

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: P647524

Luminaire Tested: **GALN-SA6D-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647524
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-SA6D-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA 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: 25864.9 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

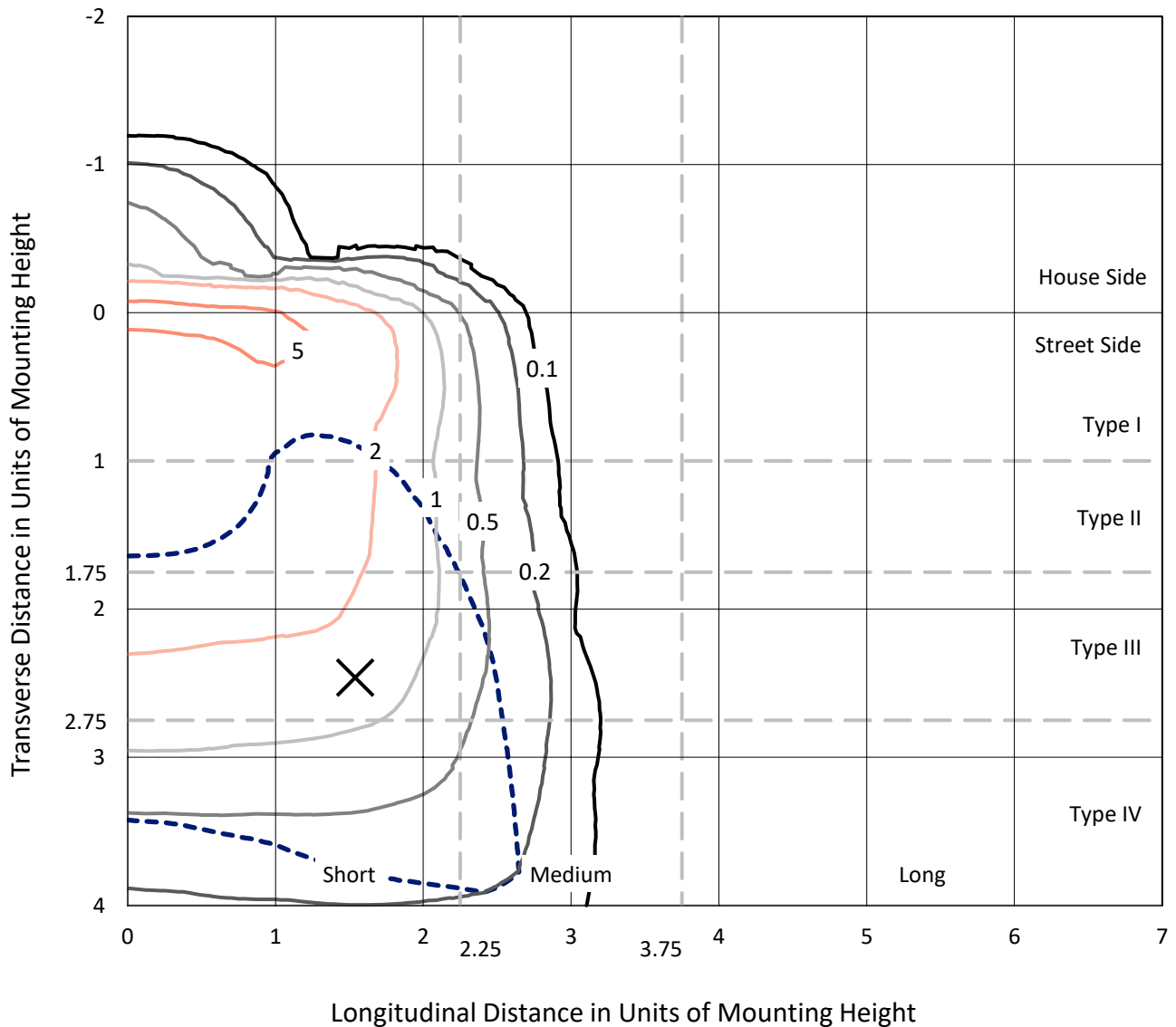
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

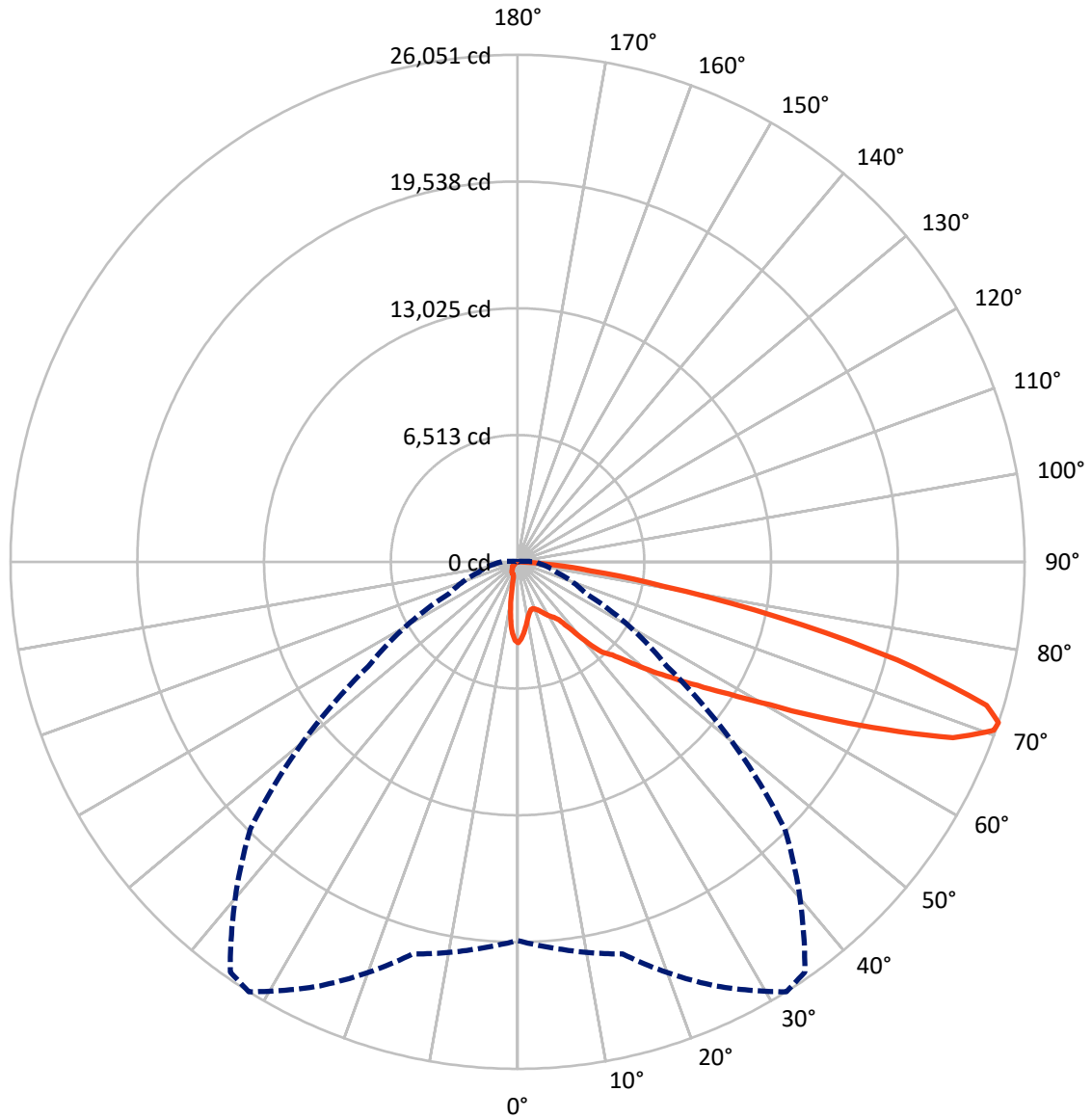
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	2166.5	0.0	2166.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	23698.4	0.0	23698.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	25864.9	0.0	25864.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.2	1.3
10°-20°	734.1	2.8
20°-30°	1141.9	4.4
30°-40°	1902.5	7.4
40°-50°	3538.9	13.7
50°-60°	5681.9	22.0
60°-70°	7642.4	29.5
70°-80°	4534.4	17.5
80°-90°	350.5	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°	25864.9	100.0
0°-180°	25864.9	100.0

Coefficient of Utilization



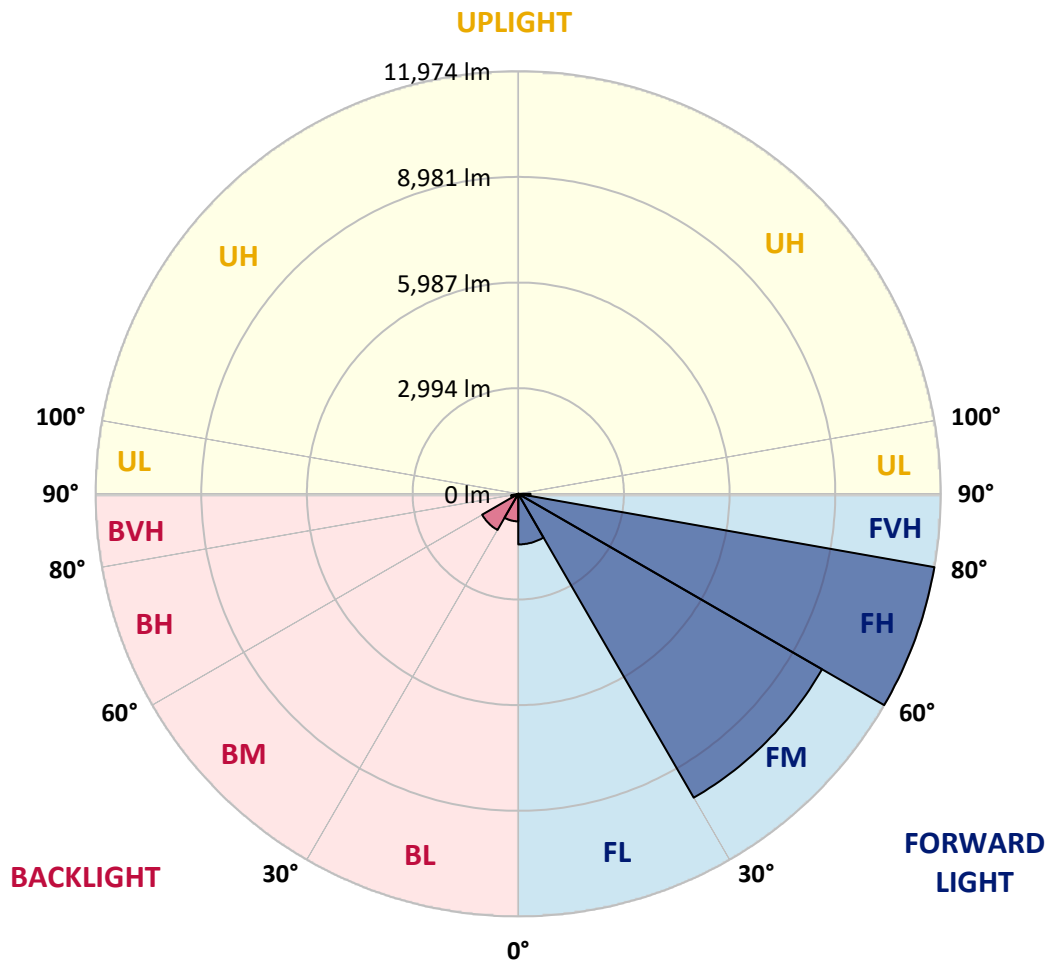
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1433.6	5.5			
FM (30°-60°)	9941.5	38.4			
FH (60°-80°)	11974.2	46.3			G4/12000
FVH (80°-90°)	349.1	1.3			G3/500
BL (0°-30°)	780.6	3.0	B2/1000		
BM (30°-60°)	1181.9	4.6	B2/2500		
BH (60°-80°)	202.6	0.8	B1/500		G1/500
BVH (80°-90°)	1.4	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°	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5
2.5°	3857.7	3897.4	3891.4	3905.4	3939.1	3953.0	3990.7	4032.4	4090.0	4129.7	4155.5
5°	3454.7	3484.4	3488.4	3557.9	3591.6	3629.4	3740.5	3861.7	3996.7	4103.9	4175.3
7.5°	3023.8	3039.7	3071.5	3162.8	3248.2	3285.9	3454.7	3665.1	3877.6	4078.1	4207.1
10°	2668.4	2686.3	2743.9	2841.1	2920.6	2970.2	3204.5	3468.5	3766.4	4064.2	4252.8
12.5°	2465.9	2475.8	2497.7	2585.0	2686.3	2739.9	2992.1	3293.8	3677.0	4070.1	4330.2
15°	2452.0	2448.0	2422.2	2458.0	2549.3	2604.9	2851.1	3174.7	3597.6	4090.0	4421.5
17.5°	2525.5	2515.5	2454.0	2454.0	2529.4	2575.1	2791.5	3111.2	3557.9	4135.6	4550.6
20°	2638.6	2622.7	2521.5	2513.6	2587.0	2634.6	2827.3	3115.2	3565.9	4221.0	4723.4
22.5°	2781.6	2763.7	2610.8	2614.8	2694.2	2741.9	2930.5	3186.6	3615.4	4326.2	4908.0
25°	2968.2	2948.4	2767.7	2759.8	2843.2	2884.8	3083.4	3313.7	3685.0	4457.3	5150.2
27.5°	3216.4	3174.7	2958.3	2946.4	3035.7	3089.3	3268.0	3484.4	3808.0	4637.9	5475.8
30°	3420.9	3375.2	3168.7	3137.0	3232.3	3274.0	3458.6	3714.7	4050.3	4953.6	5926.5
32.5°	3688.9	3621.5	3379.2	3295.8	3397.0	3450.7	3734.6	4143.6	4409.6	5287.2	6462.6
35°	4292.5	4250.8	3954.9	3663.1	3657.2	3724.7	4141.6	4576.4	4779.0	5807.4	7193.2
37.5°	5156.1	5126.4	4812.7	4421.5	4308.4	4276.6	4636.0	5052.9	5368.6	6522.2	8043.0
40°	6158.8	6089.3	5801.4	5469.9	5322.9	5229.6	5219.7	5761.7	6139.0	7493.0	8928.5
42.5°	6877.6	6750.5	6401.0	6377.2	6345.4	6248.1	5966.2	6798.1	7133.7	8537.4	9875.5
45°	7632.0	7439.4	6919.2	6829.9	6818.0	6812.0	7093.9	8025.1	8217.7	9669.0	10848.4
47.5°	8217.7	8064.8	7637.9	7598.2	7647.9	7782.9	8585.0	9327.6	9287.9	10677.6	11664.4
50°	8997.9	8882.8	8408.2	8483.7	8739.8	8960.3	10266.6	10747.1	10167.4	11471.8	12258.0
52.5°	9919.2	9706.8	9266.0	9470.5	9863.6	10230.9	12051.5	11990.0	10784.8	12069.4	12700.8
55°	10717.3	10566.4	10415.5	10628.0	11215.7	11674.3	13663.7	12921.1	11233.5	12549.9	12895.4
57.5°	12067.4	12031.7	11876.9	12093.2	12806.0	13282.5	15107.1	13643.9	11521.5	12800.0	12667.1
60°	14064.8	14007.2	13719.3	13995.3	14924.4	15673.0	16437.4	14293.1	11587.0	12702.8	12009.8
62.5°	16467.1	16270.6	16024.4	16431.4	17706.1	18035.6	17690.2	14678.3	11342.8	11928.5	10425.5
65°	18710.6	18508.2	18514.1	19371.8	20759.6	20984.0	19151.4	14620.7	10628.0	9988.7	7689.5
67.5°	20428.1	20394.3	20636.5	22310.3	24124.9	23970.1	20457.8	13759.0	8509.6	6474.5	4086.0
70°	20515.4	20580.9	21275.8	24101.1	25943.6	25697.4	20346.6	11183.9	5305.1	2978.1	1610.2
71°	19459.2	19899.9	20860.9	24045.5	26050.8	25731.1	19409.6	9367.3	3891.4	2076.8	1161.5
72.5°	16582.3	16814.6	18891.4	22629.9	25203.0	24520.0	17033.0	6565.8	2491.7	1270.7	667.1
75°	9133.0	9704.7	12651.2	17753.7	20158.0	19558.5	11100.5	3119.1	1242.9	694.9	276.0
77.5°	4348.1	4236.9	6172.7	10558.5	13667.7	13635.9	5593.0	1385.8	724.7	470.6	139.0
80°	1242.9	1397.7	2362.6	5019.2	7588.3	7671.7	2148.2	669.1	502.3	367.3	71.5
82.5°	375.2	383.2	867.6	2219.7	3774.3	3557.9	806.1	341.5	361.4	291.8	41.7
85°	65.5	81.4	256.1	782.3	1439.5	1092.0	202.5	162.8	238.3	192.6	23.8
87.5°	4.0	6.0	85.3	89.3	127.1	73.4	35.7	23.8	51.6	51.6	13.9
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°	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5
2.5°	4173.4	4185.3	4177.3	4159.5	4129.7	4093.9	4046.3	4006.6	3972.9	3954.9	3976.8
5°	4199.2	4215.0	4175.3	4086.0	3951.0	3804.0	3637.3	3508.2	3407.0	3375.2	3363.3
7.5°	4238.8	4248.8	4141.6	3943.0	3657.2	3309.7	3005.9	2749.8	2551.2	2491.7	2404.4
10°	4290.5	4284.6	4082.0	3712.8	3210.5	2688.3	2217.7	1868.3	1604.2	1508.9	1501.0
12.5°	4369.9	4338.1	4006.6	3399.1	2678.3	1995.3	1413.6	1105.9	939.1	883.5	871.6
15°	4469.2	4393.7	3887.4	3031.8	2050.9	1288.5	871.6	778.3	756.5	752.5	748.5
17.5°	4586.3	4467.2	3730.6	2581.1	1441.4	835.9	728.7	726.7	728.7	724.7	722.7
20°	4745.1	4544.6	3544.0	2047.0	953.0	704.9	694.9	694.9	696.9	694.9	694.9
22.5°	4914.0	4636.0	3313.7	1562.6	718.7	669.1	667.1	671.1	675.0	673.1	673.1
25°	5122.4	4755.1	3009.9	1070.1	643.3	639.3	641.3	649.3	657.2	659.1	657.2
27.5°	5424.2	4902.0	2684.3	736.6	589.7	593.7	613.5	633.4	645.3	647.2	647.2
30°	5763.7	5064.8	2259.4	597.6	546.0	546.0	569.8	607.5	633.4	637.3	639.3
32.5°	6200.5	5253.5	1788.8	538.1	504.3	500.3	522.2	567.8	615.5	629.4	629.4
35°	6740.5	5475.8	1330.2	500.3	474.5	464.6	476.5	514.2	575.7	615.5	619.4
37.5°	7373.9	5686.3	972.9	466.6	446.7	432.8	440.8	470.6	520.1	579.7	595.6
40°	7959.6	5872.9	726.7	438.8	418.9	409.0	415.0	428.8	470.6	526.2	536.0
42.5°	8598.9	6017.8	577.8	409.0	391.1	387.2	387.2	393.1	420.9	452.7	454.7
45°	9236.2	6069.4	484.4	373.3	361.4	365.3	363.3	359.4	371.3	367.3	367.3
47.5°	9690.9	6007.9	401.1	339.5	339.5	345.5	335.5	321.7	315.7	291.8	293.9
50°	10002.6	5783.6	329.6	299.8	315.7	323.6	303.8	282.0	260.1	234.3	228.3
52.5°	10131.6	5384.5	270.1	248.2	279.9	289.9	266.1	240.2	206.5	184.6	178.7
55°	10048.2	4892.1	224.3	202.5	236.2	248.2	224.3	194.6	156.8	133.0	129.0
57.5°	9680.9	4304.4	190.6	160.8	188.6	196.5	180.6	148.9	111.2	87.4	87.4
60°	9045.6	3696.9	154.9	127.1	140.9	152.8	137.0	107.2	75.5	53.6	49.6
62.5°	7757.1	3001.9	125.0	99.3	99.3	109.2	95.3	77.4	47.7	27.8	25.8
65°	5600.9	2058.9	99.3	73.4	71.5	71.5	59.6	51.6	27.8	11.9	7.9
67.5°	3043.7	1161.5	79.4	55.6	49.6	47.7	37.7	29.8	11.9	2.0	0.0
70°	1197.2	446.7	61.5	37.7	31.8	29.8	19.9	13.9	7.9	0.0	0.0
71°	812.0	307.7	53.6	31.8	25.8	21.8	15.9	11.9	6.0	0.0	0.0
72.5°	464.6	190.6	41.7	23.8	19.9	15.9	11.9	7.9	6.0	0.0	0.0
75°	202.5	97.2	25.8	17.9	13.9	9.9	7.9	6.0	2.0	0.0	0.0
77.5°	103.3	53.6	17.9	13.9	7.9	6.0	4.0	2.0	0.0	0.0	0.0
80°	57.6	27.8	11.9	7.9	6.0	4.0	2.0	2.0	0.0	0.0	0.0
82.5°	31.8	15.9	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.9	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	4.0	0.0	0.0	0.0	0.0	2.0	2.0	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)