

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: P528857

Luminaire Tested: **GALN-SA4A-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8848 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

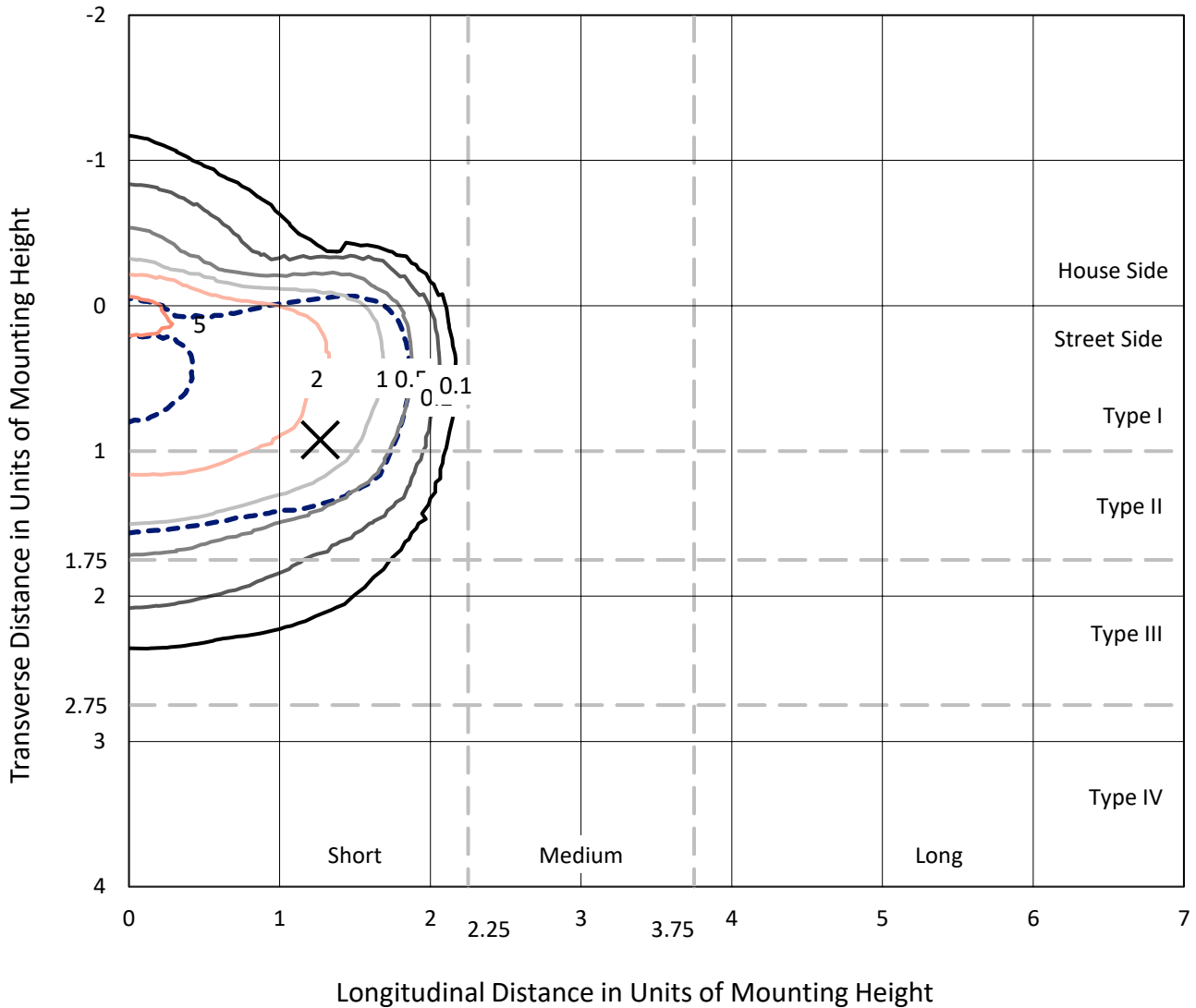
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

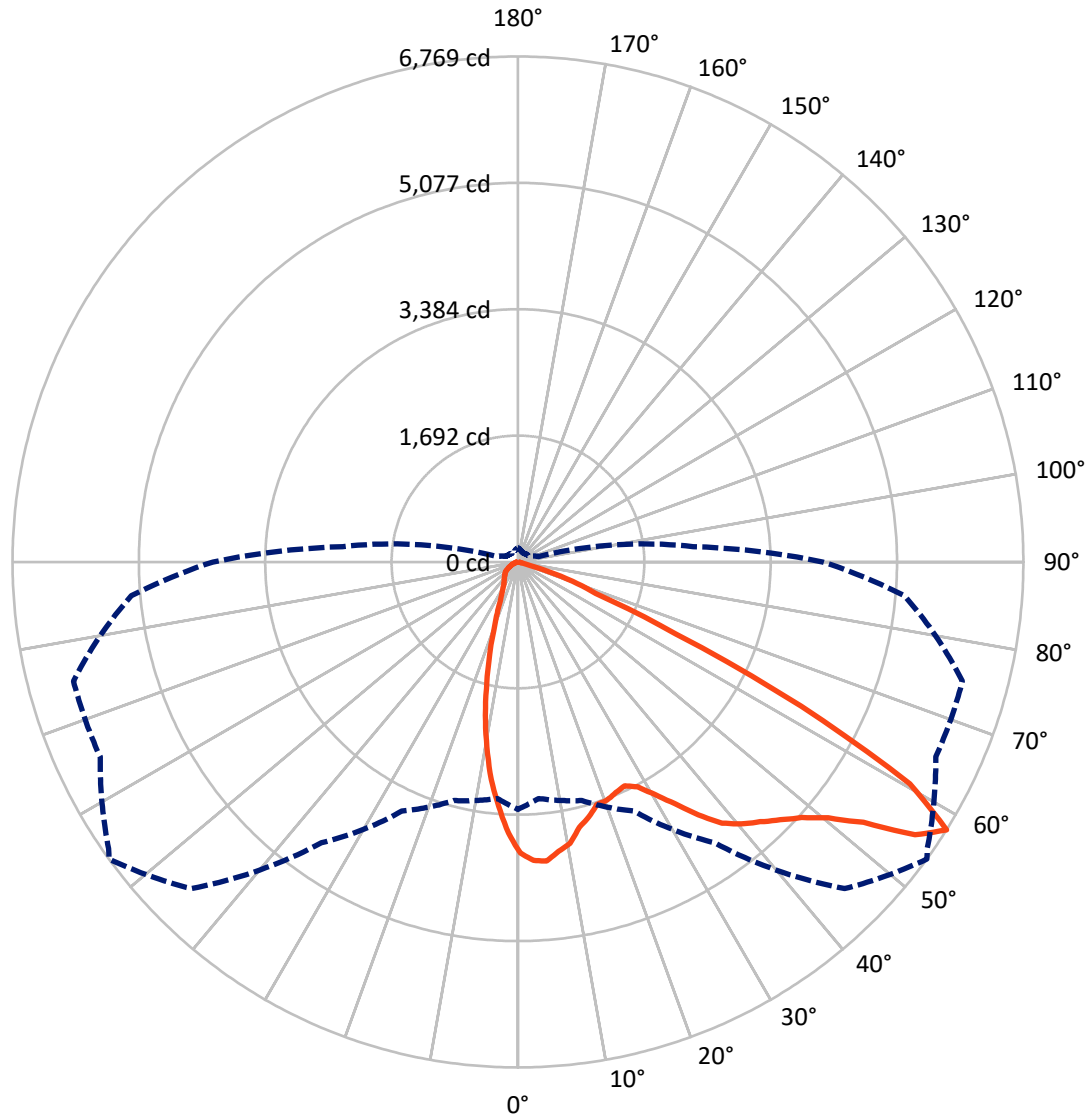
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1250.4	0.0	1250.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7597.6	0.0	7597.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	8848.0	0.0	8848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	3.7
10°-20°	696.4	7.9
20°-30°	922.8	10.4
30°-40°	1341.1	15.2
40°-50°	1988.7	22.5
50°-60°	2486.7	28.1
60°-70°	980.9	11.1
70°-80°	97.7	1.1
80°-90°	7.6	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°	8848.0	100.0
0°-180°	8848.0	100.0

Coefficient of Utilization



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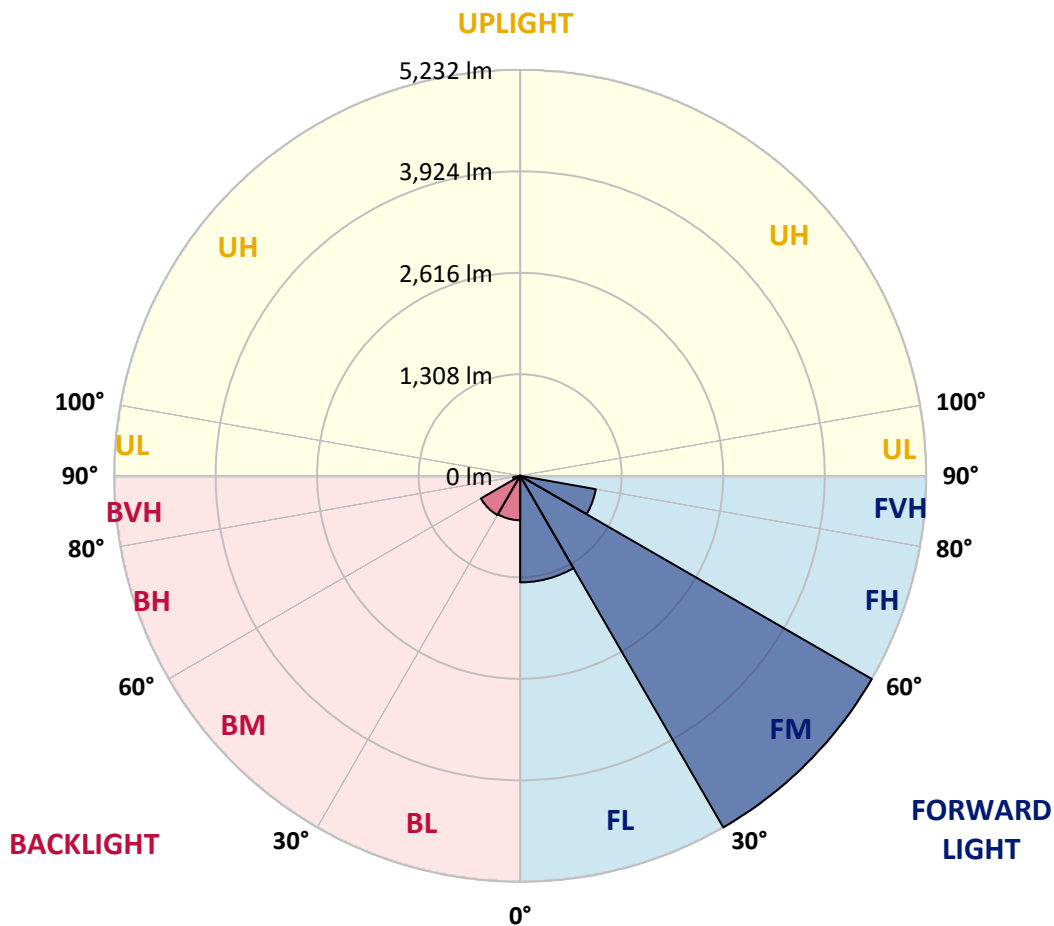
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1373.5	15.5			
FM (30°-60°)	5231.8	59.1			
FH (60°-80°)	988.9	11.2			G1/1800
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	571.9	6.5	B2/1000		
BM (30°-60°)	584.7	6.6	B1/1000		
BH (60°-80°)	89.7	1.0	B0/110		G0/110
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7
2.5°	4124.7	4081.9	4085.2	4070.4	4050.7	4065.5	4001.3	4016.1	4014.5	3927.3	3869.7
5°	4021.1	4067.1	4019.4	4058.9	4021.1	4062.2	4022.7	3993.1	3945.4	3881.2	3774.3
7.5°	3845.0	3800.6	3813.8	3863.1	3871.3	3963.5	3914.1	3952.0	3932.2	3805.5	3659.1
10°	3491.3	3481.4	3547.2	3613.0	3693.6	3792.4	3830.2	3808.8	3794.0	3746.3	3550.5
12.5°	3219.8	3247.8	3246.1	3354.7	3491.3	3547.2	3645.9	3642.6	3724.9	3636.1	3448.5
15°	2961.5	2976.3	3045.4	3112.9	3264.2	3423.8	3545.6	3562.0	3660.7	3598.2	3369.5
17.5°	2803.6	2782.2	2836.5	2917.1	3071.7	3280.7	3415.6	3455.1	3590.0	3576.8	3279.0
20°	2647.3	2647.3	2691.7	2787.1	2928.6	3163.9	3404.1	3392.6	3590.0	3552.2	3182.0
22.5°	2594.6	2620.9	2632.4	2704.8	2872.7	3075.0	3354.7	3376.1	3618.0	3540.6	3139.2
25°	2667.0	2632.4	2635.7	2693.3	2851.3	3032.2	3318.5	3366.2	3669.0	3598.2	3104.6
27.5°	2678.5	2713.1	2722.9	2762.4	2867.7	3045.4	3409.0	3506.1	3795.7	3733.1	3114.5
30°	2778.9	2813.4	2811.8	2879.2	2951.6	3152.4	3611.4	3631.1	4057.3	3902.6	3175.4
32.5°	2900.6	2936.8	2948.3	3027.3	3084.9	3348.1	3858.2	3909.2	4309.0	4169.1	3335.0
35°	3052.0	3038.8	3091.5	3170.5	3293.8	3634.4	4159.3	4244.8	4580.5	4514.6	3499.5
37.5°	3241.2	3224.7	3275.7	3404.1	3571.9	3973.3	4437.3	4493.3	4777.9	4835.5	3803.9
40°	3374.5	3381.0	3535.7	3708.5	3886.1	4295.8	4613.4	4667.7	4916.1	5134.9	4034.2
42.5°	3596.6	3637.7	3823.6	4034.2	4220.1	4537.7	4756.5	4809.1	4980.3	5375.1	4345.2
45°	3919.1	3901.0	4106.6	4341.9	4547.5	4789.4	4926.0	4907.9	5018.1	5613.7	4541.0
47.5°	4333.7	4337.0	4473.5	4674.2	4888.1	5008.2	5115.2	5051.0	5097.1	5865.4	4802.6
50°	4616.6	4641.3	4751.6	4957.2	5064.2	5248.4	5385.0	5345.5	5330.7	6016.8	4967.1
52.5°	4689.0	4763.1	4822.3	5079.0	5329.1	5620.3	5794.7	5878.6	5615.3	6067.8	5176.0
55°	4142.8	4208.6	4417.6	4769.7	5429.4	6209.3	6449.5	6451.1	5987.2	6294.8	5322.5
57.5°	3311.9	3178.7	3307.0	3680.5	4590.3	6184.6	6768.7	6691.3	6173.1	6161.6	5195.8
60°	2290.2	2257.3	2265.5	2413.6	3177.0	4919.4	6031.6	6132.0	5684.4	5340.6	4113.2
62.5°	1814.7	1786.8	1750.6	1734.1	1972.7	3065.2	4254.7	4396.2	3975.0	3463.3	2438.3
65°	1421.5	1405.1	1410.0	1475.8	1474.2	1739.1	2326.4	2268.8	1816.4	1342.5	766.7
67.5°	959.2	983.9	1003.6	1202.7	1304.7	1210.9	1123.7	1090.8	590.7	248.4	169.5
70°	539.7	542.9	564.3	751.9	990.5	939.5	774.9	774.9	294.5	90.5	97.1
72.5°	294.5	284.6	264.9	324.1	440.9	447.5	345.5	301.1	87.2	59.2	54.3
75°	143.1	141.5	121.8	100.4	95.4	79.0	60.9	55.9	39.5	37.8	32.9
77.5°	29.6	28.0	14.8	14.8	16.5	18.1	23.0	23.0	28.0	28.0	23.0
80°	0.0	0.0	1.6	6.6	11.5	16.5	19.7	19.7	23.0	23.0	18.1
82.5°	0.0	0.0	1.6	4.9	9.9	14.8	18.1	19.7	23.0	24.7	19.7
85°	0.0	0.0	0.0	3.3	8.2	11.5	9.9	9.9	8.2	6.6	3.3
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7
2.5°	3840.1	3836.8	3761.1	3718.3	3641.0	3573.5	3519.2	3479.8	3479.8	3455.1	3432.0
5°	3731.5	3703.5	3542.3	3438.6	3292.2	3183.6	3109.6	3052.0	2961.5	2986.2	2889.1
7.5°	3596.6	3525.8	3311.9	3154.0	2951.6	2797.0	2639.0	2499.2	2364.3	2303.4	2336.3
10°	3451.8	3328.4	3040.5	2790.4	2538.7	2255.7	2071.4	1847.6	1709.4	1701.2	1665.0
12.5°	3298.8	3158.9	2808.5	2463.0	2132.3	1791.7	1510.4	1301.4	1207.6	1104.0	1123.7
15°	3183.6	2976.3	2550.2	2133.9	1694.6	1350.8	1067.8	906.5	817.7	793.0	784.8
17.5°	3058.6	2836.5	2286.9	1783.5	1329.4	972.4	768.3	691.0	656.5	656.5	651.5
20°	2928.6	2678.5	2025.3	1457.7	997.0	725.6	615.3	590.7	589.0	587.4	587.4
22.5°	2843.0	2497.5	1788.4	1158.3	751.9	580.8	534.7	524.8	531.4	551.2	551.2
25°	2752.5	2323.1	1526.8	893.4	582.4	498.5	472.2	478.8	495.2	513.3	506.7
27.5°	2660.4	2209.6	1280.0	700.9	477.1	436.0	426.1	440.9	459.0	475.5	470.5
30°	2639.0	2087.9	1046.4	531.4	409.7	380.1	386.6	399.8	417.9	424.5	431.1
32.5°	2671.9	1992.4	857.2	436.0	357.0	348.8	348.8	355.4	366.9	381.7	376.8
35°	2765.7	1938.1	677.9	378.4	327.4	319.2	317.5	324.1	330.7	335.6	330.7
37.5°	2908.9	1895.4	554.5	335.6	307.7	294.5	291.2	289.6	296.2	297.8	301.1
40°	3091.5	1918.4	470.5	309.3	287.9	273.1	263.2	263.2	263.2	268.2	269.8
42.5°	3288.9	1949.7	406.4	294.5	269.8	251.7	241.9	238.6	241.9	248.4	246.8
45°	3496.2	2010.5	365.3	271.5	253.4	230.3	217.2	213.9	222.1	235.3	233.6
47.5°	3690.4	2097.7	334.0	256.7	236.9	215.5	199.1	195.8	210.6	228.7	230.3
50°	3884.5	2249.1	322.5	245.1	225.4	200.7	185.9	182.6	199.1	222.1	227.0
52.5°	4108.3	2412.0	314.2	230.3	212.2	189.2	172.8	169.5	187.6	217.2	218.8
55°	4254.7	2550.2	307.7	204.0	187.6	171.1	157.9	156.3	176.0	202.4	209.0
57.5°	4083.6	2357.7	284.6	177.7	159.6	151.4	139.8	139.8	156.3	181.0	185.9
60°	3096.4	1551.5	202.4	143.1	134.9	130.0	125.0	125.0	138.2	156.3	157.9
62.5°	1813.1	835.8	130.0	115.2	115.2	110.2	102.0	102.0	115.2	125.0	126.7
65°	538.0	268.2	105.3	98.7	97.1	88.8	80.6	79.0	88.8	93.8	92.1
67.5°	154.7	123.4	87.2	82.3	80.6	67.5	62.5	60.9	62.5	59.2	57.6
70°	92.1	83.9	67.5	69.1	60.9	49.4	44.4	42.8	39.5	34.6	31.3
72.5°	51.0	51.0	49.4	52.6	42.8	32.9	28.0	23.0	18.1	14.8	13.2
75°	31.3	32.9	34.6	36.2	28.0	21.4	18.1	11.5	6.6	3.3	3.3
77.5°	21.4	23.0	24.7	26.3	23.0	19.7	14.8	8.2	1.6	0.0	0.0
80°	16.5	18.1	21.4	23.0	24.7	26.3	19.7	8.2	1.6	0.0	0.0
82.5°	18.1	19.7	24.7	23.0	23.0	23.0	18.1	8.2	1.6	0.0	0.0
85°	3.3	4.9	8.2	8.2	11.5	14.8	11.5	3.3	0.0	0.0	0.0
87.5°	0.0	0.0	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)