

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: P451880

Luminaire Tested: **GALN-SA2D-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12869 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

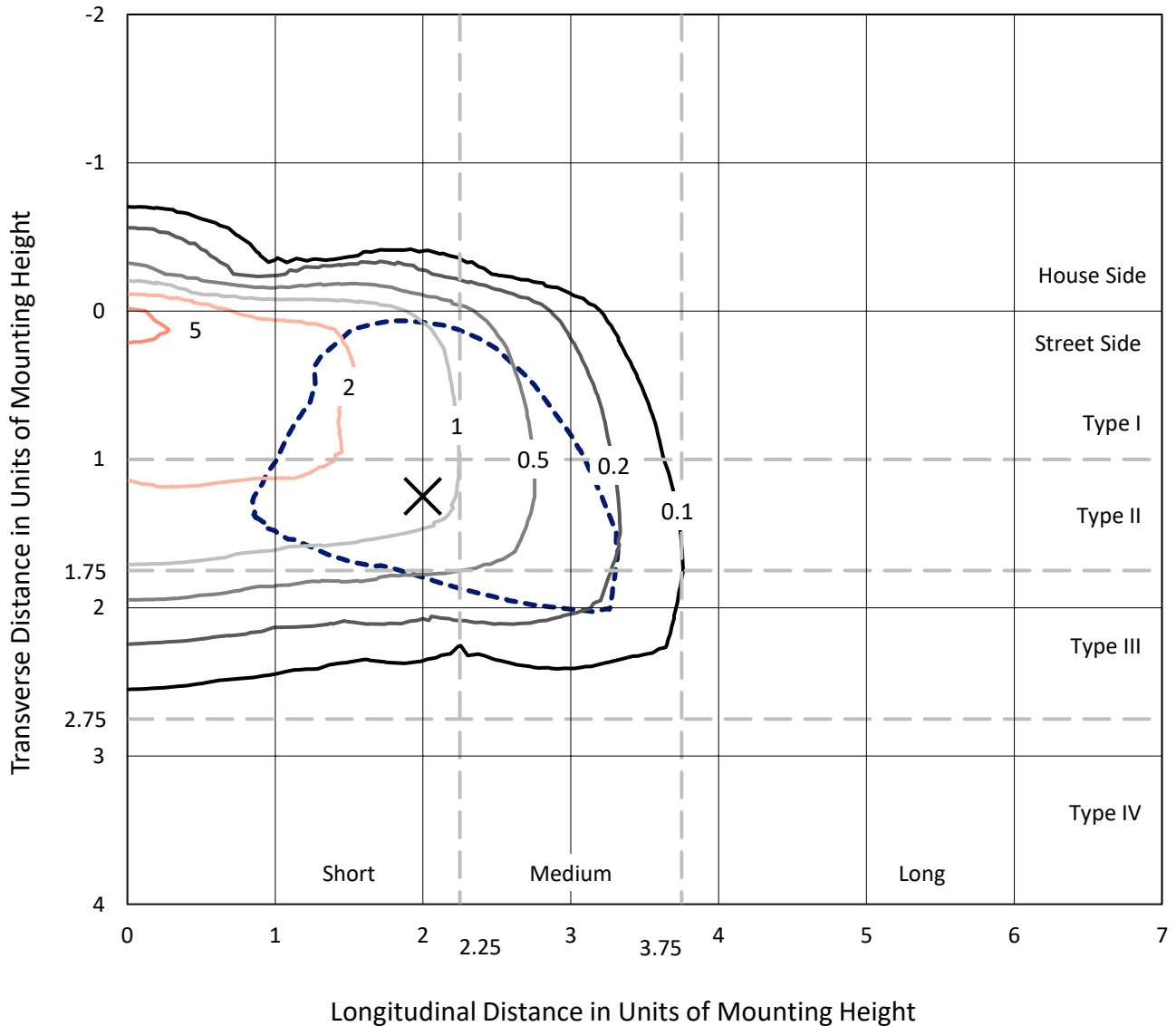
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

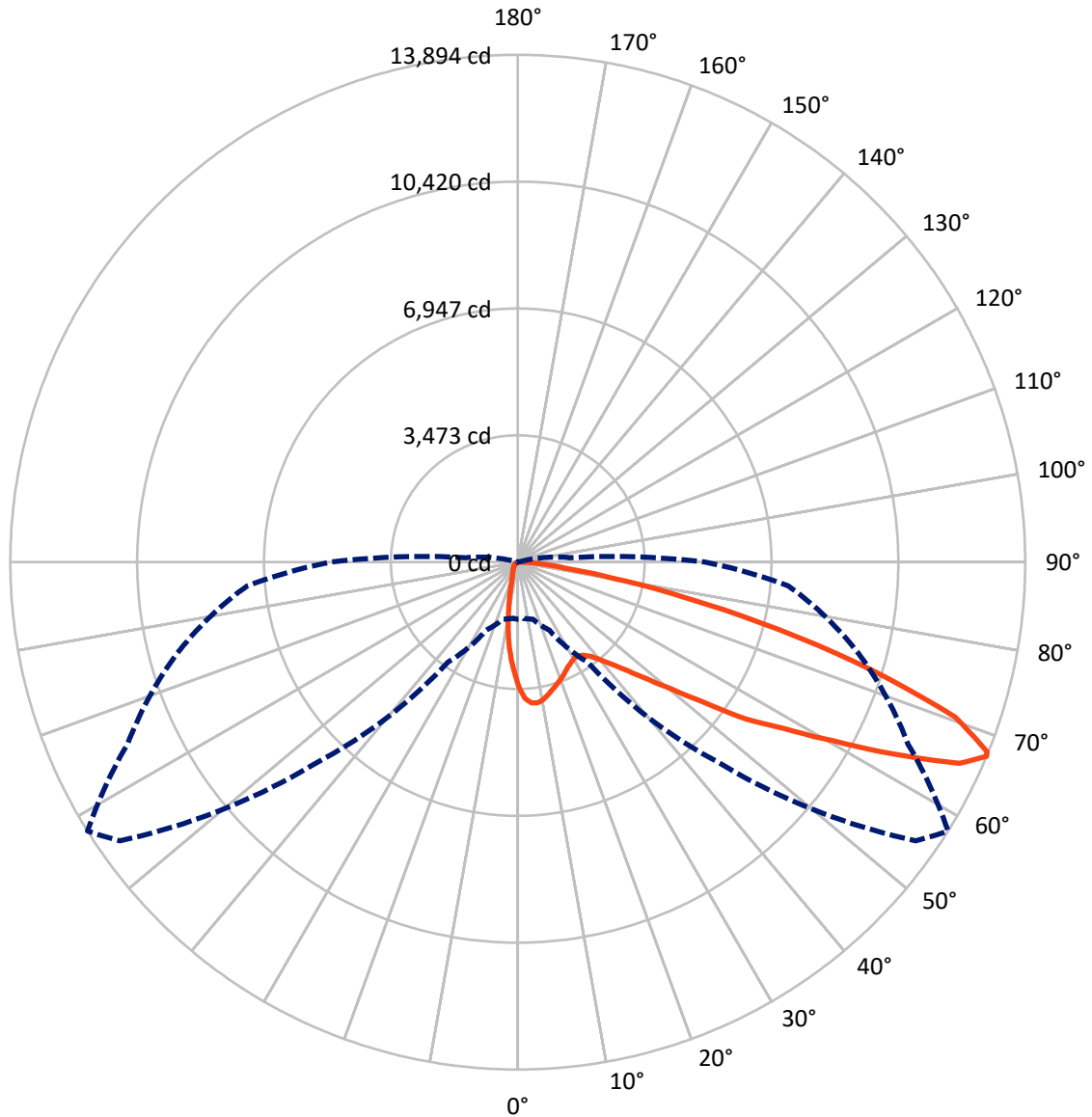
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	928.7	0.0	928.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	11940.3	0.0	11940.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	12869.0	0.0	12869.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	2.2
10°-20°	597.9	4.6
20°-30°	810.2	6.3
30°-40°	1123.7	8.7
40°-50°	1792.1	13.9
50°-60°	3097.8	24.1
60°-70°	3538.7	27.5
70°-80°	1475.3	11.5
80°-90°	156.4	1.2
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°	12869.0	100.0
0°-180°	12869.0	100.0



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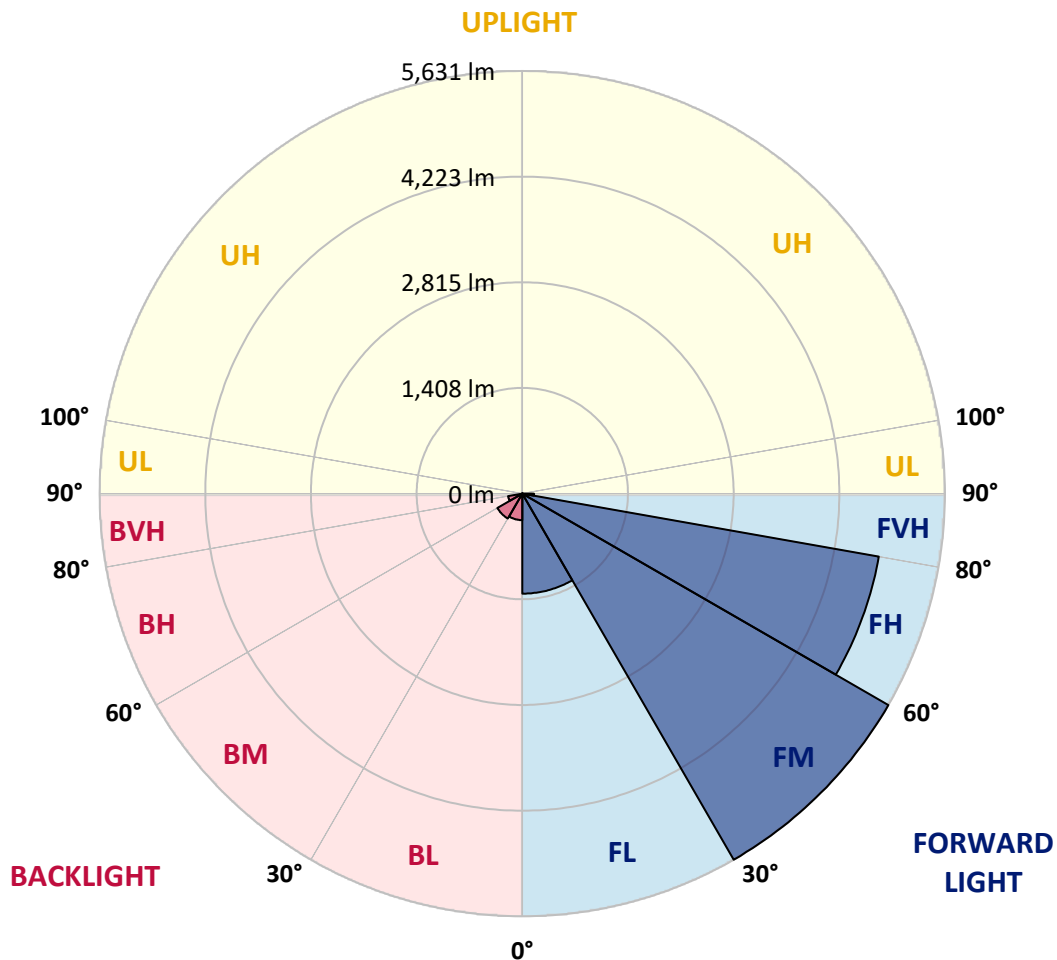
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.3	10.4			
FM (30°-60°)	5630.7	43.8			
FH (60°-80°)	4822.0	37.5			G2/5000
FVH (80°-90°)	155.3	1.2			G2/225
BL (0°-30°)	352.6	2.7	B1/500		
BM (30°-60°)	382.9	3.0	B1/1000		
BH (60°-80°)	192.0	1.5	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5
2.5°	3959.2	3965.3	3942.9	3924.8	3878.4	3828.5	3762.3	3727.1	3666.9	3562.8	3447.6
5°	4052.1	4059.9	4056.4	4052.1	4034.1	3985.9	3901.6	3870.7	3782.1	3612.7	3404.6
7.5°	3845.7	3874.1	3877.6	3911.1	3942.9	3947.2	3915.4	3892.2	3810.5	3611.8	3328.0
10°	3572.3	3591.2	3618.7	3657.4	3733.9	3797.6	3828.5	3825.1	3777.8	3585.2	3238.6
12.5°	3296.2	3306.5	3348.7	3414.9	3508.6	3617.0	3699.5	3715.9	3716.7	3553.3	3163.8
15°	3058.9	3054.6	3087.2	3163.8	3295.4	3431.2	3579.1	3604.9	3646.2	3522.4	3094.1
17.5°	2855.9	2878.3	2883.4	2967.7	3089.0	3265.3	3453.6	3499.2	3581.7	3495.7	3036.5
20°	2730.4	2742.4	2753.6	2800.9	2910.1	3095.8	3335.8	3398.6	3521.5	3471.7	2972.0
22.5°	2693.4	2701.1	2691.7	2706.3	2783.7	2948.8	3207.6	3291.1	3463.9	3449.3	2919.6
25°	2721.8	2729.5	2707.1	2689.9	2716.6	2829.3	3083.8	3185.3	3417.5	3445.0	2880.0
27.5°	2790.6	2805.2	2774.2	2743.3	2727.8	2764.8	2986.6	3104.4	3385.7	3465.6	2861.9
30°	2898.1	2906.7	2883.4	2845.6	2810.3	2773.4	2935.9	3048.6	3377.1	3513.8	2860.2
32.5°	3015.0	3033.1	3020.2	2995.2	2949.7	2861.9	2950.5	3050.3	3397.7	3583.4	2881.7
35°	3159.5	3180.1	3192.2	3187.0	3128.5	3019.3	3043.4	3127.7	3452.7	3711.6	2940.2
37.5°	3301.4	3319.4	3387.4	3410.6	3359.0	3255.8	3224.0	3279.9	3574.0	3879.3	3046.0
40°	3463.9	3488.0	3583.4	3672.0	3647.1	3538.7	3480.3	3526.7	3759.7	4132.1	3246.3
42.5°	3619.6	3662.6	3807.9	3964.4	3987.6	3866.4	3827.7	3843.2	4034.9	4495.9	3525.8
45°	3840.6	3881.0	4068.5	4280.9	4390.1	4295.5	4255.9	4253.4	4412.4	5007.5	3979.0
47.5°	4159.6	4195.7	4416.7	4626.6	4820.9	4833.8	4759.0	4784.8	4887.1	5606.1	4534.6
50°	4550.9	4636.0	4781.4	4999.8	5259.5	5469.3	5492.6	5458.2	5545.9	6299.2	5201.9
52.5°	5119.3	5152.0	5285.3	5465.0	5769.5	6125.5	6401.5	6354.2	6326.7	6959.6	5876.1
55°	5543.3	5587.1	5794.4	6041.2	6487.5	6957.1	7555.6	7571.9	7224.5	7594.3	6535.7
57.5°	5415.2	5482.2	5796.1	6292.3	7273.5	8131.8	8577.2	8588.4	8055.2	8210.9	7280.4
60°	4757.3	4789.1	5238.9	5901.0	7340.6	9404.5	10026.3	9936.0	8900.6	8900.6	7938.3
62.5°	3373.6	3423.5	3788.1	4762.4	6629.4	9846.5	11761.6	11575.0	10064.9	9560.2	8330.4
65°	2155.9	2107.8	2349.4	3006.4	4938.7	9193.8	13272.6	13283.8	11160.5	9824.2	8116.3
67°	1561.7	1542.8	1612.4	2055.3	3348.7	7728.4	13304.4	13893.5	11790.0	9657.3	7431.8
67.5°	1428.4	1443.0	1493.7	1854.1	3042.5	7032.7	13159.9	13857.4	11931.9	9556.7	7184.1
70°	1082.7	1057.7	1112.8	1311.4	1824.0	4436.5	11320.5	12709.3	11755.6	8558.3	5740.2
72.5°	796.3	793.7	870.3	1072.4	1404.3	2363.2	8498.1	10190.5	9604.0	6516.8	3614.4
75°	537.5	561.6	683.7	896.1	1272.7	1532.4	5793.5	7393.1	6667.3	3700.4	1477.4
77.5°	306.1	307.9	440.3	719.8	1142.9	1233.2	3433.0	4710.0	3529.3	1230.6	438.6
80°	132.4	145.3	218.4	522.9	947.7	1092.1	1968.4	2588.5	1427.5	260.6	141.9
82.5°	49.0	57.6	96.3	321.6	691.4	899.5	1189.3	1235.8	484.2	92.0	88.6
85°	0.0	1.7	35.3	150.5	360.3	401.6	794.6	732.7	214.1	43.9	57.6
87.5°	0.0	0.0	0.0	15.5	47.3	149.6	246.8	275.2	51.6	15.5	13.8
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°	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5
2.5°	3385.7	3329.8	3189.6	3049.4	2945.4	2858.5	2727.8	2656.4	2618.6	2562.7	2566.1
5°	3300.5	3187.0	2940.2	2684.8	2478.4	2277.2	2036.4	1939.2	1857.5	1811.1	1780.1
7.5°	3174.1	3006.4	2640.9	2300.4	1983.1	1631.3	1367.3	1191.0	1072.4	1028.5	986.4
10°	3035.7	2812.9	2337.4	1865.2	1425.0	1062.0	838.5	676.8	619.2	565.9	571.0
12.5°	2907.5	2636.6	2058.7	1472.2	998.4	675.1	526.3	460.1	441.2	435.1	435.1
15°	2802.6	2468.1	1759.5	1106.8	684.5	485.0	421.4	403.3	396.4	394.7	394.7
17.5°	2690.8	2308.1	1489.4	817.8	497.9	405.9	384.4	372.4	369.8	368.1	368.1
20°	2591.1	2147.3	1233.2	608.9	402.5	365.5	351.7	344.0	341.4	339.7	340.5
22.5°	2496.5	2004.6	992.4	460.1	354.3	332.8	319.0	311.3	306.1	301.8	302.7
25°	2412.2	1867.0	798.0	376.7	319.0	300.1	286.4	275.2	264.0	258.8	258.0
27.5°	2352.8	1746.6	621.7	322.5	287.2	266.6	249.4	235.6	221.0	213.3	211.5
30°	2303.8	1624.5	491.9	284.6	255.4	235.6	214.1	194.4	178.9	171.1	167.7
32.5°	2272.0	1508.4	387.8	253.7	228.7	204.7	180.6	160.8	143.6	135.9	134.2
35°	2266.8	1411.2	317.3	227.9	204.7	178.9	153.9	132.4	117.8	110.1	108.4
37.5°	2303.8	1336.4	265.7	207.2	184.9	156.5	129.0	109.2	96.3	90.3	89.4
40°	2402.7	1289.1	230.5	190.1	166.8	135.9	110.1	92.9	80.0	74.0	74.0
42.5°	2591.1	1290.8	207.2	173.7	148.8	116.1	93.7	77.4	66.2	61.1	59.3
45°	2885.2	1349.3	187.5	157.4	131.6	100.6	80.0	63.6	52.5	48.2	48.2
47.5°	3279.0	1465.4	170.3	141.0	116.1	86.0	67.9	51.6	42.1	37.8	37.8
50°	3794.1	1652.0	155.7	127.3	103.2	74.0	55.0	42.1	32.7	29.2	28.4
52.5°	4332.5	1882.4	138.5	115.2	88.6	62.8	44.7	32.7	24.9	22.4	21.5
55°	4926.7	2107.8	122.1	103.2	72.2	52.5	35.3	25.8	18.1	15.5	15.5
57.5°	5526.1	2328.8	102.3	86.0	56.8	38.7	27.5	18.9	12.0	9.5	9.5
60°	6033.5	2400.1	86.9	69.7	43.0	27.5	19.8	12.0	6.9	4.3	4.3
62.5°	6103.1	2159.4	73.1	53.3	31.0	18.9	10.3	6.9	2.6	1.7	1.7
65°	5724.7	1754.3	61.1	40.4	20.6	9.5	4.3	2.6	0.9	0.0	0.0
67°	5129.6	1422.4	49.9	30.1	14.6	6.0	2.6	0.9	0.0	0.0	0.0
67.5°	4977.4	1356.2	48.2	28.4	12.9	5.2	1.7	0.9	0.0	0.0	0.0
70°	3905.9	1015.6	34.4	17.2	7.7	3.4	0.0	0.0	0.0	0.0	0.0
72.5°	2427.7	574.5	24.9	10.3	5.2	1.7	0.0	0.0	0.0	0.0	0.0
75°	917.6	201.2	17.2	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	285.5	76.5	10.3	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	96.3	29.2	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.3	12.0	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.0	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	1.7	0.9	0.0	0.0	0.0	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)