

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: P651486

Luminaire Tested: **GALN-SA6D-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27908.6 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

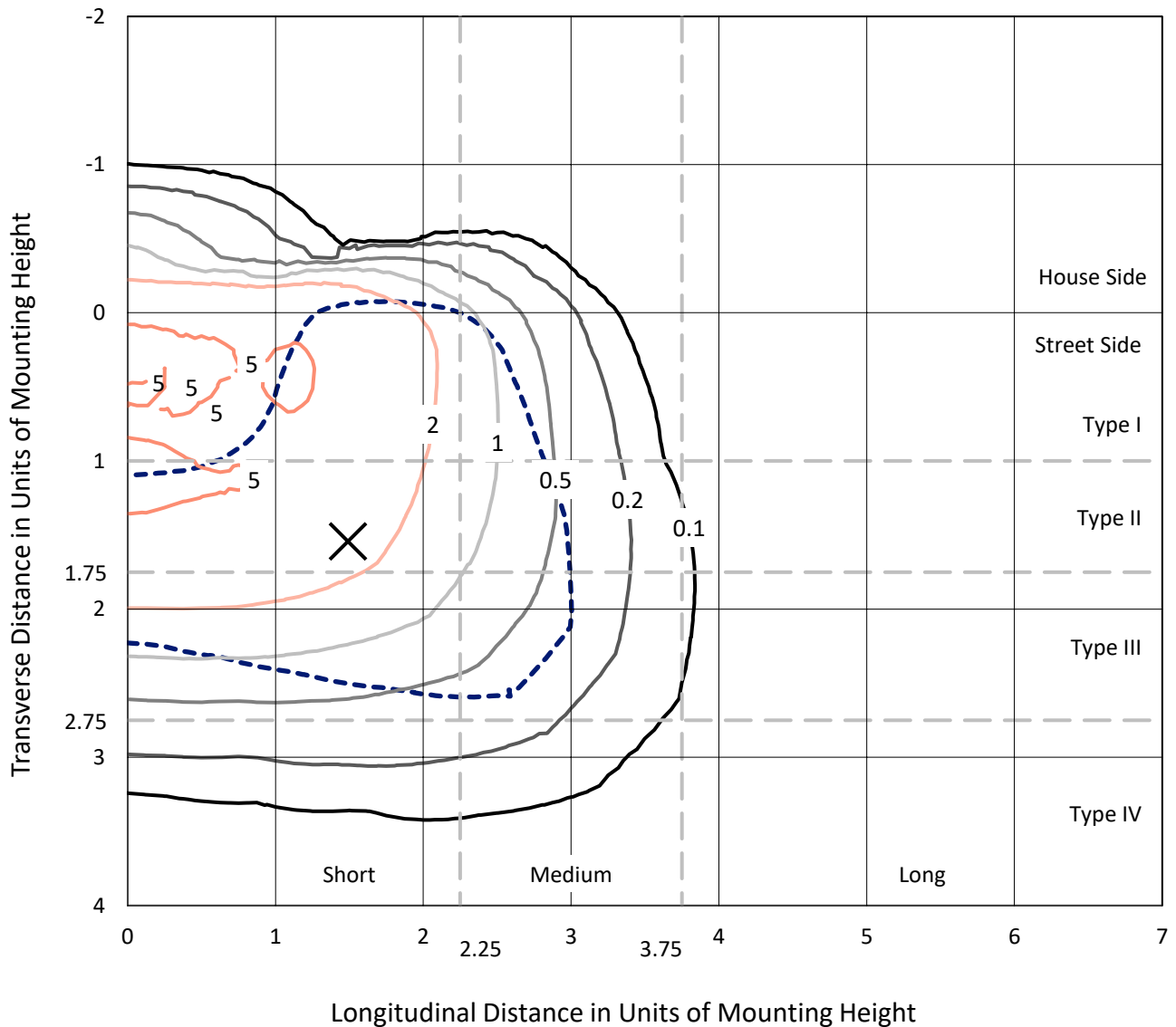
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA6D-840-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

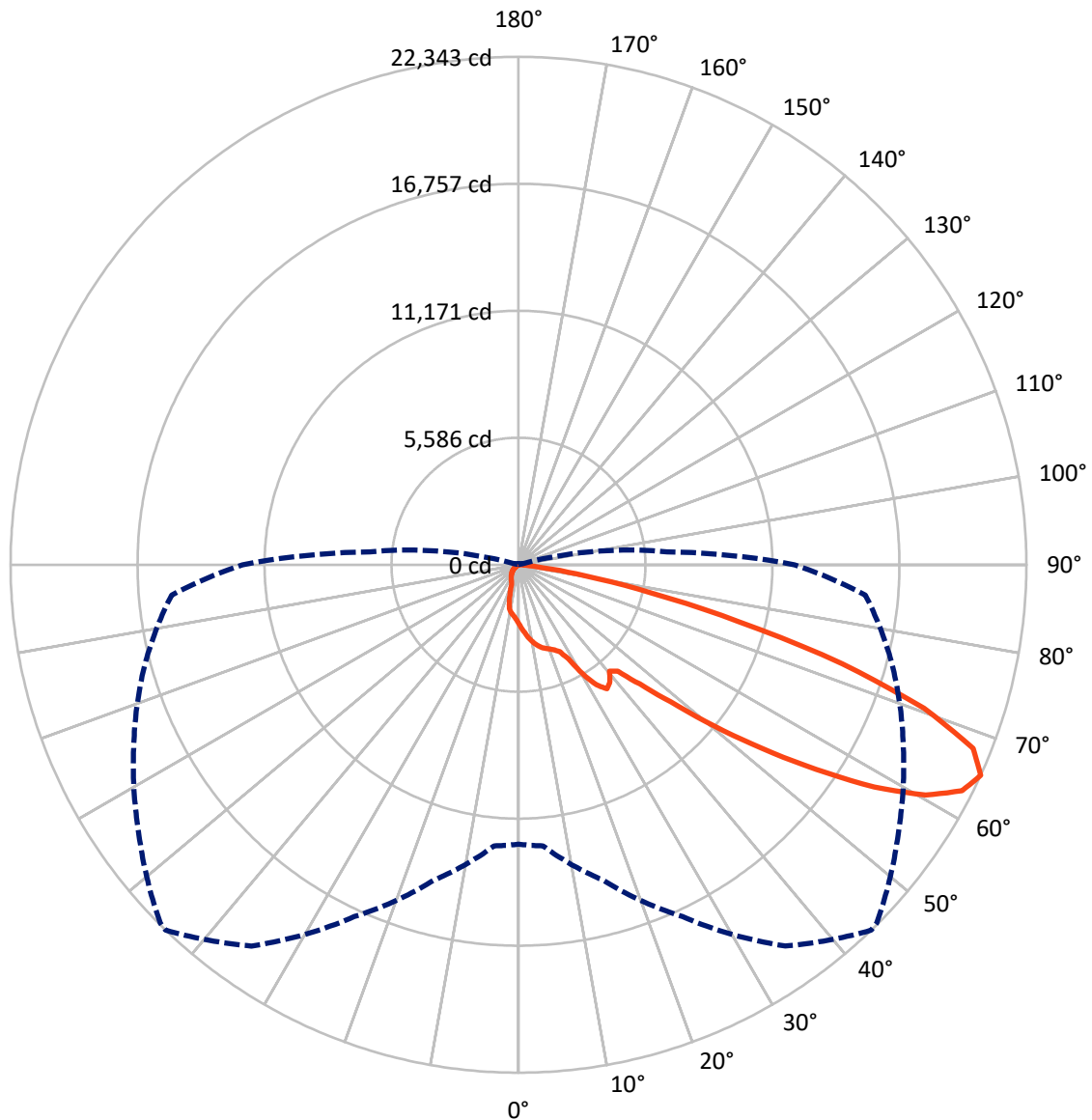
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SA6D-840-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2571.4	0.0	2571.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	25337.2	0.0	25337.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	27908.6	0.0	27908.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	0.9
10°-20°	777.5	2.8
20°-30°	1318.4	4.7
30°-40°	2192.1	7.9
40°-50°	3827.4	13.7
50°-60°	7477.4	26.8
60°-70°	8675.6	31.1
70°-80°	3159.2	11.3
80°-90°	222.6	0.8
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°	27908.6	100.0
0°-180°	27908.6	100.0

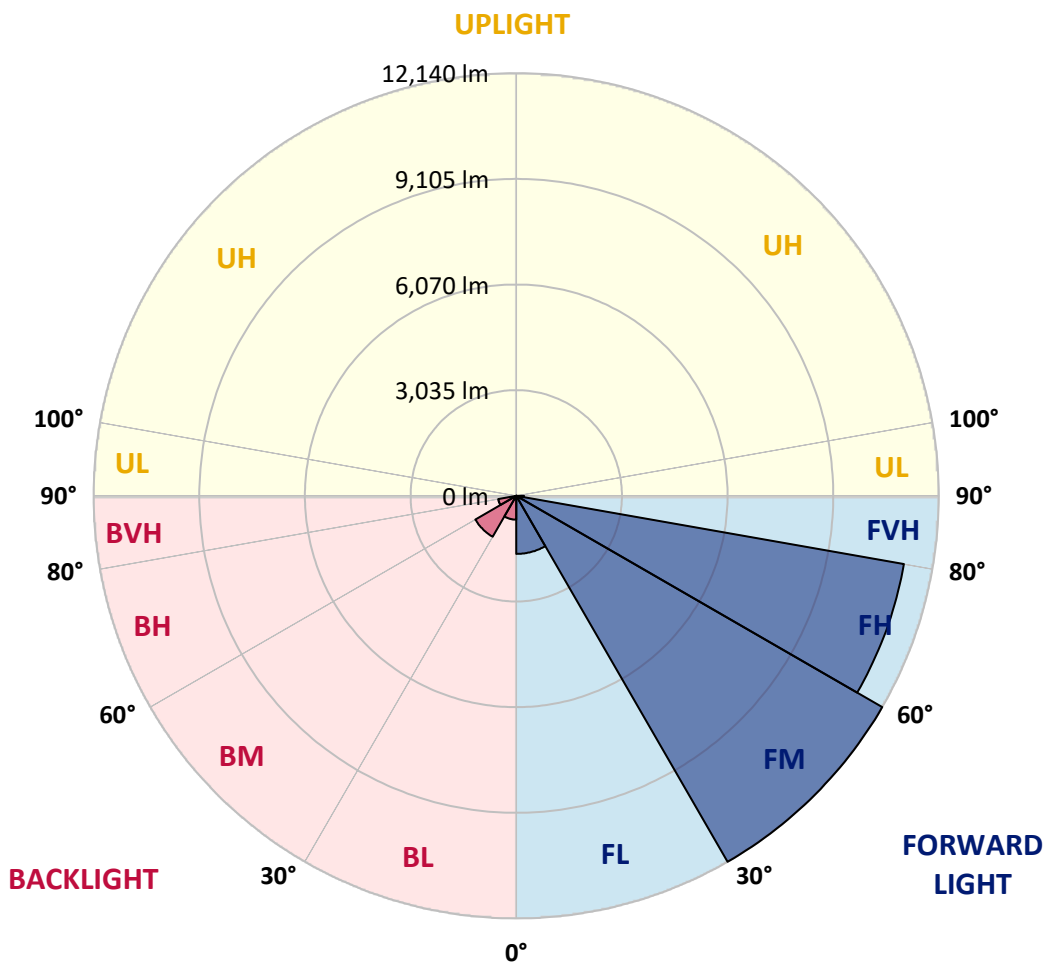


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1669.2	6.0			
FM (30°-60°)	12140.3	43.5			
FH (60°-80°)	11308.2	40.5			G4/12000
FVH (80°-90°)	219.6	0.8			G2/225
BL (0°-30°)	685.1	2.5	B2/1000		
BM (30°-60°)	1356.6	4.9	B2/2500		
BH (60°-80°)	526.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4
2.5°	2923.7	2911.0	2904.6	2870.4	2844.9	2812.8	2812.8	2772.4	2725.4	2674.2	2627.3
5°	3250.0	3228.7	3200.9	3171.1	3111.4	3026.1	3026.1	2940.8	2842.7	2755.3	2659.3
7.5°	3563.5	3544.3	3497.4	3439.9	3341.7	3252.1	3245.8	3122.0	3004.8	2872.5	2736.1
10°	3838.6	3823.7	3783.2	3672.2	3569.9	3452.6	3450.5	3311.9	3175.4	3013.3	2844.9
12.5°	4030.6	4032.7	3979.4	3872.7	3740.5	3629.6	3621.1	3484.6	3341.7	3166.9	2960.0
15°	4167.0	4167.0	4111.6	3992.1	3872.7	3774.7	3766.1	3646.7	3499.6	3309.8	3085.8
17.5°	4205.4	4218.2	4158.5	4051.9	3955.9	3870.6	3868.4	3768.3	3650.9	3467.5	3213.8
20°	4190.5	4203.2	4156.4	4073.2	4007.1	3958.0	3951.6	3911.2	3802.3	3629.6	3350.3
22.5°	4158.5	4171.3	4137.1	4088.1	4056.1	4071.0	4060.4	4094.5	4037.0	3828.0	3512.4
25°	4164.9	4177.7	4152.1	4124.3	4152.1	4243.8	4271.5	4418.7	4367.5	4079.6	3687.2
27.5°	4365.4	4390.9	4354.7	4367.5	4465.5	4678.8	4732.1	4986.0	4759.9	4399.4	3960.2
30°	4811.0	4794.0	4725.7	4787.6	5128.8	5580.9	5566.0	5525.5	5171.5	4768.4	4284.3
32.5°	5216.2	5201.3	5197.0	5463.6	6082.0	6301.7	6291.0	5898.7	5540.4	5190.7	4604.2
35°	5380.5	5322.9	5310.1	5956.2	6990.6	6700.5	6634.4	6052.2	5988.3	5651.3	4930.4
37.5°	5875.2	5834.7	5636.4	6037.3	6628.0	6532.0	6480.8	6316.7	6465.9	6058.6	5299.4
40°	6894.6	6781.6	6602.4	6210.0	6114.1	6154.6	6205.7	6655.8	7031.0	6615.2	5792.1
42.5°	8161.3	8135.7	7803.1	7071.5	6352.9	6408.3	6474.4	7363.7	7843.6	7453.3	6596.0
45°	9681.8	9718.1	9238.2	8374.6	7432.0	7478.8	7574.9	8408.7	8944.0	8756.3	7860.6
47.5°	11063.7	11036.0	10873.9	9976.1	9106.0	9001.6	9157.2	9750.0	10466.6	10496.4	9430.2
50°	12454.1	12601.3	12360.3	12008.5	11362.2	11142.7	11085.1	11375.0	12466.9	12324.1	11315.3
52.5°	14452.3	14529.1	14077.0	13987.4	14134.6	13422.4	13364.8	13435.1	14411.8	13921.3	12727.1
55°	15708.5	15663.6	15495.2	16194.6	16776.9	15887.6	15815.1	15531.4	16026.2	15049.4	14085.6
57.5°	16105.1	16169.1	16561.5	17826.1	19203.7	18448.8	18316.6	17510.5	17190.5	16100.9	15335.2
60°	15928.1	16045.4	16892.0	18772.9	20683.7	20570.7	20457.7	19103.5	18026.5	16979.5	16211.7
62.5°	14667.7	14832.0	16186.1	18604.4	21184.9	21890.7	21749.9	20097.2	18583.2	17405.9	16365.3
65°	12292.1	12413.7	14358.6	17075.4	20472.5	22342.8	22291.6	20408.6	18670.5	17015.7	15313.9
67.5°	8762.7	9176.4	10978.4	14390.5	18365.6	21570.8	21658.3	20035.4	17849.6	15328.8	12682.4
70°	5508.4	5789.9	7082.2	10302.4	14723.2	18924.4	19212.2	18327.2	15490.9	11948.8	8489.7
72.5°	2627.3	2836.3	3757.6	6521.4	10392.0	14889.6	15117.7	15045.2	11978.6	7528.0	4380.3
75°	1170.8	1249.6	1793.5	3328.9	6709.0	10008.1	10598.8	10696.9	7485.3	3682.9	1704.0
77.5°	597.1	599.2	840.2	1612.2	3350.3	5971.2	6088.4	6431.8	4058.2	1622.9	592.8
80°	317.7	339.1	445.7	761.4	1738.0	2940.8	2925.8	3215.9	1799.9	795.4	198.3
82.5°	142.9	157.8	251.6	398.8	848.7	1115.3	1202.8	1315.8	772.0	507.5	87.5
85°	42.6	51.2	123.7	200.5	307.0	322.0	360.4	464.9	437.2	360.4	44.8
87.5°	6.4	6.4	51.2	55.4	44.8	57.6	59.7	66.1	140.8	132.2	23.5
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°	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4
2.5°	2601.7	2586.8	2533.5	2488.7	2450.3	2426.9	2399.1	2382.0	2373.6	2367.2	2369.3
5°	2612.4	2576.2	2484.4	2411.9	2356.5	2296.8	2256.2	2232.8	2222.1	2205.1	2205.1
7.5°	2672.1	2614.5	2486.6	2375.7	2279.7	2198.7	2121.9	2094.2	2075.0	2070.7	2066.4
10°	2757.4	2684.9	2510.0	2356.5	2220.0	2109.1	2000.3	1904.4	1829.8	1784.9	1778.5
12.5°	2864.0	2759.6	2546.3	2343.7	2168.8	1972.6	1684.7	1490.7	1360.6	1320.0	1326.4
15°	2962.1	2849.1	2582.5	2333.0	2075.0	1635.7	1309.4	1087.6	1021.5	1015.1	1017.2
17.5°	3079.4	2945.1	2625.2	2318.1	1817.0	1249.6	972.4	912.7	925.5	946.9	944.7
20°	3200.9	3047.4	2676.4	2228.6	1450.1	940.5	859.4	865.8	885.0	904.2	908.4
22.5°	3331.0	3164.7	2736.1	2013.1	1106.8	818.9	814.7	823.2	842.3	863.7	867.9
25°	3510.2	3311.9	2780.9	1731.6	838.1	757.1	765.6	780.5	797.6	821.1	825.3
27.5°	3740.5	3510.2	2804.3	1364.9	725.1	701.6	703.7	725.1	746.4	767.7	767.7
30°	4039.1	3746.9	2757.4	1032.2	669.6	648.3	639.7	652.5	680.3	701.6	703.7
32.5°	4305.7	3970.9	2633.7	789.0	629.1	599.2	577.9	580.0	590.7	603.5	605.7
35°	4572.2	4188.3	2422.6	663.2	586.4	552.4	520.3	503.3	494.8	488.4	494.8
37.5°	4913.4	4459.2	2141.1	603.5	550.2	507.5	462.8	426.5	396.6	377.4	381.7
40°	5352.7	4834.5	1808.4	565.2	516.0	464.9	405.2	358.3	307.0	290.1	281.5
42.5°	6077.8	5403.9	1458.6	533.1	482.0	420.1	345.5	281.5	234.6	217.5	221.8
45°	7223.0	6122.6	1123.8	499.0	447.8	371.0	290.1	221.8	183.4	174.8	179.1
47.5°	8741.4	7052.4	865.8	460.6	405.2	317.7	228.2	174.8	151.4	149.3	147.2
50°	10170.2	7918.2	722.9	418.0	354.0	264.4	187.6	147.2	132.2	130.1	130.1
52.5°	11462.5	8538.8	588.6	368.9	298.6	217.5	157.8	130.1	117.3	110.9	110.9
55°	12612.0	8944.0	477.7	309.2	234.6	172.7	136.5	117.3	102.3	93.9	91.7
57.5°	13479.9	8993.0	358.3	247.3	174.8	134.4	117.3	102.3	85.3	74.7	70.4
60°	13850.9	8568.6	264.4	187.6	130.1	106.6	93.9	83.2	64.0	53.3	51.2
62.5°	13477.8	7743.3	196.2	142.9	100.2	78.9	66.1	61.8	44.8	32.0	29.9
65°	12140.7	6551.2	155.7	108.7	74.7	57.6	42.6	40.5	27.8	15.0	12.8
67.5°	9726.6	5130.9	123.7	81.1	53.3	38.3	27.8	25.6	15.0	4.3	4.3
70°	6325.2	3279.9	100.2	59.7	34.1	25.6	17.1	12.8	8.5	2.1	0.0
72.5°	3128.4	1533.3	81.1	46.9	23.5	12.8	6.4	4.3	6.4	0.0	0.0
75°	1213.4	545.9	59.7	32.0	12.8	6.4	4.3	0.0	2.1	0.0	0.0
77.5°	403.1	181.2	36.2	17.1	8.5	4.3	0.0	0.0	0.0	0.0	0.0
80°	149.3	70.4	19.2	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	59.7	27.8	12.8	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.9	17.1	8.5	6.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.4	12.8	8.5	6.4	4.3	2.1	0.0	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)