97.0	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°	26500.0	100.0
0°-180°	26500.0	100.0

Coefficient of Utilization



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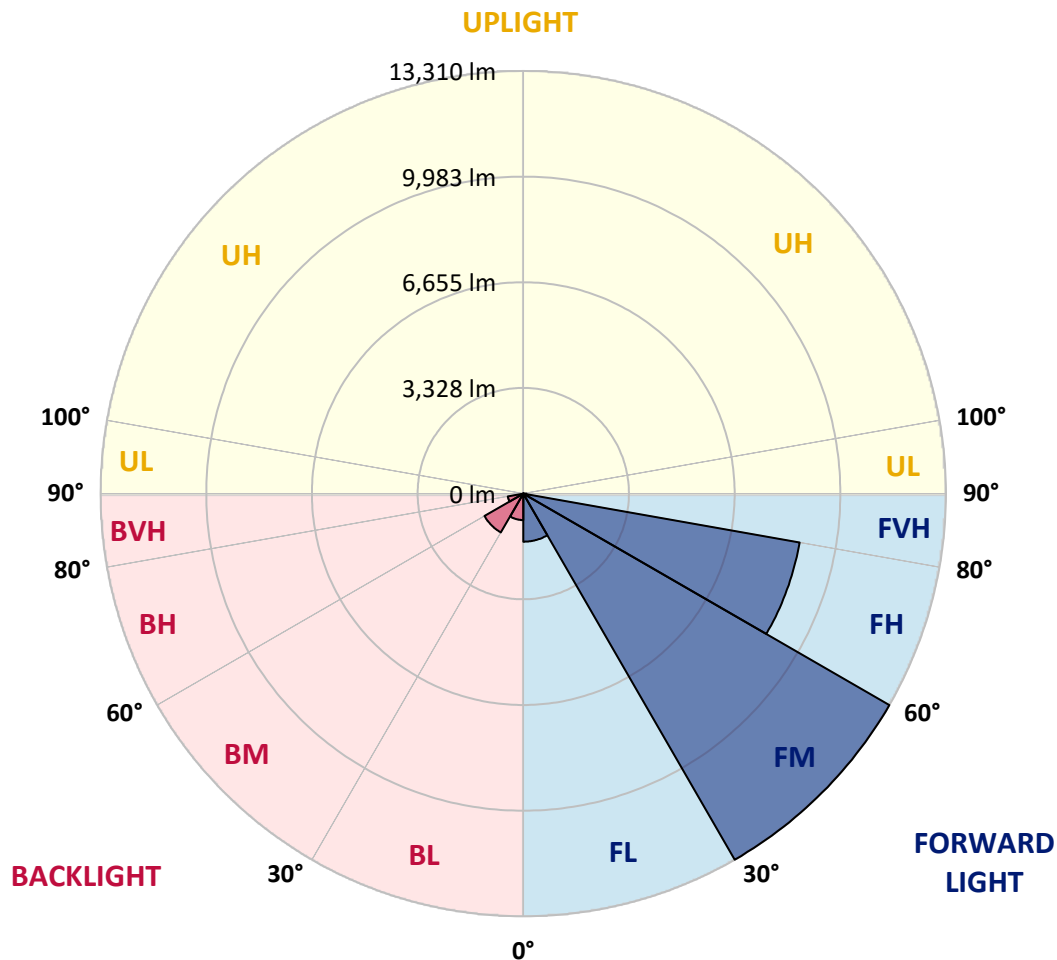
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1514.9	5.7			
FM (30°-60°)	13310.4	50.2			
FH (60°-80°)	8837.6	33.3			G4/12000
FVH (80°-90°)	93.2	0.4			G1/100
BL (0°-30°)	832.1	3.1	B2/1000		
BM (30°-60°)	1411.3	5.3	B2/2500		
BH (60°-80°)	496.7	1.9	B1/500		G1/500
BVH (80°-90°)	3.8	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°	2966.8	2966.8	2966.8	2966.8	2966.8	2966.8	2966.8	2966.8	2966.8	2966.8	2966.8
2.5°	2893.0	2902.9	2912.9	2916.9	2930.9	2944.8	2954.8	2952.8	2968.8	2976.8	2976.8
5°	2777.2	2777.2	2803.2	2827.1	2867.0	2906.9	2944.8	2952.8	2982.7	3010.7	3020.6
7.5°	2679.5	2685.5	2705.4	2749.3	2803.2	2873.0	2948.8	2966.8	3018.7	3080.5	3106.4
10°	2633.6	2637.6	2663.5	2709.4	2777.2	2873.0	2978.7	3012.7	3092.5	3190.2	3226.1
12.5°	2623.6	2629.6	2655.5	2707.4	2785.2	2900.9	3044.6	3080.5	3196.2	3321.9	3375.8
15°	2641.6	2645.6	2671.5	2727.4	2813.2	2950.8	3132.4	3182.3	3319.9	3465.6	3535.4
17.5°	2705.4	2701.4	2719.4	2765.3	2861.0	3012.7	3238.1	3298.0	3459.6	3659.1	3705.0
20°	2976.8	2950.8	2934.9	2895.0	2932.9	3100.5	3365.8	3453.6	3653.1	3856.6	3888.5
22.5°	3561.3	3503.5	3389.7	3234.1	3114.4	3220.2	3519.4	3621.2	3878.6	4078.1	4078.1
25°	4305.5	4231.7	4118.0	3778.8	3485.5	3417.7	3693.0	3820.7	4124.0	4325.5	4259.6
27.5°	5237.3	5179.4	4957.9	4562.9	4114.0	3762.8	3894.5	4012.2	4341.4	4584.8	4447.2
30°	5995.4	5967.5	5785.9	5432.8	4938.0	4425.2	4269.6	4347.4	4630.7	4912.0	4770.4
32.5°	6635.8	6635.8	6450.3	6121.1	5658.2	5203.3	4906.1	4961.9	5233.3	5558.5	5295.1
35°	7340.1	7316.2	7166.6	6853.3	6334.6	5933.6	5811.9	5887.7	6133.1	6374.5	5726.1
37.5°	8080.3	8072.3	7916.7	7613.5	7190.5	6685.7	6400.4	6420.4	6546.1	6693.7	6230.8
40°	8884.4	8896.3	8692.8	8505.3	8106.3	7589.5	7042.9	6917.2	7034.9	7451.9	7162.6
42.5°	9834.1	9806.1	9718.3	9463.0	9141.7	8832.5	8176.1	8130.2	8234.0	8680.9	8367.6
45°	10937.4	10977.3	10825.6	10684.0	10468.5	10211.1	9662.5	9582.7	9696.4	10390.7	9945.8
47.5°	12042.7	12004.8	12102.5	12076.6	12192.3	12000.8	11516.0	11352.4	11625.7	12284.1	11629.7
50°	12884.6	12926.5	13130.0	13427.3	13924.1	14031.8	13567.0	13511.1	13632.8	14055.8	13136.0
52.5°	13431.3	13571.0	13890.2	14654.3	15550.1	16246.4	15893.3	15863.4	15813.5	15927.2	14576.5
55°	13788.4	13930.1	14347.1	15472.3	17014.6	18145.8	18163.8	18036.1	17706.9	17625.1	15923.2
57.5°	13569.0	13596.9	14191.5	15695.8	17826.6	19500.5	20087.1	19959.4	19350.9	19041.6	17112.3
60°	12196.3	12254.2	13082.2	14849.8	17473.5	19943.4	21362.0	21304.1	20637.8	20288.6	18038.1
62.5°	9764.2	9931.8	10783.7	12754.9	15831.5	19197.3	21878.7	22042.3	21523.6	21042.8	18329.4
63°	9317.3	9263.4	10163.3	12144.4	15396.5	18828.2	21886.7	22094.2	21563.5	21114.6	18249.6
65°	6897.2	7058.8	7643.4	9576.7	12812.8	17110.3	21393.9	21761.0	21415.9	20797.4	17365.7
67.5°	3872.6	3864.6	4511.0	6266.7	8968.2	13421.3	19344.9	20121.0	20049.2	18662.6	14395.0
70°	1895.4	1925.3	2190.7	3248.1	5201.3	9259.5	16074.9	16912.8	16938.8	14658.3	9953.8
72.5°	857.9	871.9	1061.4	1582.1	2673.5	4930.0	11077.0	11877.1	11729.4	9341.3	5496.6
75°	452.9	482.8	584.6	796.1	1288.9	2033.1	6025.3	6799.4	6490.2	4267.6	2023.1
77.5°	335.2	345.2	397.0	506.8	690.3	792.1	2599.7	3092.5	2896.9	1544.2	670.4
80°	245.4	253.4	295.3	359.1	434.9	403.0	979.6	1123.3	1007.5	524.7	205.5
82.5°	149.6	151.6	215.5	267.3	273.3	225.5	323.2	347.2	363.1	295.3	111.7
85°	53.9	67.8	145.6	193.5	161.6	113.7	135.7	149.6	163.6	187.5	65.8
87.5°	6.0	8.0	69.8	93.8	45.9	41.9	49.9	55.9	59.9	69.8	31.9
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°	2966.8	2966.8	2966.8	2966.8	2966.8	2966.8	2966.8	2966.8	2966.8	2966.8	2966.8
2.5°	2984.7	2992.7	2986.7	2976.8	2974.8	2968.8	2956.8	2956.8	2956.8	2960.8	2956.8
5°	3028.6	3034.6	3020.6	3000.7	2978.7	2950.8	2920.9	2902.9	2900.9	2896.9	2887.0
7.5°	3112.4	3120.4	3088.5	3040.6	2980.7	2912.9	2849.1	2789.2	2761.3	2739.3	2739.3
10°	3234.1	3242.1	3178.3	3092.5	2972.8	2835.1	2683.5	2545.8	2438.1	2388.2	2376.2
12.5°	3379.8	3383.8	3278.0	3128.4	2930.9	2665.5	2342.3	2041.0	1831.5	1735.8	1725.8
15°	3539.4	3511.5	3371.8	3142.4	2811.2	2316.4	1757.7	1388.6	1171.1	1107.3	1131.2
17.5°	3701.0	3649.1	3443.6	3120.4	2541.8	1757.7	1181.1	947.7	879.9	861.9	861.9
20°	3852.6	3780.8	3495.5	3024.6	2074.9	1211.1	875.9	820.0	808.0	796.1	798.1
22.5°	4004.3	3894.5	3541.4	2811.2	1546.2	865.9	784.1	766.1	750.2	734.2	732.2
25°	4151.9	4000.3	3559.3	2416.1	1053.4	744.2	716.3	692.3	660.4	642.4	638.4
27.5°	4305.5	4128.0	3547.4	1917.3	768.1	666.4	638.4	604.5	566.6	534.7	534.7
30°	4600.8	4371.4	3505.5	1378.6	646.4	586.6	550.7	496.8	454.9	423.0	421.0
32.5°	5003.8	4688.6	3361.8	969.6	574.6	516.7	462.9	403.0	359.1	335.2	335.2
35°	5362.9	5007.8	3092.5	714.3	516.7	448.9	383.1	325.2	291.3	275.3	269.3
37.5°	5909.6	5474.7	2721.4	580.6	460.9	389.1	321.2	267.3	239.4	227.4	227.4
40°	6729.6	6045.3	2266.5	508.8	407.0	331.2	267.3	225.5	203.5	189.5	189.5
42.5°	7747.1	6743.6	1805.6	456.9	357.1	285.3	223.5	191.5	171.6	161.6	159.6
45°	9028.0	7479.8	1390.6	409.0	317.2	243.4	189.5	161.6	141.7	135.7	137.7
47.5°	10364.8	8128.2	1077.4	367.1	275.3	205.5	161.6	139.7	125.7	117.7	117.7
50°	11506.0	8575.1	818.0	319.2	243.4	173.6	141.7	125.7	113.7	109.7	107.7
52.5°	12459.7	8704.8	626.5	277.3	213.5	149.6	125.7	113.7	103.7	97.8	97.8
55°	13271.7	8591.1	490.8	233.4	179.6	129.7	111.7	101.8	89.8	83.8	81.8
57.5°	13746.5	8226.0	375.1	193.5	145.6	107.7	97.8	85.8	71.8	61.8	61.8
60°	13986.0	7695.3	287.3	159.6	111.7	85.8	79.8	63.8	49.9	41.9	39.9
62.5°	13698.7	6991.0	217.5	125.7	83.8	63.8	53.9	45.9	31.9	23.9	23.9
63°	13521.1	6787.5	209.5	119.7	77.8	59.9	49.9	41.9	27.9	21.9	20.0
65°	12326.0	5899.6	171.6	95.8	61.8	41.9	33.9	29.9	20.0	10.0	8.0
67.5°	9788.2	4513.0	135.7	71.8	43.9	29.9	20.0	18.0	6.0	0.0	0.0
70°	6617.9	2914.9	105.7	51.9	29.9	18.0	10.0	8.0	2.0	0.0	0.0
72.5°	3451.6	1494.4	81.8	37.9	18.0	12.0	6.0	2.0	0.0	0.0	0.0
75°	1221.0	508.8	59.9	23.9	12.0	6.0	2.0	0.0	0.0	0.0	0.0
77.5°	369.1	189.5	37.9	18.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	129.7	69.8	21.9	12.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	63.8	33.9	14.0	10.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	35.9	21.9	12.0	10.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.9	16.0	12.0	10.0	8.0	4.0	2.0	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)