

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: P528868

Luminaire Tested: **GALN-SA4A-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
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-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12899 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

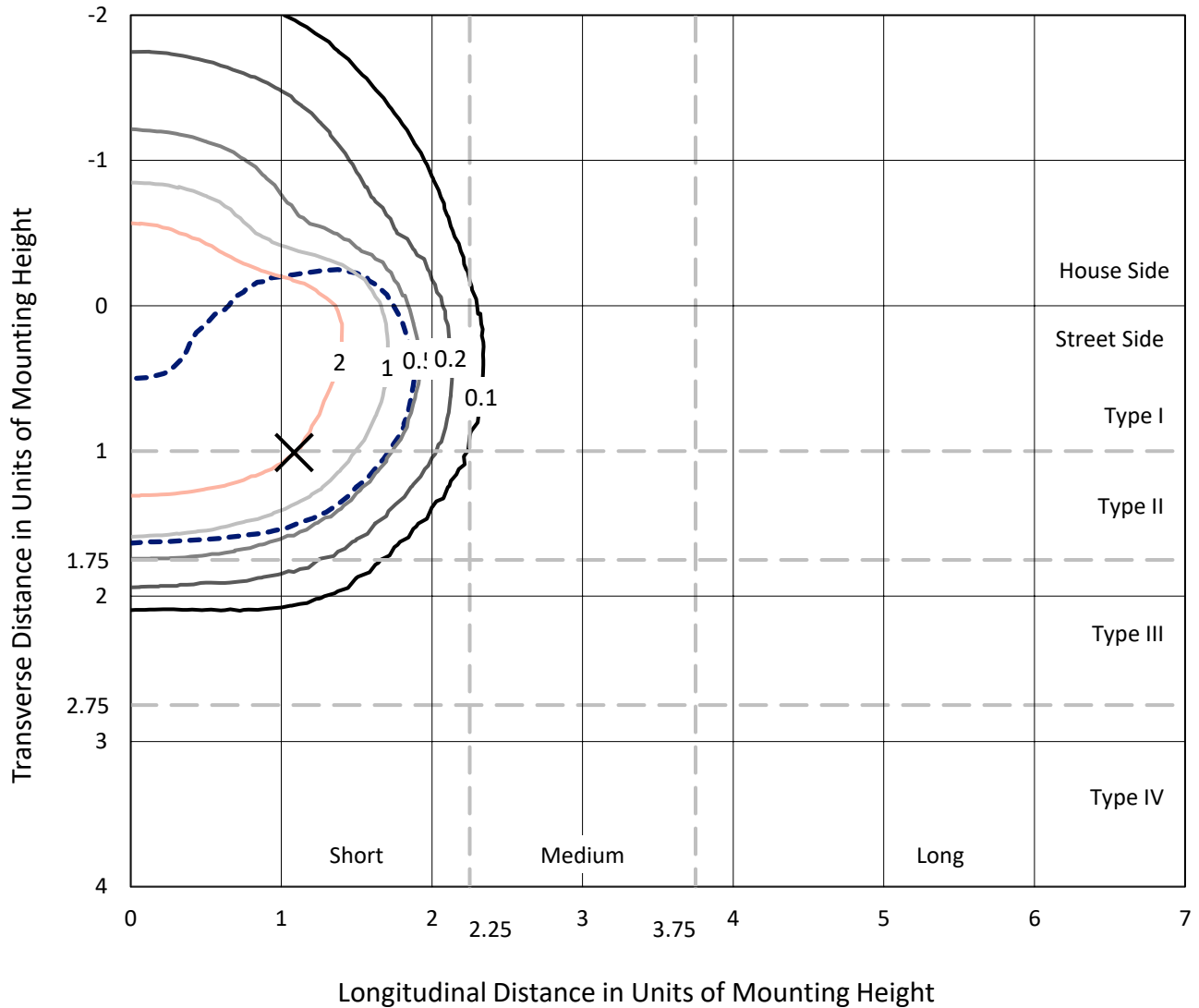
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

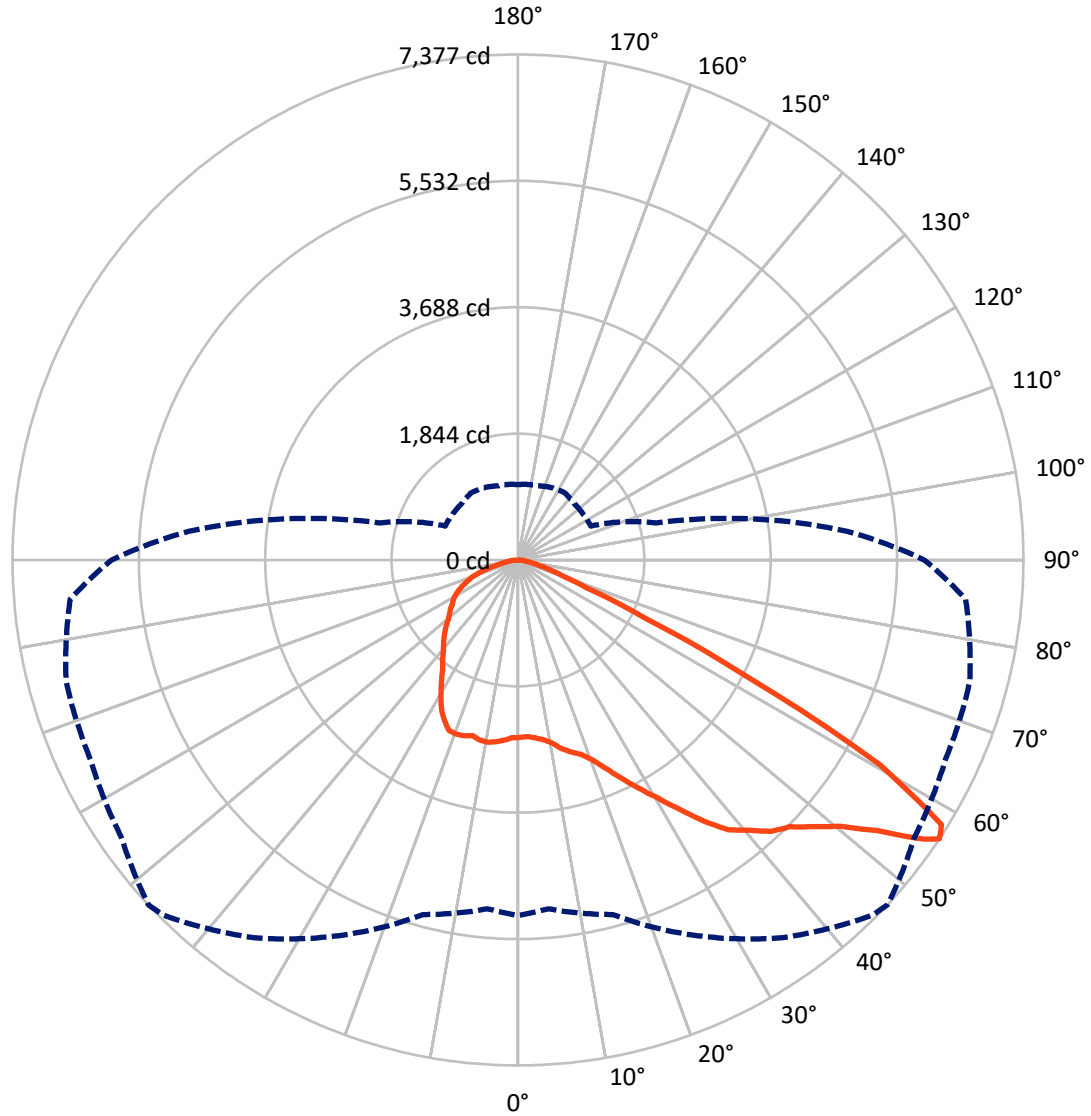
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4087.5	0.0	4087.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	8811.5	0.0	8811.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	12899.0	0.0	12899.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	2.0
10°-20°	796.4	6.2
20°-30°	1407.8	10.9
30°-40°	2114.5	16.4
40°-50°	2901.9	22.5
50°-60°	3457.3	26.8
60°-70°	1479.5	11.5
70°-80°	418.7	3.2
80°-90°	70.5	0.5
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°	12899.0	100.0
0°-180°	12899.0	100.0

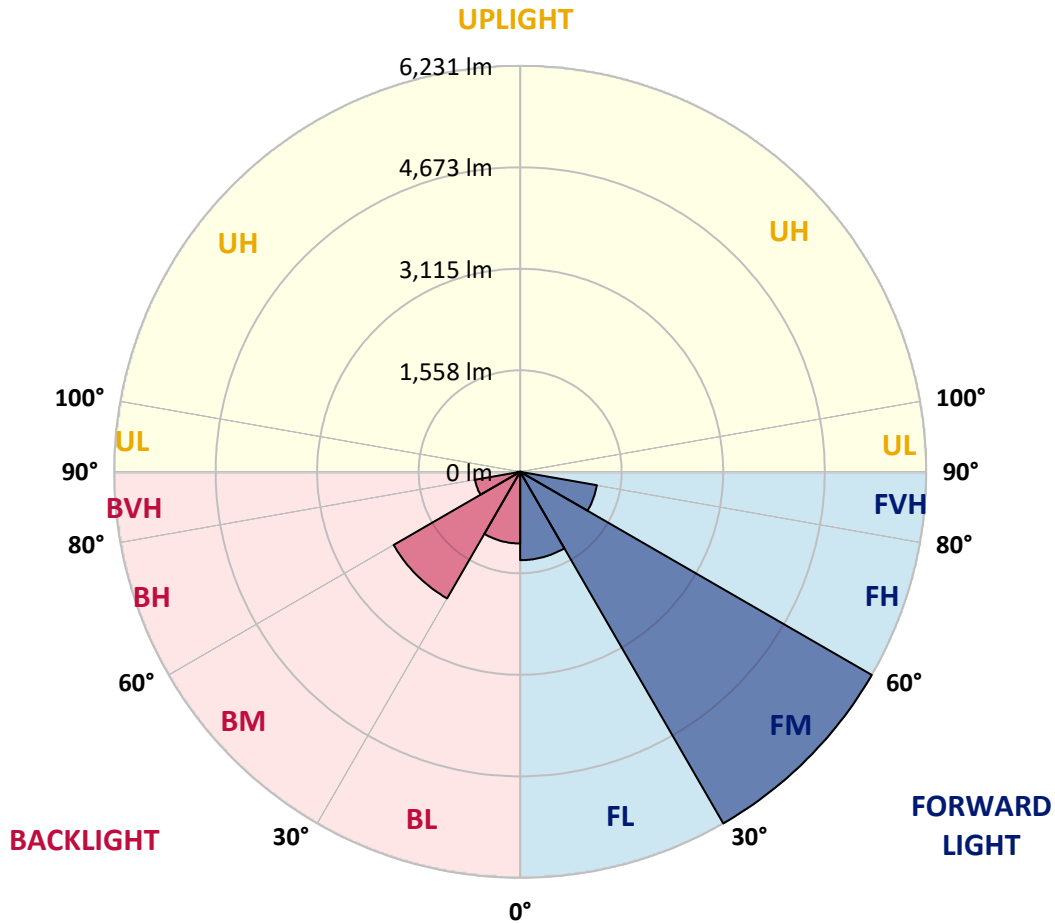


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.1	10.5			
FM (30°-60°)	6230.5	48.3			
FH (60°-80°)	1194.9	9.3			G1/1800
FVH (80°-90°)	29.9	0.2			G1/100
BL (0°-30°)	1100.5	8.5	B3/2500		
BM (30°-60°)	2243.2	17.4	B2/2500		
BH (60°-80°)	703.3	5.5	B2/1000		G2/1000
BVH (80°-90°)	40.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0
2.5°	2581.1	2576.2	2572.9	2599.2	2589.4	2591.0	2581.1	2591.0	2597.6	2582.8	2604.2
5°	2576.2	2591.0	2577.9	2586.1	2607.5	2600.9	2607.5	2627.2	2622.3	2617.3	2610.8
7.5°	2622.3	2623.9	2633.8	2637.1	2643.7	2637.1	2647.0	2665.0	2660.1	2632.1	2635.4
10°	2688.1	2691.4	2693.0	2711.1	2722.6	2724.3	2712.8	2696.3	2694.7	2732.5	2706.2
12.5°	2763.8	2755.5	2775.3	2781.8	2795.0	2809.8	2824.6	2790.1	2811.5	2813.1	2781.8
15°	2874.0	2882.2	2859.2	2859.2	2864.1	2865.7	2906.9	2890.4	2887.1	2869.0	2882.2
17.5°	3038.5	2982.5	2980.9	2957.9	2954.6	2967.7	2982.5	2995.7	3040.1	3003.9	2933.2
20°	3158.6	3171.7	3124.0	3096.1	3101.0	3130.6	3115.8	3175.0	3206.3	3147.1	3078.0
22.5°	3370.8	3326.4	3337.9	3275.4	3280.3	3311.6	3309.9	3370.8	3388.9	3295.1	3194.8
25°	3513.9	3502.4	3512.3	3462.9	3469.5	3494.2	3533.7	3634.0	3604.4	3500.8	3268.8
27.5°	3722.8	3699.8	3691.6	3673.5	3666.9	3732.7	3778.8	3885.7	3864.3	3713.0	3400.4
30°	3936.7	3921.9	3930.1	3856.1	3882.4	4022.2	4035.4	4181.8	4171.9	3905.4	3546.8
32.5°	4084.8	4093.0	4107.8	4066.7	4183.5	4295.3	4339.7	4505.9	4514.1	4236.1	3829.8
35°	4323.3	4295.3	4303.6	4351.3	4405.6	4609.5	4681.9	4792.1	4861.2	4583.2	4101.2
37.5°	4473.0	4502.6	4468.1	4543.7	4685.2	4930.3	4996.1	5109.7	5182.0	4925.4	4471.4
40°	4706.6	4658.9	4683.6	4737.9	4882.6	5201.8	5183.7	5300.5	5323.5	5216.6	4816.8
42.5°	4958.3	4935.3	4900.7	5024.1	5145.8	5377.8	5414.0	5359.7	5476.5	5501.2	5310.4
45°	5259.4	5287.3	5292.3	5295.5	5402.5	5604.8	5555.5	5507.8	5642.7	5822.0	5616.3
47.5°	5539.0	5450.2	5514.3	5603.2	5754.5	5756.2	5813.7	5700.2	5843.4	6002.9	5892.7
50°	5632.8	5590.0	5675.6	5843.4	6077.0	6101.6	6108.2	5947.0	6021.0	6147.7	5988.1
52.5°	5596.6	5581.8	5800.6	6060.5	6402.7	6527.7	6560.6	6361.6	6402.7	6345.1	6198.7
55°	5423.9	5468.3	5688.7	6218.4	6743.2	7129.8	7192.3	6940.6	6679.1	6723.5	6562.3
56°	5187.0	5109.7	5356.4	6039.1	6728.4	7325.6	7376.6	7062.4	6884.7	6827.1	6559.0
57.5°	4400.6	4300.3	4624.3	5433.7	6355.0	7251.6	7289.4	7113.4	6850.2	6733.4	6080.3
60°	2576.2	2625.6	3036.8	3747.5	4902.4	5945.4	6072.0	6200.3	6024.3	5501.2	4525.6
62.5°	1243.7	1212.4	1506.9	2148.5	2987.5	3795.2	3757.4	4117.7	4315.1	3908.7	2857.5
65°	651.5	648.2	822.5	1172.9	1641.8	1993.8	2028.4	2222.5	2494.0	2013.6	1451.0
67.5°	478.7	491.9	579.1	824.2	1056.1	1077.5	1072.6	1169.7	1196.0	1011.7	891.6
70°	375.1	381.7	445.8	626.8	786.4	704.1	689.3	700.8	778.1	811.0	771.5
72.5°	271.4	278.0	332.3	422.8	491.9	480.4	490.2	554.4	649.8	684.4	643.2
75°	181.0	185.9	215.5	258.3	291.2	314.2	332.3	406.3	495.2	514.9	495.2
77.5°	125.0	130.0	149.7	182.6	185.9	200.7	207.3	241.8	296.1	320.8	307.6
80°	70.7	70.7	80.6	93.8	115.2	134.9	138.2	166.2	190.8	207.3	210.6
82.5°	32.9	34.5	42.8	57.6	75.7	93.8	97.1	115.2	133.3	149.7	154.6
85°	16.5	18.1	24.7	34.5	46.1	55.9	54.3	55.9	59.2	55.9	57.6
87.5°	4.9	4.9	6.6	8.2	6.6	8.2	8.2	9.9	11.5	13.2	14.8
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°	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0
2.5°	2605.8	2610.8	2577.9	2609.1	2597.6	2596.0	2619.0	2615.7	2623.9	2620.6	2600.9
5°	2607.5	2596.0	2630.5	2599.2	2614.0	2645.3	2623.9	2673.3	2648.6	2665.0	2628.9
7.5°	2658.5	2661.8	2655.2	2668.3	2661.8	2676.6	2665.0	2676.6	2656.8	2658.5	2691.4
10°	2702.9	2693.0	2704.5	2688.1	2699.6	2694.7	2668.3	2660.1	2666.7	2658.5	2679.9
12.5°	2785.1	2767.0	2758.8	2739.1	2725.9	2676.6	2635.4	2612.4	2643.7	2648.6	2638.7
15°	2869.0	2870.7	2832.8	2788.4	2706.2	2632.1	2642.0	2650.2	2650.2	2663.4	2638.7
17.5°	2921.7	2921.7	2887.1	2798.3	2714.4	2671.6	2661.8	2635.4	2612.4	2609.1	2607.5
20°	3013.8	2985.8	2906.9	2796.7	2711.1	2691.4	2617.3	2554.8	2507.1	2490.7	2489.0
22.5°	3119.1	3048.4	2938.1	2799.9	2706.2	2678.2	2540.0	2446.2	2360.7	2324.5	2329.4
25°	3216.2	3102.6	2956.2	2785.1	2688.1	2553.2	2398.5	2268.6	2179.7	2150.1	2135.3
27.5°	3283.6	3160.2	2956.2	2798.3	2620.6	2413.3	2255.4	2089.3	2011.9	1992.2	1995.5
30°	3374.1	3232.6	3007.2	2770.3	2485.7	2232.4	2043.2	1934.6	1888.6	1872.1	1883.6
32.5°	3586.3	3421.8	3078.0	2702.9	2326.2	2051.4	1898.4	1837.6	1770.1	1737.2	1725.7
35°	3816.6	3601.1	3147.1	2589.4	2146.8	1886.9	1791.5	1735.6	1655.0	1618.8	1625.3
37.5°	4142.3	3831.4	3152.0	2401.8	1952.7	1794.8	1707.6	1620.4	1554.6	1498.7	1482.2
40°	4581.6	4145.6	3140.5	2204.4	1796.4	1686.2	1622.1	1513.5	1439.5	1400.0	1408.2
42.5°	4968.2	4514.1	3092.8	1980.7	1655.0	1612.2	1539.8	1432.9	1360.5	1319.4	1316.1
45°	5293.9	4785.6	3002.3	1789.9	1536.5	1529.9	1446.0	1363.8	1306.2	1268.4	1284.8
47.5°	5595.0	5004.4	2865.7	1599.0	1427.9	1441.1	1360.5	1309.5	1273.3	1238.8	1237.1
50°	5703.5	5001.1	2745.7	1441.1	1340.7	1334.2	1330.9	1276.6	1238.8	1209.1	1222.3
52.5°	5884.5	5057.0	2615.7	1332.5	1261.8	1263.4	1274.9	1235.5	1192.7	1174.6	1191.0
55°	6144.4	5065.2	2329.4	1205.9	1196.0	1207.5	1207.5	1181.2	1145.0	1130.2	1122.0
56°	5932.2	4820.1	2089.3	1172.9	1163.1	1163.1	1194.3	1164.7	1120.3	1108.8	1098.9
57.5°	5471.6	4222.9	1748.7	1133.5	1118.7	1141.7	1158.1	1126.9	1085.8	1069.3	1079.2
60°	3773.8	2857.5	1314.4	1047.9	1047.9	1085.8	1098.9	1052.9	1034.8	1033.1	1020.0
62.5°	2202.8	1664.8	1028.2	970.6	973.9	1005.2	1015.0	988.7	965.7	993.6	1006.8
65°	1168.0	993.6	881.8	888.3	890.0	914.7	957.4	955.8	954.2	962.4	964.0
67.5°	845.6	825.8	801.2	794.6	797.9	816.0	858.7	891.6	890.0	870.3	855.4
70°	753.5	725.5	710.7	712.3	699.2	720.5	755.1	776.5	738.6	715.6	705.7
72.5°	626.8	618.6	608.7	610.3	584.0	579.1	539.6	539.6	529.7	523.1	534.7
75°	478.7	475.4	480.4	472.1	444.2	414.6	391.5	370.1	337.2	324.1	317.5
77.5°	302.7	312.6	324.1	306.0	294.5	273.1	250.1	228.7	202.3	187.5	187.5
80°	205.6	213.9	222.1	218.8	205.6	185.9	167.8	144.8	126.7	115.2	113.5
82.5°	156.3	162.9	174.4	161.2	148.1	131.6	116.8	100.4	83.9	70.7	70.7
85°	55.9	64.2	70.7	77.3	82.3	83.9	72.4	59.2	47.7	37.8	36.2
87.5°	14.8	16.5	18.1	16.5	16.5	16.5	18.1	16.5	14.8	11.5	11.5
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)