

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: P648184

Luminaire Tested: **GALN-SA9A-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648184
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-SA9A-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 23374.9 lumens
Efficiency: N/A
Efficacy: 85.3 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

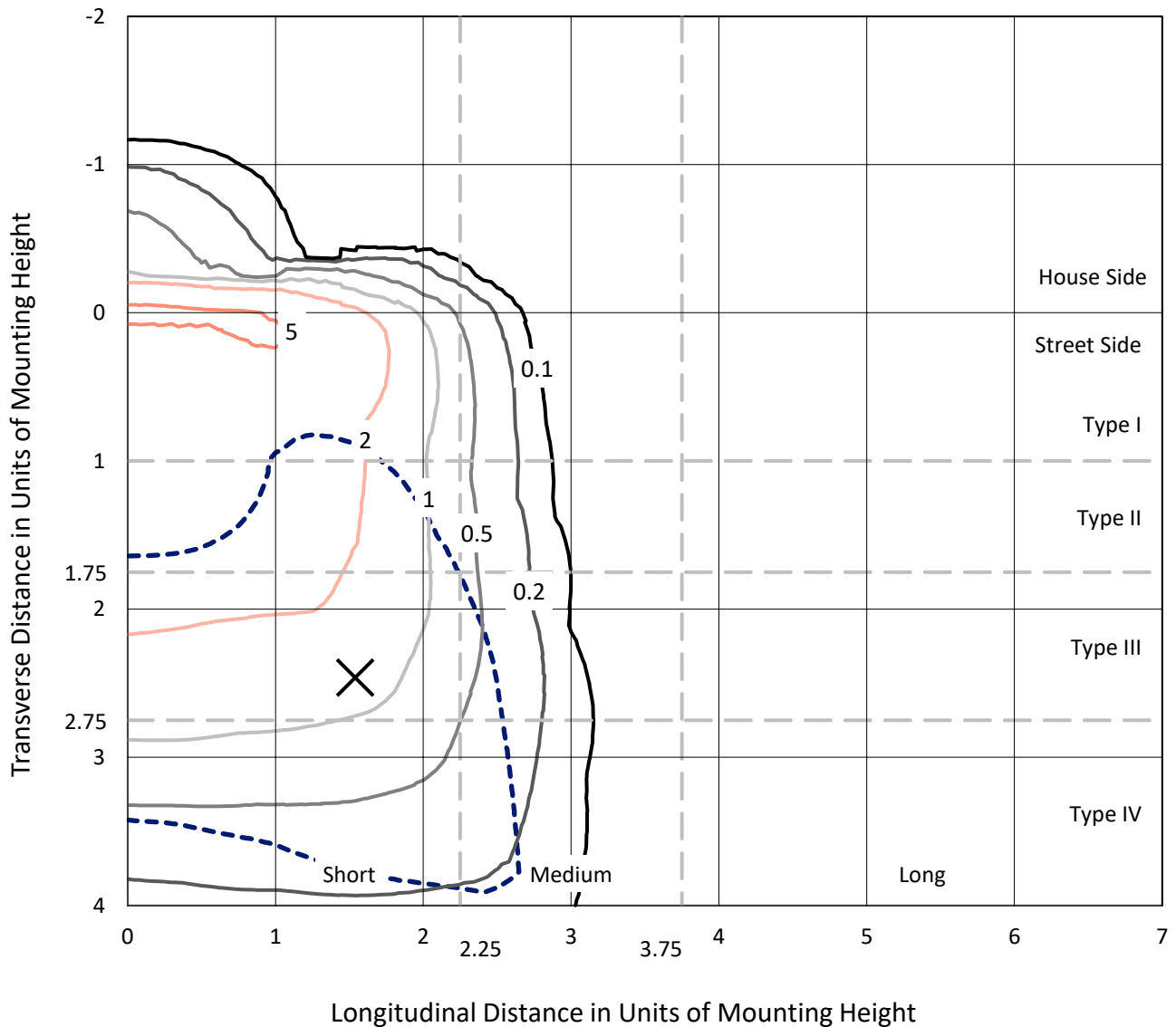
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

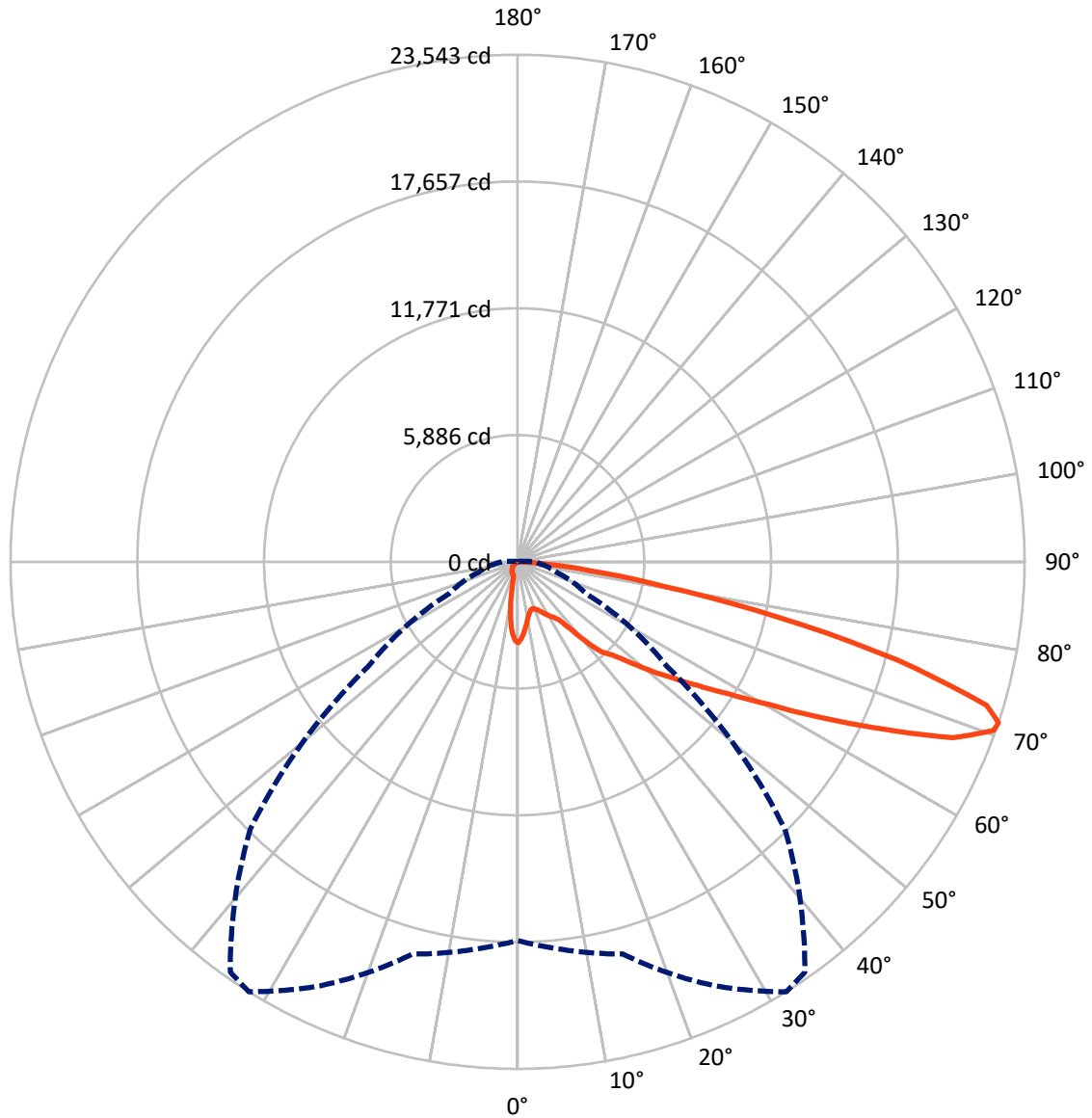
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1957.9	0.0	1957.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	21417.0	0.0	21417.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	23374.9	0.0	23374.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.7	1.3
10°-20°	663.4	2.8
20°-30°	1032.0	4.4
30°-40°	1719.3	7.4
40°-50°	3198.3	13.7
50°-60°	5134.9	22.0
60°-70°	6906.7	29.5
70°-80°	4097.8	17.5
80°-90°	316.8	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°	23374.9	100.0
0°-180°	23374.9	100.0

Coefficient of Utilization



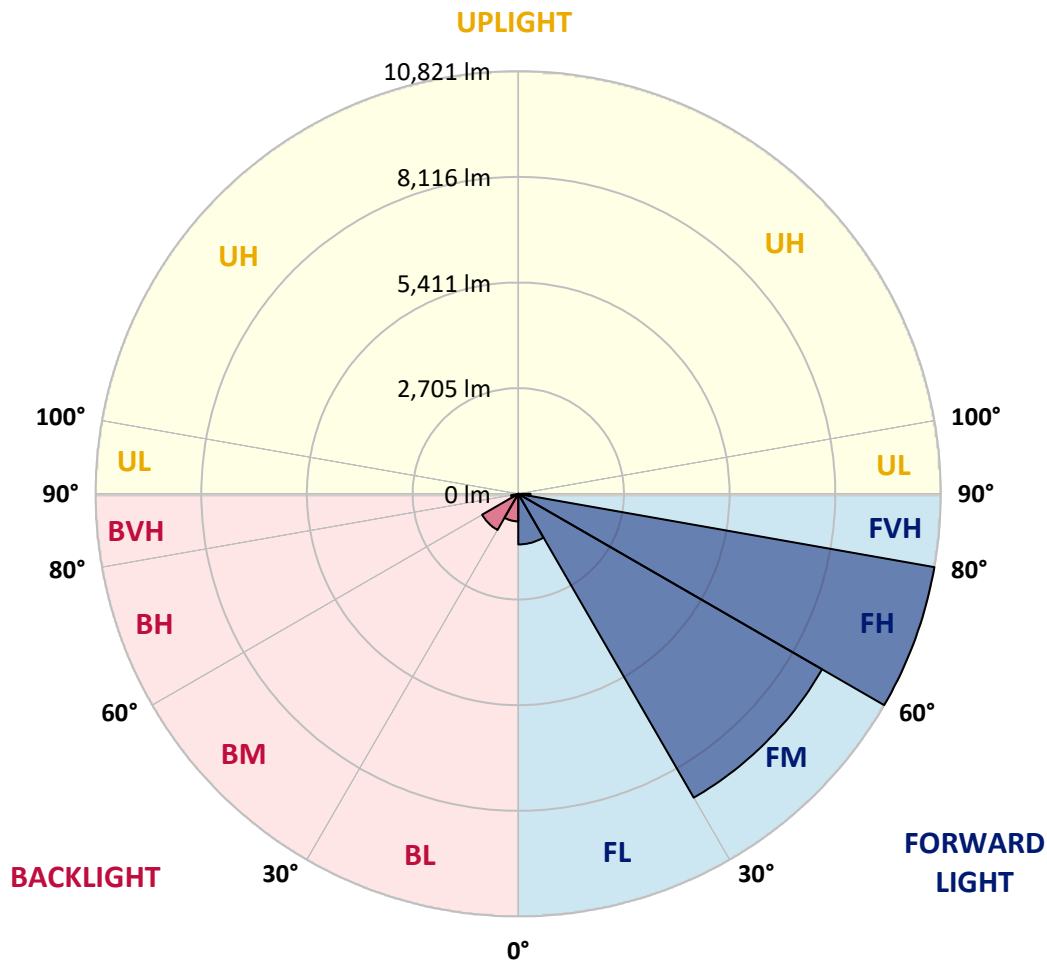
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.6	5.5			
FM (30°-60°)	8984.5	38.4			
FH (60°-80°)	10821.4	46.3			G4/12000
FVH (80°-90°)	315.5	1.3			G3/500
BL (0°-30°)	705.5	3.0	B2/1000		
BM (30°-60°)	1068.1	4.6	B2/2500		
BH (60°-80°)	183.1	0.8	B1/500		G1/500
BVH (80°-90°)	1.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3759.0	3759.0	3759.0	3759.0	3759.0	3759.0	3759.0	3759.0	3759.0	3759.0	3759.0
2.5°	3486.3	3522.2	3516.8	3529.4	3559.9	3572.4	3606.5	3644.2	3696.2	3732.2	3755.4
5°	3122.1	3149.0	3152.6	3215.4	3245.8	3280.0	3380.4	3489.9	3611.9	3708.8	3773.4
7.5°	2732.7	2747.1	2775.8	2858.3	2935.5	2969.5	3122.1	3312.2	3504.2	3685.5	3802.1
10°	2411.6	2427.7	2479.7	2567.6	2639.4	2684.3	2896.0	3134.7	3403.8	3672.9	3843.4
12.5°	2228.5	2237.5	2257.2	2336.2	2427.7	2476.2	2704.0	2976.7	3323.1	3678.3	3913.4
15°	2216.0	2212.4	2189.0	2221.4	2303.9	2354.1	2576.6	2869.1	3251.3	3696.2	3995.9
17.5°	2282.4	2273.4	2217.8	2217.8	2286.0	2327.2	2522.7	2811.7	3215.4	3737.5	4112.6
20°	2384.6	2370.3	2278.8	2271.6	2338.0	2381.0	2555.1	2815.3	3222.6	3814.7	4268.6
22.5°	2513.8	2497.7	2359.5	2363.1	2434.9	2478.0	2648.3	2879.9	3267.4	3909.8	4435.5
25°	2682.5	2664.5	2501.2	2494.1	2569.4	2607.1	2786.5	2994.7	3330.2	4028.2	4654.4
27.5°	2906.7	2869.1	2673.5	2662.7	2743.5	2791.9	2953.4	3149.0	3441.4	4191.5	4948.6
30°	3091.6	3050.3	2863.7	2835.0	2921.1	2958.8	3125.7	3357.1	3660.4	4476.8	5356.0
32.5°	3333.8	3272.8	3053.9	2978.5	3070.1	3118.5	3375.0	3744.7	3985.2	4778.2	5840.4
35°	3879.3	3841.6	3574.2	3310.4	3305.1	3366.1	3742.9	4135.9	4318.9	5248.3	6500.7
37.5°	4659.8	4632.9	4349.4	3995.9	3893.6	3864.9	4189.7	4566.5	4851.8	5894.3	7268.7
40°	5565.9	5503.1	5243.0	4943.3	4810.5	4726.2	4717.2	5207.0	5547.9	6771.7	8069.0
42.5°	6215.5	6100.6	5784.8	5763.3	5734.5	5646.7	5391.9	6143.7	6446.9	7715.4	8924.8
45°	6897.3	6723.2	6253.1	6172.4	6161.6	6156.3	6411.0	7252.5	7426.6	8738.2	9804.0
47.5°	7426.6	7288.4	6902.7	6866.8	6911.6	7033.6	7758.5	8429.6	8393.7	9649.7	10541.5
50°	8131.8	8027.7	7598.9	7667.1	7898.5	8097.6	9278.3	9712.5	9188.6	10367.5	11078.0
52.5°	8964.3	8772.3	8374.0	8558.8	8914.1	9246.0	10891.4	10835.8	9746.6	10907.5	11478.1
55°	9685.6	9549.2	9412.9	9604.8	10136.0	10550.5	12348.4	11677.3	10152.1	11341.8	11653.9
57.5°	10905.7	10873.4	10733.4	10929.0	11573.2	12003.9	13652.8	12330.4	10412.3	11567.8	11447.6
60°	12710.8	12658.8	12398.6	12648.0	13487.7	14164.2	14855.0	12917.2	10471.5	11479.9	10853.7
62.5°	14881.9	14704.3	14481.7	14849.6	16001.5	16299.4	15987.1	13265.2	10250.8	10780.1	9421.8
65°	16909.4	16726.4	16731.8	17506.9	18761.1	18963.9	17307.7	13213.2	9604.8	9027.1	6949.3
67.5°	18461.5	18431.0	18649.9	20162.5	21802.5	21662.6	18488.4	12434.4	7690.3	5851.2	3692.6
70°	18540.4	18599.7	19227.7	21780.9	23446.1	23223.5	18388.0	10107.3	4794.4	2691.4	1455.2
71°	17585.9	17984.3	18852.7	21730.7	23542.9	23254.1	17541.0	8465.5	3516.8	1876.9	1049.7
72.5°	14986.0	15195.9	17072.7	20451.4	22776.8	22159.5	15393.2	5933.7	2251.8	1148.3	602.9
75°	8253.8	8770.5	11433.3	16044.6	18217.5	17675.6	10031.9	2818.8	1123.2	628.0	249.4
77.5°	3929.5	3829.0	5578.5	9542.0	12351.9	12323.2	5054.5	1252.4	654.9	425.2	125.6
80°	1123.2	1263.2	2135.2	4536.0	6857.8	6933.2	1941.4	604.7	454.0	331.9	64.6
82.5°	339.1	346.3	784.1	2006.0	3411.0	3215.4	728.5	308.6	326.6	263.8	37.7
85°	59.2	73.6	231.5	707.0	1300.9	986.9	183.0	147.1	215.3	174.1	21.5
87.5°	3.6	5.4	77.1	80.7	114.9	66.4	32.3	21.5	46.7	46.7	12.5
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°	3759.0	3759.0	3759.0	3759.0	3759.0	3759.0	3759.0	3759.0	3759.0	3759.0	3759.0
2.5°	3771.6	3782.4	3775.2	3759.0	3732.2	3699.8	3656.8	3620.9	3590.4	3574.2	3594.0
5°	3795.0	3809.3	3773.4	3692.6	3570.6	3437.8	3287.1	3170.5	3079.0	3050.3	3039.5
7.5°	3830.8	3839.8	3742.9	3563.4	3305.1	2991.1	2716.5	2485.1	2305.7	2251.8	2172.9
10°	3877.5	3872.1	3689.1	3355.3	2901.4	2429.5	2004.2	1688.5	1449.8	1363.7	1356.5
12.5°	3949.2	3920.6	3620.9	3071.9	2420.5	1803.2	1277.5	999.4	848.7	798.4	787.7
15°	4038.9	3970.7	3513.2	2739.9	1853.5	1164.5	787.7	703.4	683.6	680.0	676.4
17.5°	4144.8	4037.1	3371.5	2332.6	1302.7	755.4	658.5	656.7	658.5	654.9	653.1
20°	4288.3	4107.1	3202.8	1849.9	861.3	637.0	628.0	628.0	629.8	628.0	628.0
22.5°	4440.9	4189.7	2994.7	1412.1	649.5	604.7	602.9	606.4	610.0	608.2	608.2
25°	4629.3	4297.3	2720.1	967.2	581.4	577.8	579.6	586.7	593.9	595.7	593.9
27.5°	4902.0	4430.1	2425.9	665.7	532.9	536.5	554.4	572.4	583.2	585.0	585.0
30°	5208.8	4577.3	2041.9	540.1	493.4	493.4	515.0	549.0	572.4	576.0	577.8
32.5°	5603.6	4747.7	1616.7	486.2	455.8	452.2	471.9	513.2	556.2	568.8	568.8
35°	6091.7	4948.6	1202.1	452.2	428.8	419.8	430.6	464.7	520.4	556.2	559.8
37.5°	6664.0	5138.8	879.2	421.6	403.7	391.2	398.3	425.2	470.1	523.9	538.3
40°	7193.3	5307.5	656.7	396.5	378.6	369.7	375.0	387.6	425.2	475.5	484.4
42.5°	7771.1	5438.5	522.1	369.7	353.4	349.9	349.9	355.2	380.4	409.1	410.9
45°	8347.1	5485.1	437.8	337.3	326.6	330.1	328.4	324.8	335.5	331.9	331.9
47.5°	8757.9	5429.6	362.5	306.9	306.9	312.2	303.3	290.6	285.3	263.8	265.6
50°	9039.7	5226.8	297.9	270.9	285.3	292.5	274.5	254.8	235.1	211.7	206.3
52.5°	9156.3	4866.1	244.1	224.3	253.0	262.0	240.5	217.1	186.6	166.9	161.5
55°	9080.9	4421.1	202.7	183.0	213.5	224.3	202.7	175.9	141.7	120.2	116.7
57.5°	8749.0	3890.0	172.3	145.3	170.5	177.7	163.3	134.6	100.5	78.9	78.9
60°	8174.8	3341.0	139.9	114.9	127.4	138.2	123.8	96.9	68.2	48.5	44.9
62.5°	7010.3	2712.9	113.1	89.7	89.7	98.7	86.1	70.0	43.1	25.1	23.3
65°	5061.7	1860.7	89.7	66.4	64.6	64.6	53.8	46.7	25.1	10.7	7.2
67.5°	2750.7	1049.7	71.8	50.3	44.9	43.1	34.1	26.9	10.7	1.8	0.0
70°	1081.9	403.7	55.6	34.1	28.7	26.9	17.9	12.5	7.2	0.0	0.0
71°	733.9	278.1	48.5	28.7	23.3	19.7	14.3	10.7	5.4	0.0	0.0
72.5°	419.8	172.3	37.7	21.5	17.9	14.3	10.7	7.2	5.4	0.0	0.0
75°	183.0	87.9	23.3	16.1	12.5	9.0	7.2	5.4	1.8	0.0	0.0
77.5°	93.3	48.5	16.1	12.5	7.2	5.4	3.6	1.8	0.0	0.0	0.0
80°	52.1	25.1	10.7	7.2	5.4	3.6	1.8	1.8	0.0	0.0	0.0
82.5°	28.7	14.3	5.4	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.9	9.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	3.6	0.0	0.0	0.0	0.0	1.8	1.8	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)