

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: P453461

Luminaire Tested: **GALN-SA4C-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18211 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

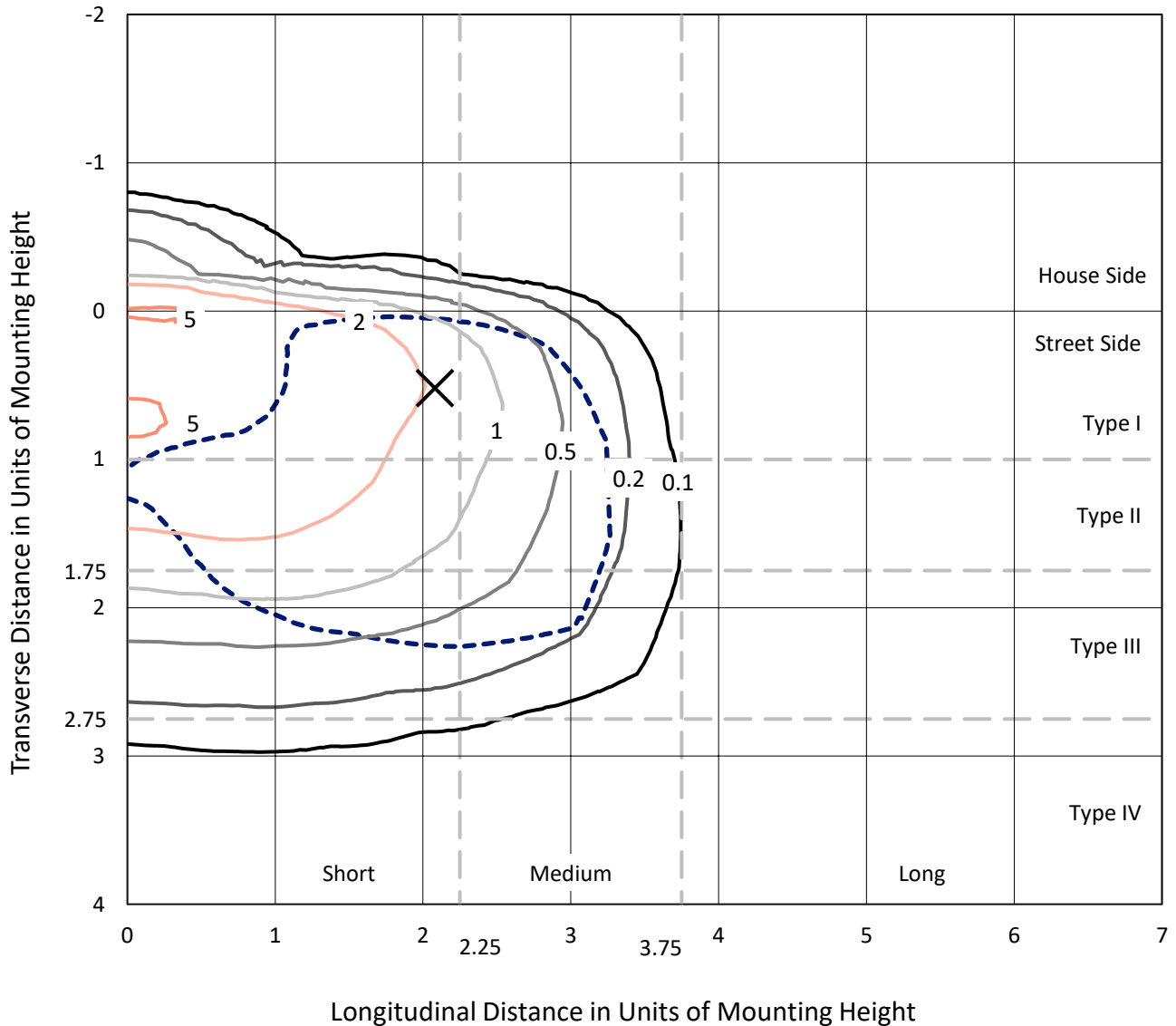
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

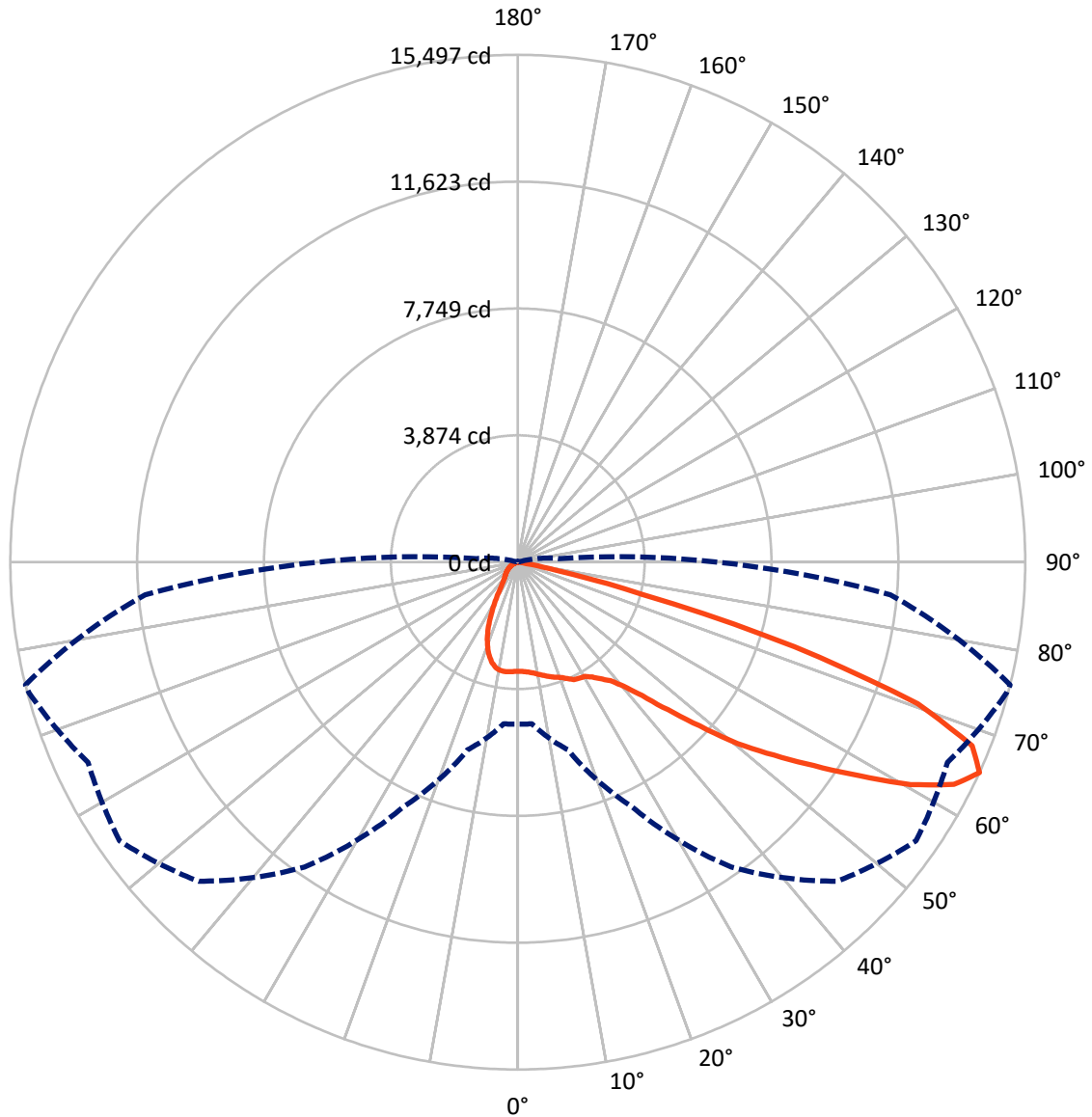
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1315.2	0.0	1315.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16895.8	0.0	16895.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	18211.0	0.0	18211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	1.5
10°-20°	611.0	3.4
20°-30°	984.6	5.4
30°-40°	1712.0	9.4
40°-50°	2829.0	15.5
50°-60°	4370.2	24.0
60°-70°	5336.7	29.3
70°-80°	2025.4	11.1
80°-90°	67.6	0.4
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°	18211.0	100.0
0°-180°	18211.0	100.0

Coefficient of Utilization



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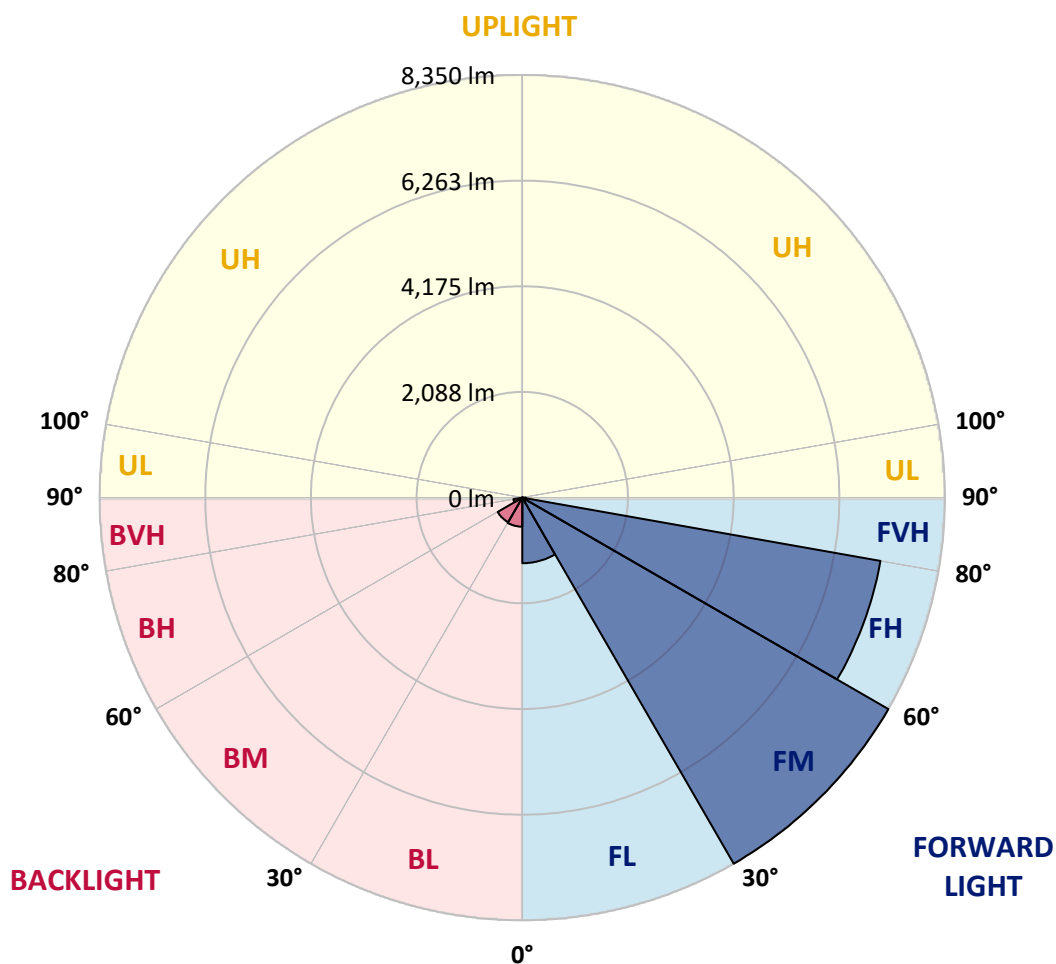
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.5	7.1			
FM (30°-60°)	8350.0	45.9			
FH (60°-80°)	7183.6	39.4			G3/7500
FVH (80°-90°)	66.7	0.4			G1/100
BL (0°-30°)	574.6	3.2	B2/1000		
BM (30°-60°)	561.2	3.1	B1/1000		
BH (60°-80°)	178.5	1.0	B1/500		G1/500
BVH (80°-90°)	0.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3331.4	3331.4	3331.4	3331.4	3331.4	3331.4	3331.4	3331.4	3331.4	3331.4	3331.4
2.5°	3183.5	3184.8	3192.5	3211.8	3241.4	3265.8	3286.4	3319.8	3342.9	3345.5	3353.2
5°	2963.6	2948.2	2963.6	3013.8	3058.8	3126.9	3210.5	3294.1	3368.7	3373.8	3409.8
7.5°	2716.8	2729.6	2754.1	2805.5	2890.4	2994.5	3115.4	3264.5	3405.9	3418.8	3489.5
10°	2466.1	2494.4	2534.2	2612.6	2730.9	2865.9	3030.5	3243.9	3465.1	3483.1	3605.2
12.5°	2234.6	2247.5	2296.3	2401.8	2548.4	2738.6	2966.2	3232.4	3530.7	3552.5	3728.7
15°	2057.2	2073.9	2116.3	2211.5	2374.8	2619.1	2913.5	3228.5	3595.0	3625.8	3852.1
17.5°	2023.8	2034.1	2052.1	2116.3	2259.1	2523.9	2865.9	3227.2	3656.7	3694.0	3966.5
20°	2161.3	2152.3	2134.3	2127.9	2206.3	2450.6	2831.2	3237.5	3715.8	3758.2	4087.4
22.5°	2505.9	2517.5	2412.1	2287.3	2261.6	2439.1	2826.1	3286.4	3809.7	3859.8	4222.4
25°	3237.5	3148.8	2984.2	2685.9	2460.9	2509.8	2883.9	3402.1	3919.0	3974.2	4344.5
27.5°	4046.2	4019.2	3763.4	3272.2	2853.1	2658.9	2986.8	3490.8	3955.0	4011.5	4414.0
30°	4840.8	4873.0	4579.8	4037.2	3422.7	2935.4	3083.2	3524.2	3987.1	4046.2	4502.7
32.5°	5577.6	5616.1	5359.0	4821.6	4093.8	3413.7	3249.1	3654.1	4122.1	4182.5	4650.6
35°	6157.4	6162.6	5968.4	5540.3	4826.7	3994.8	3607.8	3881.7	4304.7	4375.4	4807.4
37.5°	6689.7	6682.0	6454.5	6085.4	5437.4	4572.1	4059.1	4144.0	4513.0	4586.3	5033.7
40°	7084.5	7089.6	7016.3	6669.2	6007.0	5105.7	4416.5	4389.5	4862.7	4977.1	5362.9
42.5°	7348.0	7395.6	7431.6	7255.5	6723.2	5762.7	4965.6	4915.4	5469.6	5564.7	5828.3
45°	7561.5	7646.3	7826.3	7817.3	7411.1	6568.9	5719.0	5616.1	6329.7	6431.3	6421.0
47.5°	7717.1	7803.2	8101.5	8281.5	8057.8	7350.6	6666.6	6577.9	7357.1	7467.6	7075.5
50°	7796.8	7899.6	8280.2	8628.7	8563.1	8104.1	7746.6	7751.8	8597.8	8704.5	7834.1
52.5°	7610.3	7744.1	8375.4	9002.8	9130.1	8825.4	8758.5	8928.2	9702.3	9793.5	8519.4
55°	7015.0	7183.5	8245.5	9321.7	9787.1	9676.5	9908.0	10166.4	10909.6	10968.7	9222.7
57.5°	6638.3	6817.0	7862.3	9593.0	10576.6	10746.3	11112.7	11301.7	12155.5	12305.9	10030.1
60°	6320.7	6460.9	7547.3	9650.8	11378.9	12055.2	12411.3	12606.8	13693.2	13790.9	10918.6
62.5°	5792.3	5953.0	7015.0	9247.1	11782.6	13103.1	13841.1	13753.6	14882.5	14950.7	11463.7
65°	4942.4	4956.6	5935.0	8232.6	11366.0	13783.2	14845.2	14478.8	15450.8	15497.1	11421.3
67.5°	3688.8	3825.1	4565.7	6471.2	9600.7	13202.1	15170.5	14498.1	15092.1	14963.5	10514.8
70°	2376.1	2480.2	3094.8	4487.3	6922.5	11017.6	14091.8	13504.2	13245.8	12960.3	8606.8
72.5°	1096.7	1230.5	1838.6	2563.8	4105.4	7848.2	11439.3	10971.3	9533.8	8829.2	5470.9
75°	478.3	511.7	907.7	1352.6	1924.8	4150.4	7542.2	6810.6	4306.0	3933.1	2189.6
77.5°	291.9	313.7	475.7	725.2	756.0	1581.5	4063.0	2971.4	1330.7	1173.9	594.0
80°	198.0	222.4	345.9	379.3	258.4	441.0	1524.9	793.3	268.7	257.1	127.3
82.5°	96.4	122.1	255.9	212.1	111.9	141.4	443.6	169.7	78.4	73.3	45.0
85°	14.1	24.4	144.0	138.9	50.1	33.4	78.4	42.4	27.0	25.7	20.6
87.5°	0.0	0.0	48.9	21.9	5.1	5.1	9.0	9.0	10.3	9.0	10.3
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°	3331.4	3331.4	3331.4	3331.4	3331.4	3331.4	3331.4	3331.4	3331.4	3331.4	3331.4
2.5°	3357.1	3363.5	3339.1	3304.4	3267.1	3229.8	3177.1	3129.5	3101.2	3117.9	3076.8
5°	3417.5	3412.4	3348.1	3242.7	3102.5	2934.1	2766.9	2624.2	2577.9	2508.5	2500.8
7.5°	3501.1	3486.9	3350.7	3108.9	2792.6	2476.4	2167.8	1963.3	1846.3	1747.3	1749.9
10°	3618.1	3577.0	3321.1	2873.6	2352.9	1875.9	1482.5	1212.5	1095.5	1058.2	1028.6
12.5°	3739.0	3659.2	3238.8	2556.1	1832.2	1281.9	901.3	736.7	664.7	641.6	639.0
15°	3847.0	3721.0	3094.8	2174.2	1332.0	819.0	614.6	560.6	551.6	552.9	551.6
17.5°	3953.7	3769.8	2895.5	1769.2	905.2	587.6	528.4	515.6	519.4	524.6	523.3
20°	4042.4	3780.1	2640.9	1350.0	640.3	515.6	496.3	493.7	497.6	501.4	501.4
22.5°	4138.8	3787.8	2338.8	934.7	523.3	479.6	469.3	469.3	474.4	479.6	480.9
25°	4210.8	3745.4	1977.5	671.2	461.6	444.9	439.7	441.0	446.2	448.7	447.4
27.5°	4222.4	3625.8	1594.3	514.3	419.2	402.4	397.3	402.4	396.0	399.9	397.3
30°	4232.7	3474.1	1206.0	433.3	380.6	354.9	347.2	339.4	334.3	327.9	326.6
32.5°	4264.8	3295.4	880.7	389.6	344.6	316.3	298.3	276.4	259.7	254.6	253.3
35°	4279.0	3080.7	646.7	354.9	312.4	281.6	249.4	218.6	194.1	185.1	191.6
37.5°	4333.0	2872.4	501.4	329.2	284.2	245.6	204.4	165.9	142.7	137.6	140.1
40°	4443.5	2646.1	420.4	307.3	259.7	212.1	162.0	124.7	109.3	104.1	102.9
42.5°	4621.0	2421.1	374.2	286.7	235.3	178.7	127.3	97.7	84.9	81.0	81.0
45°	4837.0	2205.1	342.0	264.9	209.6	144.0	100.3	78.4	70.7	68.1	68.1
47.5°	5121.1	2016.1	315.0	243.0	181.3	114.4	81.0	68.1	63.0	64.3	65.6
50°	5409.1	1875.9	285.4	218.6	149.1	93.9	69.4	60.4	59.1	60.4	60.4
52.5°	5626.4	1793.6	245.6	185.1	117.0	78.4	61.7	56.6	55.3	52.7	52.7
55°	5919.6	1775.6	195.4	150.4	92.6	65.6	55.3	51.4	47.6	45.0	43.7
57.5°	6296.3	1796.2	150.4	117.0	72.0	54.0	48.9	42.4	37.3	32.1	32.1
60°	6530.3	1749.9	117.0	90.0	52.7	43.7	37.3	30.9	24.4	20.6	19.3
62.5°	6455.7	1554.5	92.6	66.9	37.3	32.1	24.4	20.6	14.1	10.3	9.0
65°	6071.3	1254.9	74.6	46.3	27.0	19.3	12.9	12.9	6.4	1.3	0.0
67.5°	5314.0	929.6	59.1	30.9	15.4	9.0	6.4	3.9	0.0	0.0	0.0
70°	4325.3	671.2	46.3	19.3	9.0	6.4	2.6	1.3	0.0	0.0	0.0
72.5°	2746.4	384.4	36.0	11.6	6.4	2.6	0.0	0.0	0.0	0.0	0.0
75°	1062.0	150.4	24.4	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	300.9	70.7	14.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	78.4	30.9	7.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.3	12.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.9	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	1.3	0.0	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)