

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: P456856

Luminaire Tested: **GALN-SA8A-827-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19548 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

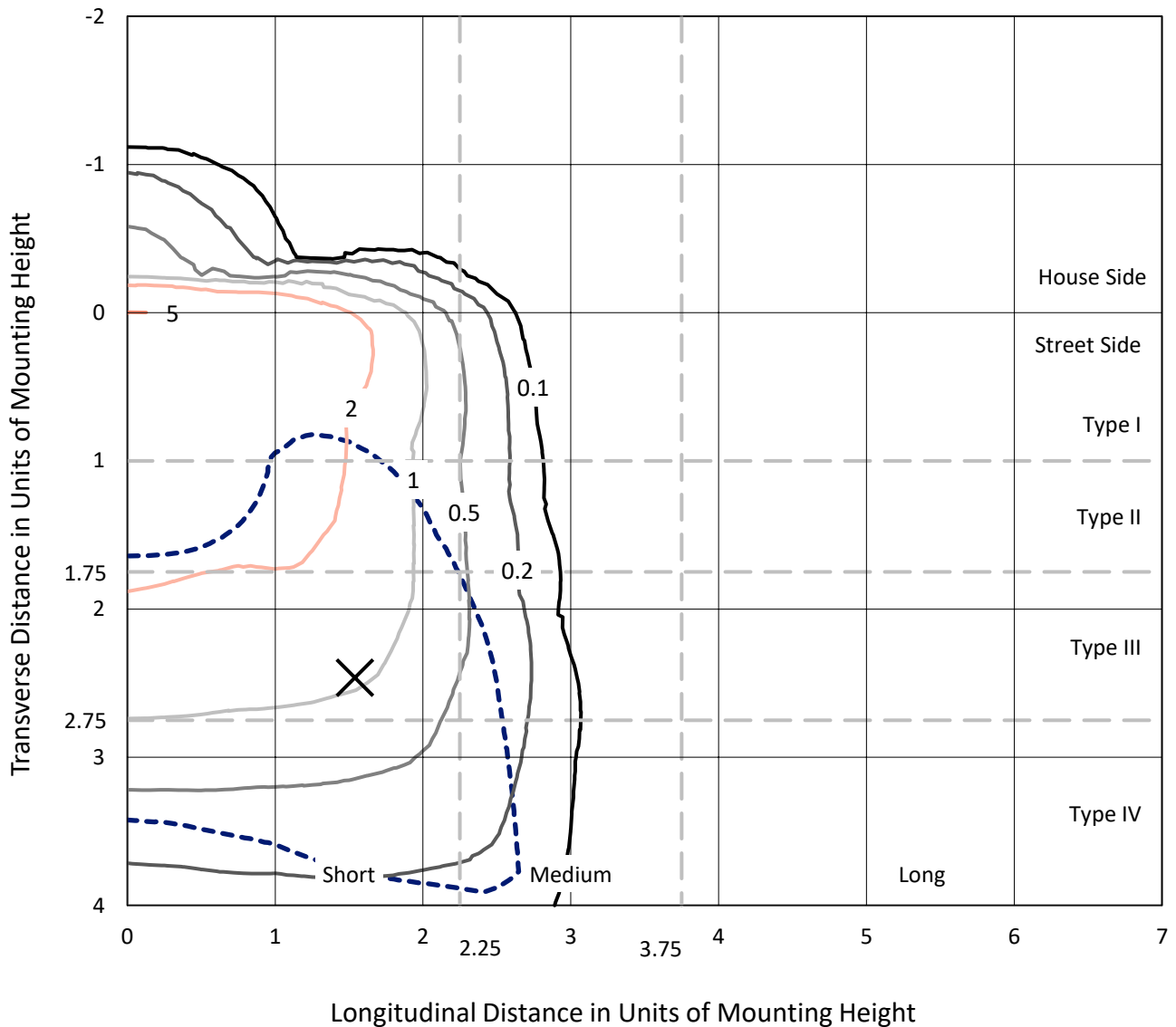
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

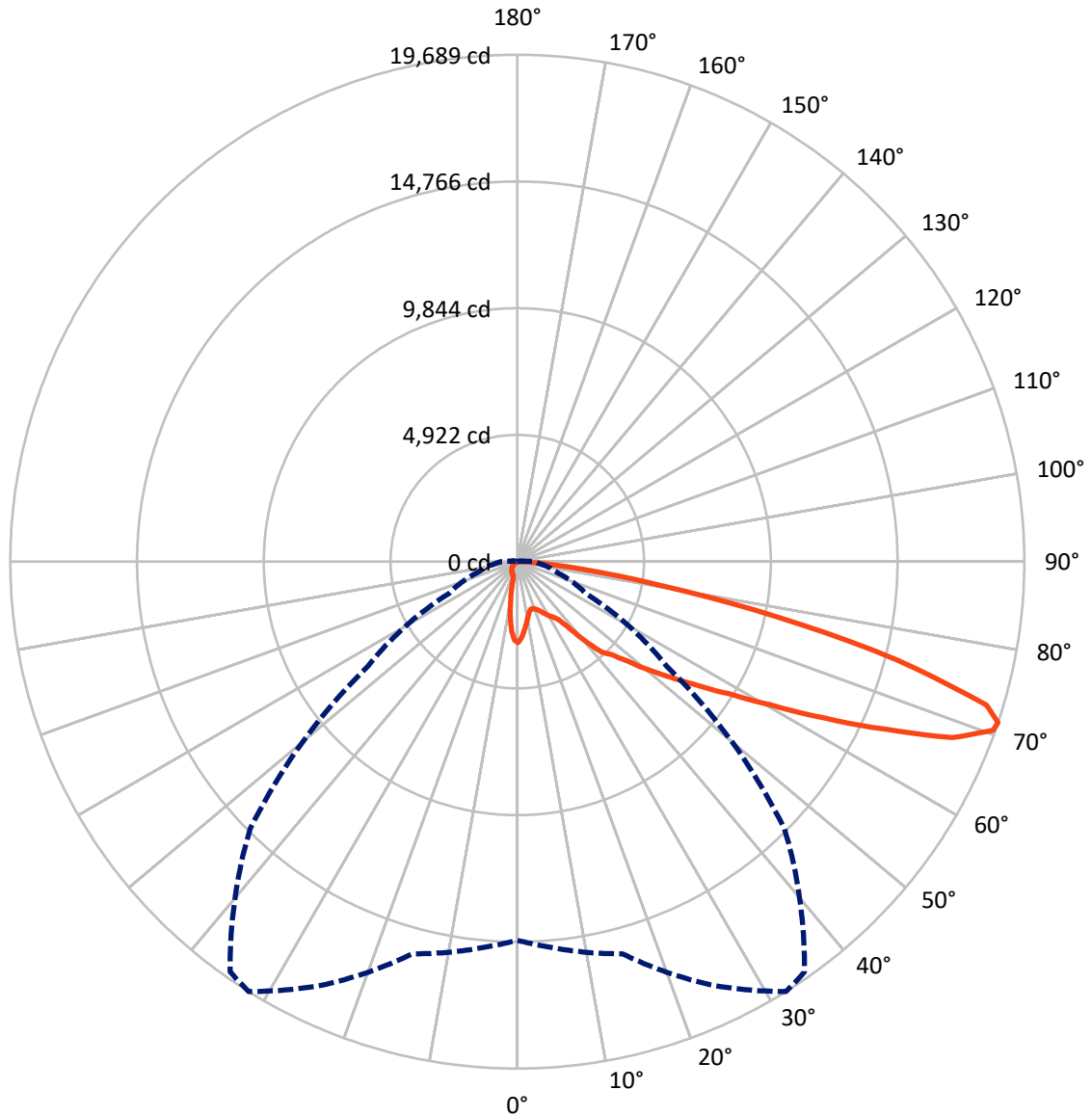
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1637.3	0.0	1637.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17910.6	0.0	17910.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	19548.0	0.0	19548.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.6	1.3
10°-20°	554.8	2.8
20°-30°	863.1	4.4
30°-40°	1437.9	7.4
40°-50°	2674.6	13.7
50°-60°	4294.3	22.0
60°-70°	5775.9	29.5
70°-80°	3427.0	17.5
80°-90°	264.9	1.4
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°	19548.0	100.0
0°-180°	19548.0	100.0



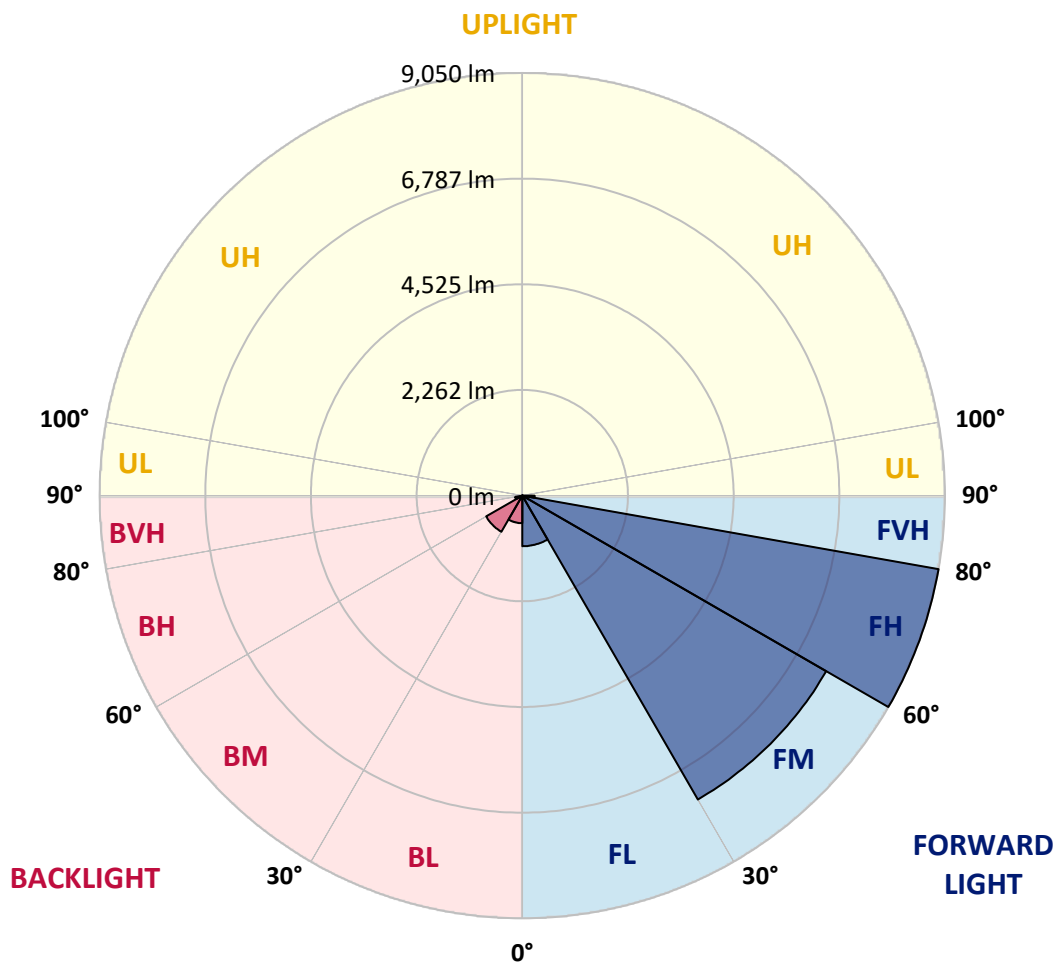
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1083.5	5.5			
FM	(30°-60°)	7513.5	38.4			
FH	(60°-80°)	9049.8	46.3			G4/12000
FVH	(80°-90°)	263.9	1.3			G3/500
BL	(0°-30°)	590.0	3.0	B2/1000		
BM	(30°-60°)	893.2	4.6	B1/1000		
BH	(60°-80°)	153.1	0.8	B1/500		G1/500
BVH	(80°-90°)	1.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3143.6	3143.6	3143.6	3143.6	3143.6	3143.6	3143.6	3143.6	3143.6	3143.6	3143.6
2.5°	2915.5	2945.6	2941.1	2951.6	2977.1	2987.6	3016.1	3047.6	3091.1	3121.1	3140.6
5°	2610.9	2633.4	2636.4	2689.0	2714.5	2743.0	2827.0	2918.5	3020.6	3101.6	3155.6
7.5°	2285.3	2297.3	2321.3	2390.4	2454.9	2483.4	2610.9	2770.0	2930.5	3082.1	3179.6
10°	2016.7	2030.2	2073.7	2147.3	2207.3	2244.8	2421.9	2621.4	2846.5	3071.6	3214.1
12.5°	1863.7	1871.2	1887.7	1953.7	2030.2	2070.7	2261.3	2489.4	2779.0	3076.1	3272.7
15°	1853.2	1850.2	1830.7	1857.7	1926.7	1968.7	2154.8	2399.4	2719.0	3091.1	3341.7
17.5°	1908.7	1901.2	1854.7	1854.7	1911.7	1946.2	2109.8	2351.3	2689.0	3125.6	3439.2
20°	1994.2	1982.2	1905.7	1899.7	1955.2	1991.2	2136.8	2354.3	2695.0	3190.1	3569.8
22.5°	2102.3	2088.7	1973.2	1976.2	2036.2	2072.2	2214.8	2408.4	2732.5	3269.7	3709.3
25°	2243.3	2228.3	2091.7	2085.7	2148.8	2180.3	2330.3	2504.4	2785.0	3368.7	3892.4
27.5°	2430.9	2399.4	2235.8	2226.8	2294.3	2334.8	2469.9	2633.4	2878.0	3505.3	4138.5
30°	2585.4	2550.9	2394.9	2370.8	2442.9	2474.4	2613.9	2807.5	3061.1	3743.8	4479.1
32.5°	2788.0	2737.0	2553.9	2490.9	2567.4	2607.9	2822.5	3131.6	3332.7	3995.9	4884.2
35°	3244.2	3212.6	2989.1	2768.5	2764.0	2815.0	3130.1	3458.7	3611.8	4389.1	5436.4
37.5°	3896.9	3874.4	3637.3	3341.7	3256.2	3232.2	3503.8	3818.9	4057.5	4929.3	6078.7
40°	4654.7	4602.1	4384.6	4134.0	4022.9	3952.4	3944.9	4354.6	4639.7	5663.0	6747.9
42.5°	5197.9	5101.8	4837.7	4819.7	4795.7	4722.2	4509.1	5137.8	5391.4	6452.3	7463.7
45°	5768.1	5622.5	5229.4	5161.8	5152.8	5148.3	5361.4	6065.2	6210.7	7307.6	8198.9
47.5°	6210.7	6095.2	5772.6	5742.6	5780.1	5882.1	6488.3	7049.5	7019.5	8069.9	8815.7
50°	6800.4	6713.4	6354.8	6411.8	6605.4	6771.9	7759.3	8122.4	7684.2	8670.1	9264.3
52.5°	7496.7	7336.1	7003.0	7157.6	7454.7	7732.3	9108.3	9061.7	8150.9	9121.8	9598.9
55°	8099.9	7985.9	7871.8	8032.4	8476.5	8823.2	10326.7	9765.5	8490.0	9484.9	9746.0
57.5°	9120.3	9093.3	8976.2	9139.8	9678.5	10038.6	11417.6	10311.7	8707.6	9674.0	9573.4
60°	10629.8	10586.3	10368.7	10577.3	11279.5	11845.2	12422.9	10802.4	8757.1	9600.4	9076.7
62.5°	12445.4	12296.9	12110.8	12418.4	13381.8	13630.9	13369.8	11093.5	8572.6	9015.2	7879.3
65°	14141.1	13988.0	13992.5	14640.7	15689.6	15859.2	14474.2	11049.9	8032.4	7549.2	5811.6
67.5°	15439.0	15413.5	15596.6	16861.5	18233.0	18116.0	15461.5	10398.7	6431.3	4893.2	3088.1
70°	15505.0	15554.6	16079.7	18215.0	19607.5	19421.4	15377.5	8452.5	4009.4	2250.8	1216.9
71°	14706.8	15039.9	15766.1	18173.0	19688.5	19447.0	14669.2	7079.5	2941.1	1569.6	877.8
72.5°	12532.5	12708.0	14277.6	17103.1	19047.8	18531.6	12873.1	4962.3	1883.2	960.3	504.2
75°	6902.5	7334.6	9561.4	13417.8	15234.9	14781.8	8389.5	2357.3	939.3	525.2	208.6
77.5°	3286.2	3202.1	4665.2	7979.9	10329.7	10305.7	4227.0	1047.4	547.7	355.6	105.0
80°	939.3	1056.4	1785.6	3793.4	5735.1	5798.1	1623.6	505.7	379.6	277.6	54.0
82.5°	283.6	289.6	655.7	1677.6	2852.5	2689.0	609.2	258.1	273.1	220.6	31.5
85°	49.5	61.5	193.6	591.2	1087.9	825.3	153.1	123.0	180.1	145.6	18.0
87.5°	3.0	4.5	64.5	67.5	96.0	55.5	27.0	18.0	39.0	39.0	10.5
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°	3143.6	3143.6	3143.6	3143.6	3143.6	3143.6	3143.6	3143.6	3143.6	3143.6	3143.6
2.5°	3154.1	3163.1	3157.1	3143.6	3121.1	3094.1	3058.1	3028.1	3002.6	2989.1	3005.6
5°	3173.6	3185.6	3155.6	3088.1	2986.1	2875.0	2749.0	2651.4	2574.9	2550.9	2541.9
7.5°	3203.6	3211.1	3130.1	2980.1	2764.0	2501.4	2271.8	2078.2	1928.2	1883.2	1817.1
10°	3242.7	3238.2	3085.1	2806.0	2426.4	2031.7	1676.1	1412.0	1212.4	1140.4	1134.4
12.5°	3302.7	3278.7	3028.1	2568.9	2024.2	1508.0	1068.4	835.8	709.8	667.7	658.7
15°	3377.7	3320.7	2938.1	2291.3	1550.1	973.8	658.7	588.2	571.7	568.7	565.7
17.5°	3466.2	3376.2	2819.5	1950.7	1089.4	631.7	550.7	549.2	550.7	547.7	546.2
20°	3586.3	3434.7	2678.5	1547.1	720.3	532.7	525.2	525.2	526.7	525.2	525.2
22.5°	3713.8	3503.8	2504.4	1180.9	543.2	505.7	504.2	507.2	510.2	508.7	508.7
25°	3871.4	3593.8	2274.8	808.8	486.2	483.2	484.7	490.7	496.7	498.2	496.7
27.5°	4099.5	3704.8	2028.7	556.7	445.7	448.7	463.7	478.7	487.7	489.2	489.2
30°	4356.1	3827.9	1707.6	451.7	412.6	412.6	430.7	459.2	478.7	481.7	483.2
32.5°	4686.2	3970.4	1352.0	406.6	381.1	378.1	394.6	429.2	465.2	475.7	475.7
35°	5094.3	4138.5	1005.4	378.1	358.6	351.1	360.1	388.6	435.2	465.2	468.2
37.5°	5573.0	4297.5	735.3	352.6	337.6	327.1	333.1	355.6	393.1	438.2	450.2
40°	6015.7	4438.6	549.2	331.6	316.6	309.1	313.6	324.1	355.6	397.6	405.1
42.5°	6498.8	4548.1	436.7	309.1	295.6	292.6	292.6	297.1	318.1	342.1	343.6
45°	6980.5	4587.1	366.1	282.1	273.1	276.1	274.6	271.6	280.6	277.6	277.6
47.5°	7324.1	4540.6	303.1	256.6	256.6	261.1	253.6	243.1	238.6	220.6	222.1
50°	7559.7	4371.1	249.1	226.6	238.6	244.6	229.6	213.1	196.6	177.1	172.6
52.5°	7657.2	4069.5	204.1	187.6	211.6	219.1	201.1	181.6	156.1	139.5	135.0
55°	7594.2	3697.3	169.6	153.1	178.6	187.6	169.6	147.1	118.5	100.5	97.5
57.5°	7316.6	3253.2	144.1	121.5	142.6	148.6	136.5	112.5	84.0	66.0	66.0
60°	6836.4	2794.0	117.0	96.0	106.5	115.5	103.5	81.0	57.0	40.5	37.5
62.5°	5862.6	2268.8	94.5	75.0	75.0	82.5	72.0	58.5	36.0	21.0	19.5
65°	4233.0	1556.1	75.0	55.5	54.0	54.0	45.0	39.0	21.0	9.0	6.0
67.5°	2300.3	877.8	60.0	42.0	37.5	36.0	28.5	22.5	9.0	1.5	0.0
70°	904.8	337.6	46.5	28.5	24.0	22.5	15.0	10.5	6.0	0.0	0.0
71°	613.7	232.6	40.5	24.0	19.5	16.5	12.0	9.0	4.5	0.0	0.0
72.5°	351.1	144.1	31.5	18.0	15.0	12.0	9.0	6.0	4.5	0.0	0.0
75°	153.1	73.5	19.5	13.5	10.5	7.5	6.0	4.5	1.5	0.0	0.0
77.5°	78.0	40.5	13.5	10.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0
80°	43.5	21.0	9.0	6.0	4.5	3.0	1.5	1.5	0.0	0.0	0.0
82.5°	24.0	12.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.0	7.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	3.0	0.0	0.0	0.0	0.0	1.5	1.5	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)