

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: P527447

Luminaire Tested: **GALN-SA2C-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8821 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

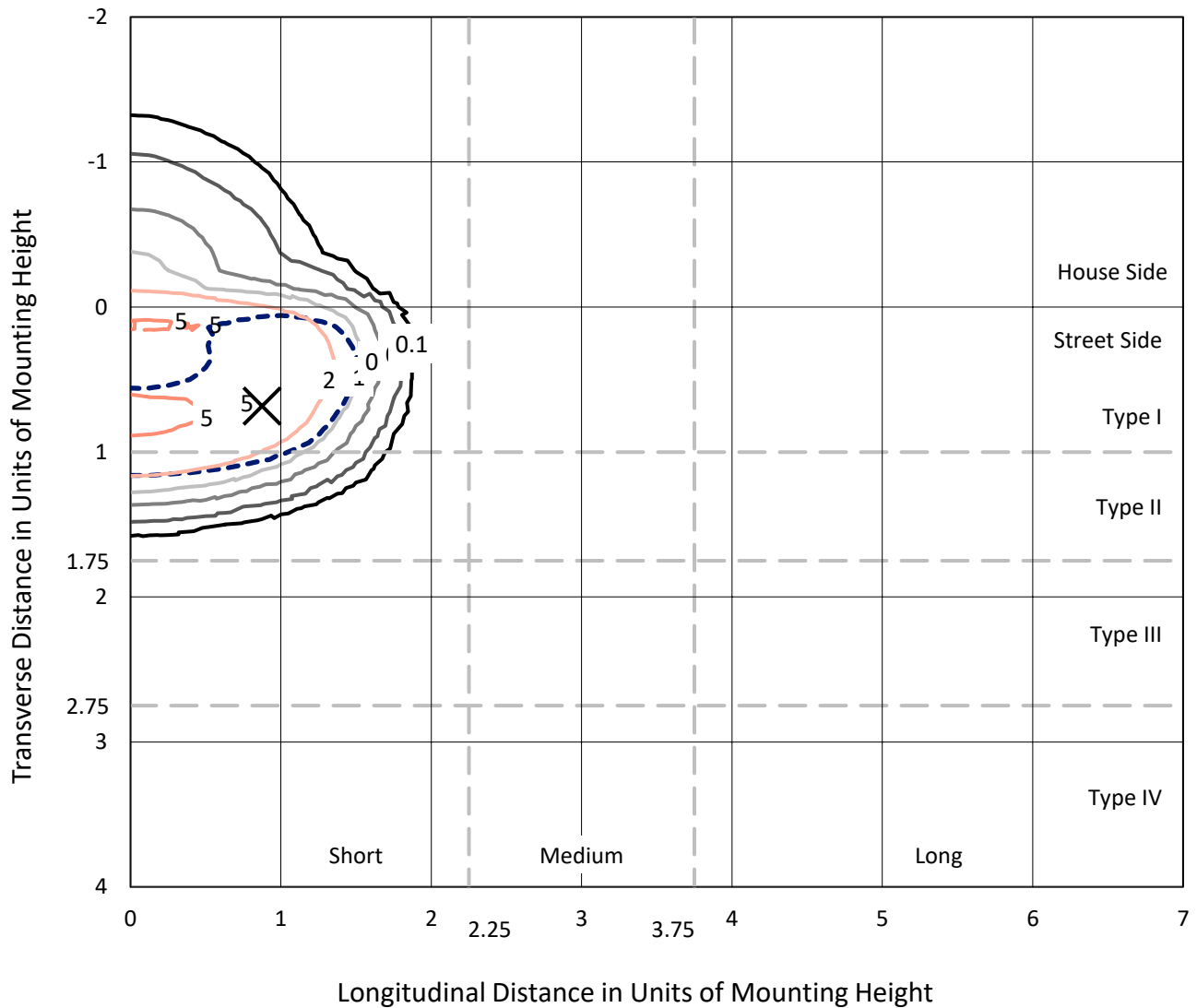
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

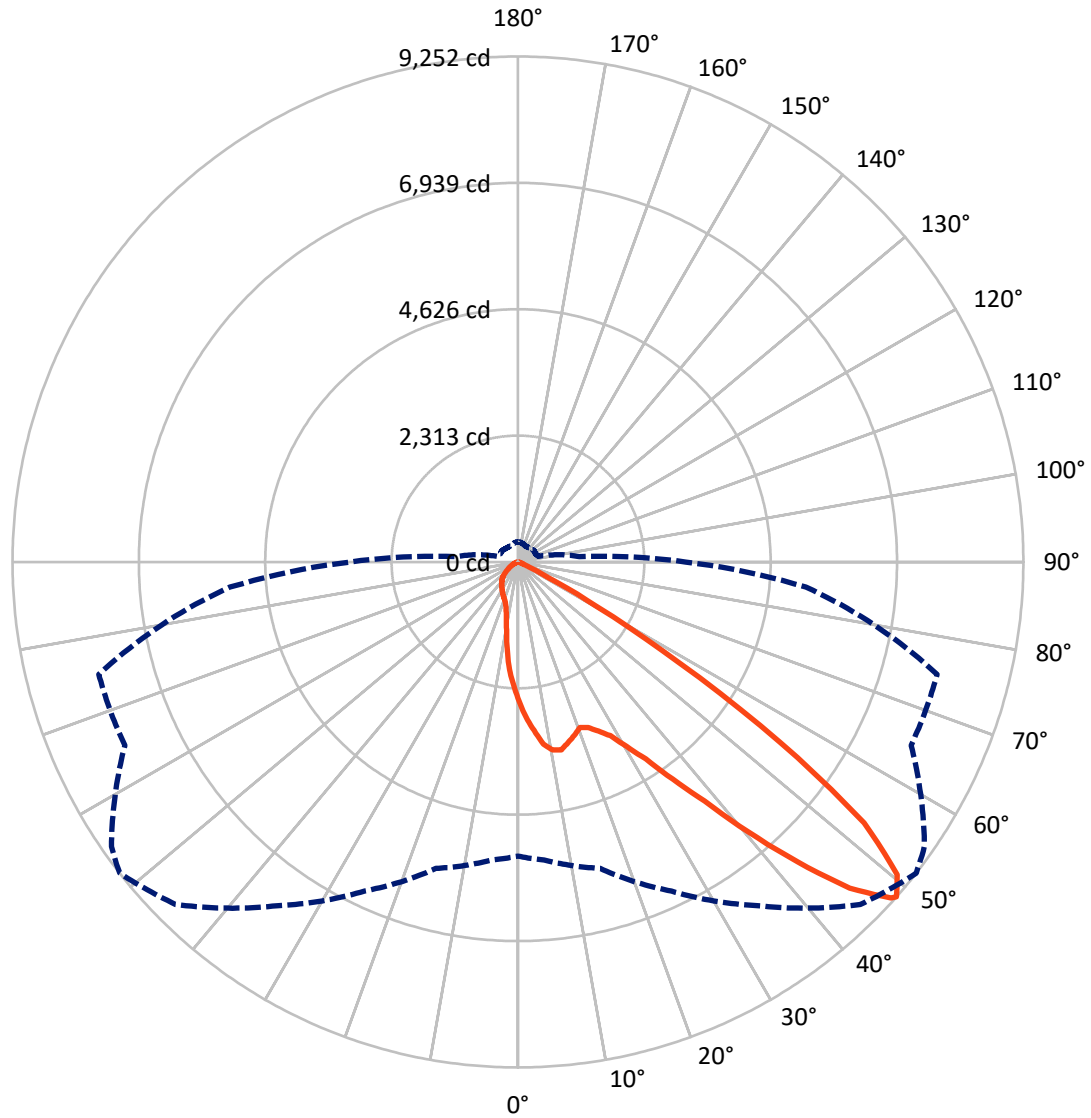
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1074.0	0.0	1074.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7747.0	0.0	7747.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	8821.0	0.0	8821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	2.6
10°-20°	609.3	6.9
20°-30°	1040.4	11.8
30°-40°	1915.8	21.7
40°-50°	2975.3	33.7
50°-60°	1790.6	20.3
60°-70°	207.1	2.3
70°-80°	40.1	0.5
80°-90°	9.3	0.1
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°	8821.0	100.0
0°-180°	8821.0	100.0

Coefficient of Utilization



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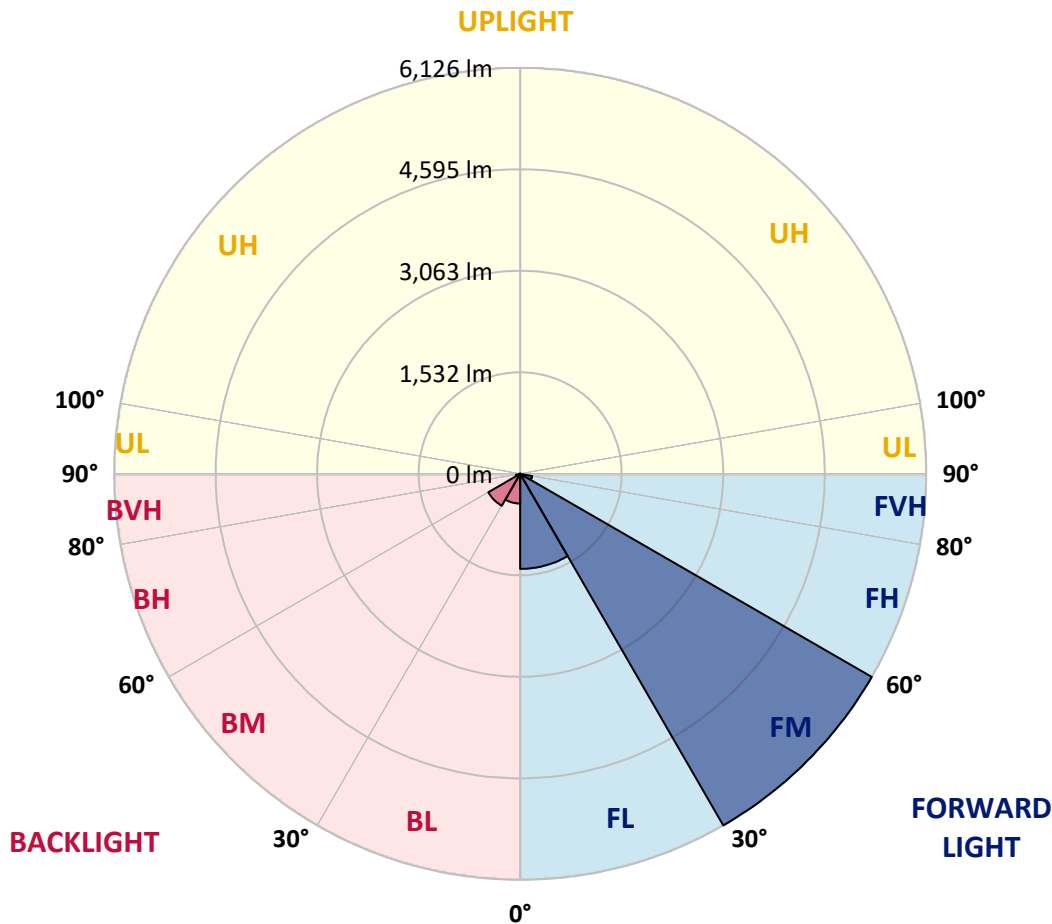
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1434.2	16.3			
FM (30°-60°)	6126.0	69.4			
FH (60°-80°)	182.4	2.1			G0/660
FVH (80°-90°)	4.4	0.1			G0/10
BL (0°-30°)	448.7	5.1	B1/500		
BM (30°-60°)	555.7	6.3	B1/1000		
BH (60°-80°)	64.8	0.7	B0/110		G0/110
BVH (80°-90°)	4.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4
2.5°	3087.4	3016.7	3023.1	2976.8	2949.8	2906.1	2847.0	2835.4	2771.1	2683.7	2594.9
5°	3365.2	3348.5	3370.3	3303.5	3306.0	3234.0	3095.1	3097.7	2949.8	2807.1	2669.5
7.5°	3383.2	3344.6	3366.5	3425.6	3460.3	3447.5	3369.0	3300.9	3160.7	2951.1	2750.5
10°	3029.6	3102.9	3126.0	3223.7	3362.6	3509.2	3500.2	3504.1	3387.0	3113.2	2820.0
12.5°	2817.4	2768.5	2847.0	2906.1	3115.7	3399.9	3529.8	3558.1	3567.1	3270.0	2889.4
15°	2721.0	2721.0	2733.8	2750.5	2902.3	3164.6	3429.5	3511.8	3705.9	3475.8	2998.7
17.5°	2781.4	2778.8	2796.8	2762.1	2818.7	3020.6	3336.9	3430.8	3861.5	3677.7	3084.9
20°	2965.3	2974.3	2962.7	2862.4	2866.3	3018.0	3234.0	3381.9	3967.0	3852.5	3199.3
22.5°	3221.2	3226.3	3160.7	3051.4	3019.3	3093.9	3293.2	3406.3	4051.9	4062.1	3234.0
25°	3516.9	3496.3	3483.5	3329.2	3231.5	3295.7	3426.9	3492.5	4104.6	4242.2	3333.0
27.5°	3927.1	3886.0	3807.5	3669.9	3597.9	3506.6	3600.5	3708.5	4255.0	4494.2	3441.1
30°	4532.8	4496.8	4343.8	4166.3	3977.3	3887.3	3916.8	3976.0	4526.4	4786.1	3583.8
32.5°	5444.5	5368.6	5147.4	4809.2	4552.1	4303.9	4296.2	4359.2	4769.4	5189.9	3753.5
35°	6448.8	6425.6	6100.3	5751.8	5254.2	4871.0	4877.4	4910.8	5234.9	5719.7	3976.0
37.5°	7116.1	7243.4	7036.4	6662.2	6244.3	5696.5	5557.6	5569.2	5874.0	6347.2	4377.2
40°	7631.8	7523.8	7548.2	7460.8	7175.3	6802.4	6495.1	6434.6	6613.4	7041.6	4775.8
42.5°	7406.8	7411.9	7562.3	7769.4	7840.1	7813.1	7499.3	7384.9	7246.0	7609.9	5155.2
45°	6771.5	6904.0	7099.4	7647.2	8128.1	8579.5	8517.8	8327.5	7683.2	8060.0	5373.8
47.5°	5758.2	5753.1	6073.3	6785.7	7854.2	8911.3	9191.6	9057.8	7993.1	8009.8	5328.7
48°	5384.0	5476.6	5807.1	6645.5	7680.7	8862.4	9252.0	9083.6	7940.4	7943.0	5290.2
50°	3979.8	3963.1	4374.6	5403.3	6860.3	8327.5	8997.4	9128.6	7939.1	7604.8	5020.1
52.5°	2102.4	2174.4	2474.1	3397.3	4850.4	6815.2	7936.5	8141.0	7658.8	7051.8	4631.8
55°	893.7	807.5	1037.7	1534.1	2728.7	4553.4	5822.5	6277.7	6475.8	6240.4	4051.9
57.5°	318.9	348.5	401.2	577.4	1147.0	2492.1	3471.9	3825.5	4486.5	4579.1	2760.8
60°	204.5	208.3	225.0	264.9	430.8	960.6	1647.2	1928.8	2228.5	2300.5	1288.5
62.5°	158.2	159.5	167.2	173.6	204.5	372.9	618.5	733.0	761.2	654.5	338.2
65°	132.4	133.7	136.3	136.3	145.3	174.9	216.0	237.9	231.5	228.9	191.6
67.5°	101.6	104.2	109.3	109.3	114.4	106.7	119.6	127.3	144.0	174.9	163.3
70°	79.7	81.0	84.9	87.4	87.4	77.2	86.2	93.9	105.4	129.9	128.6
72.5°	61.7	64.3	66.9	66.9	63.0	52.7	61.7	68.2	75.9	90.0	87.4
75°	47.6	47.6	48.9	39.9	30.9	27.0	37.3	45.0	56.6	59.2	48.9
77.5°	12.9	14.1	12.9	11.6	12.9	19.3	24.4	28.3	36.0	36.0	32.1
80°	0.0	1.3	3.9	7.7	12.9	18.0	21.9	24.4	28.3	30.9	29.6
82.5°	0.0	1.3	3.9	7.7	11.6	14.1	19.3	20.6	23.1	27.0	27.0
85°	0.0	1.3	2.6	5.1	7.7	9.0	9.0	7.7	7.7	6.4	5.1
87.5°	0.0	0.0	1.3	2.6	2.6	3.9	3.9	3.9	3.9	3.9	3.9
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°	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4
2.5°	2560.2	2520.4	2459.9	2364.8	2273.5	2214.3	2157.7	2094.7	2060.0	2057.4	2038.1
5°	2591.1	2501.1	2357.0	2193.7	2018.9	1868.4	1716.7	1617.7	1528.9	1480.1	1471.1
7.5°	2607.8	2490.8	2258.0	1984.1	1685.8	1440.2	1270.5	1145.7	1096.9	1060.9	1059.6
10°	2642.5	2472.8	2110.2	1706.4	1337.3	1089.2	972.1	915.6	888.6	878.3	862.8
12.5°	2668.2	2439.3	1958.4	1420.9	1057.0	902.7	851.3	838.4	839.7	844.8	838.4
15°	2704.2	2409.8	1754.0	1166.3	887.3	812.7	812.7	815.3	833.3	835.8	834.5
17.5°	2701.7	2351.9	1543.1	960.6	784.4	774.1	778.0	802.4	814.0	817.8	808.8
20°	2732.5	2297.9	1325.8	820.4	726.5	742.0	767.7	774.1	788.3	790.8	780.5
22.5°	2723.5	2162.9	1123.9	709.8	682.8	712.4	738.1	745.8	742.0	734.2	733.0
25°	2706.8	2047.1	938.7	636.5	650.7	682.8	707.2	693.1	685.4	686.7	688.0
27.5°	2677.2	1900.6	785.7	585.1	606.9	654.5	653.2	648.1	655.8	649.4	655.8
30°	2672.1	1754.0	659.7	538.8	574.8	609.5	612.1	621.1	630.1	618.5	630.1
32.5°	2679.8	1593.2	569.7	510.5	555.5	556.8	585.1	594.1	587.7	561.9	564.5
35°	2739.0	1469.8	504.1	495.1	524.6	525.9	552.9	541.4	513.1	497.6	506.6
37.5°	2863.7	1366.9	473.2	480.9	483.5	500.2	501.5	478.4	480.9	479.6	484.8
40°	3023.1	1288.5	451.3	468.1	465.5	477.1	430.8	443.6	455.2	459.1	461.6
42.5°	3132.4	1231.9	437.2	447.5	442.3	421.8	396.1	408.9	417.9	432.1	434.6
45°	3181.3	1186.9	420.5	411.5	411.5	374.2	363.9	366.5	387.1	402.5	399.9
47.5°	3101.6	1143.2	390.9	363.9	372.9	342.0	330.5	330.5	352.3	371.6	367.8
48°	3070.7	1125.2	392.2	353.6	360.1	336.9	325.3	322.8	347.2	365.2	365.2
50°	2917.7	1058.3	358.8	325.3	312.5	309.9	302.2	304.8	320.2	336.9	336.9
52.5°	2619.4	914.3	303.5	279.0	255.9	271.3	275.2	270.0	277.8	293.2	291.9
55°	2186.0	702.1	243.0	231.5	213.5	230.2	237.9	231.5	223.7	235.3	235.3
57.5°	1400.3	378.1	194.2	196.7	178.7	195.5	201.9	186.5	172.3	181.3	180.0
60°	631.4	226.3	159.5	155.6	144.0	163.3	173.6	155.6	136.3	142.7	149.2
62.5°	236.6	160.7	120.9	118.3	115.7	133.7	138.9	124.7	105.4	109.3	110.6
65°	173.6	141.4	96.4	87.4	92.6	105.4	102.9	88.7	75.9	75.9	78.4
67.5°	147.9	123.4	78.4	68.2	68.2	69.4	64.3	56.6	52.7	55.3	57.9
70°	115.7	97.7	61.7	52.7	47.6	42.4	37.3	36.0	32.1	36.0	34.7
72.5°	74.6	65.6	47.6	39.9	36.0	29.6	24.4	23.1	19.3	18.0	18.0
75°	39.9	39.9	37.3	32.1	28.3	23.1	19.3	15.4	10.3	7.7	7.7
77.5°	28.3	30.9	33.4	30.9	25.7	19.3	15.4	10.3	5.1	2.6	2.6
80°	27.0	30.9	33.4	29.6	25.7	19.3	14.1	7.7	3.9	1.3	1.3
82.5°	24.4	28.3	30.9	27.0	23.1	16.7	12.9	7.7	3.9	1.3	1.3
85°	5.1	6.4	7.7	7.7	9.0	11.6	9.0	6.4	2.6	1.3	1.3
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	2.6	2.6	1.3	1.3	1.3
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)