

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: P529230

Luminaire Tested: **GALN-SA4B-760-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-760-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19781 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

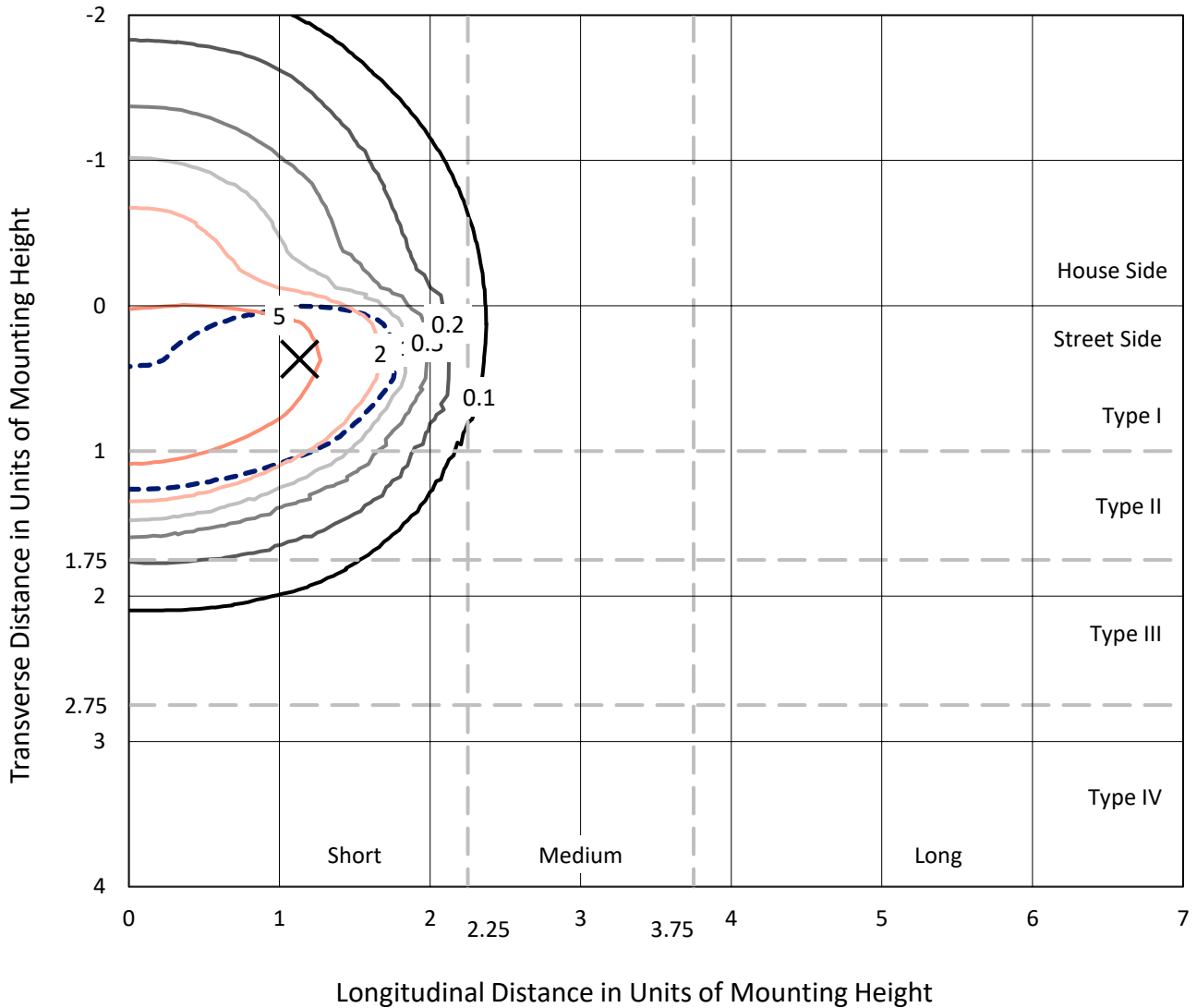
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

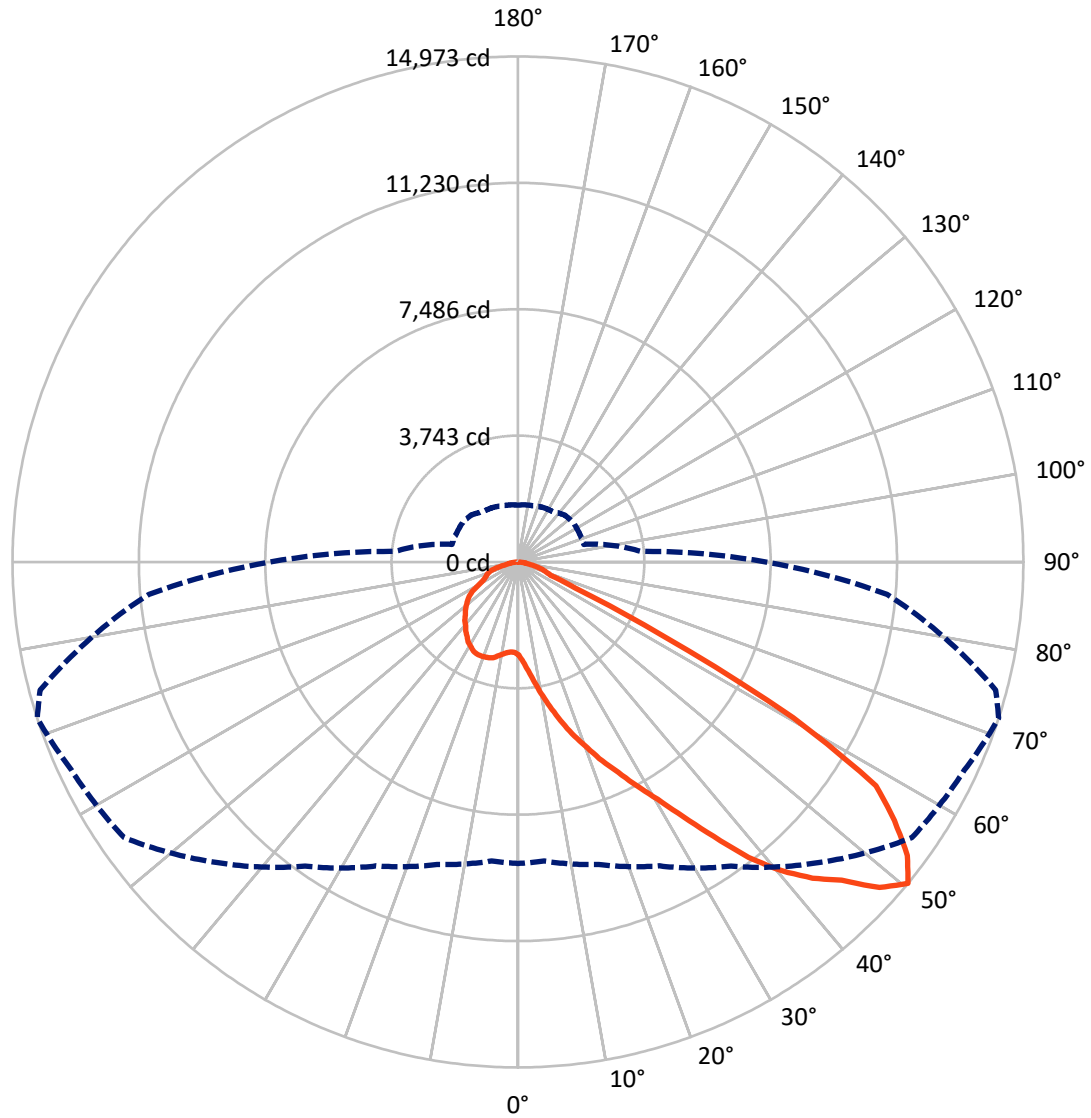
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4531.9	0.0	4531.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	15249.1	0.0	15249.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	19781.0	0.0	19781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.9	1.6
10°-20°	1210.9	6.1
20°-30°	2347.8	11.9
30°-40°	3889.4	19.7
40°-50°	5442.2	27.5
50°-60°	4591.2	23.2
60°-70°	1399.4	7.1
70°-80°	490.9	2.5
80°-90°	85.4	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°	19781.0	100.0
0°-180°	19781.0	100.0

Coefficient of Utilization

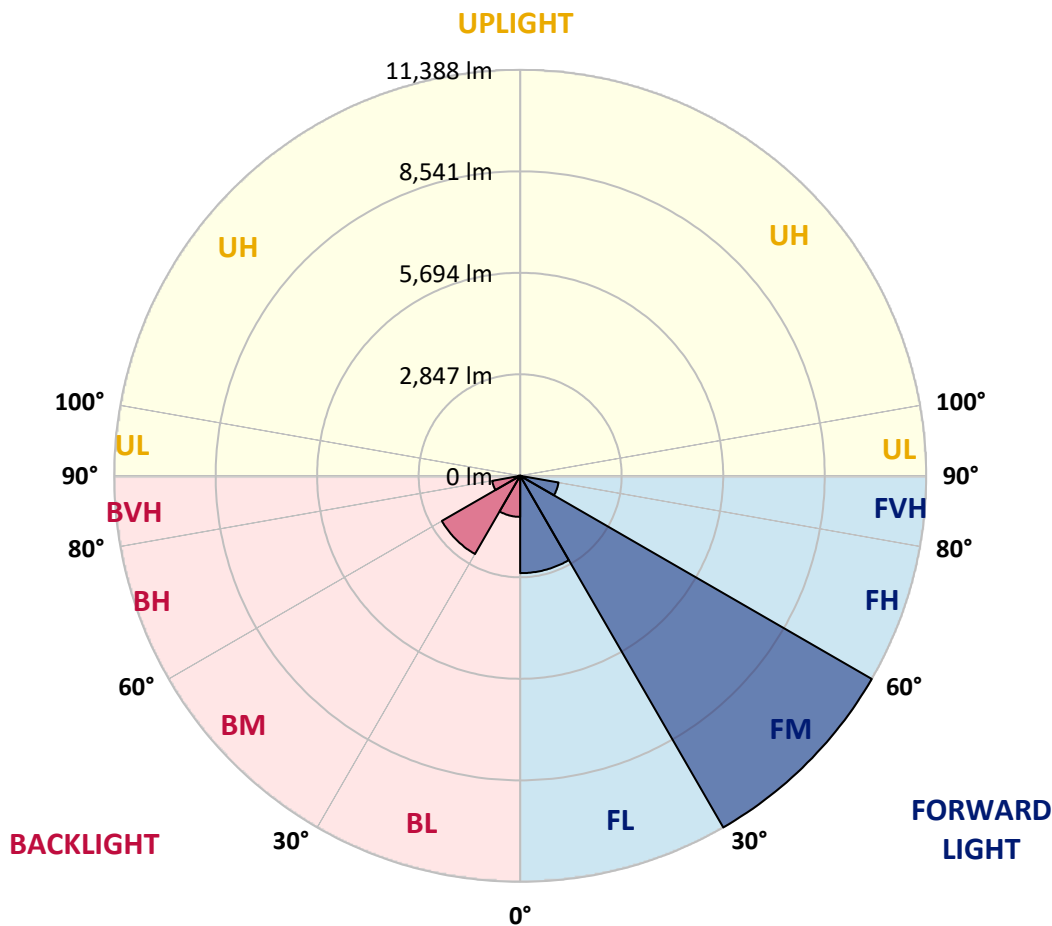


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2730.5	13.8			
FM (30°-60°)	11388.5	57.6			
FH (60°-80°)	1091.9	5.5			G1/1800
FVH (80°-90°)	38.2	0.2			G1/100
BL (0°-30°)	1152.0	5.8	B3/2500		
BM (30°-60°)	2534.3	12.8	B3/5000		
BH (60°-80°)	798.4	4.0	B2/1000		G2/1000
BVH (80°-90°)	47.1	0.2			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°	55°	65°	72°	75°	85°
0°	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7
2.5°	3541.8	3519.8	3453.7	3431.7	3353.4	3211.4	3162.5	3018.0	2956.8	2900.5	2834.5
5°	4479.3	4376.5	4369.2	4244.3	4063.2	3958.0	3644.7	3434.1	3240.8	3142.9	2961.7
7.5°	5076.6	5079.0	5079.0	4976.2	4831.8	4565.0	4283.5	3904.1	3612.8	3468.4	3160.0
10°	5644.4	5595.5	5568.6	5558.8	5460.9	5201.4	4900.3	4430.4	4031.4	3862.5	3309.3
12.5°	6045.9	6004.3	6065.4	6033.6	5962.6	5793.8	5509.8	4973.8	4474.4	4246.8	3549.2
15°	6236.8	6266.2	6315.1	6403.2	6371.4	6307.8	5994.5	5531.8	4951.7	4694.7	3762.1
17.5°	6530.5	6449.7	6508.5	6618.6	6706.8	6677.4	6498.7	5935.7	5424.1	5108.4	4048.5
20°	6736.1	6689.6	6719.0	6846.3	6912.4	7078.8	6985.8	6464.4	5877.0	5544.1	4386.3
22.5°	7323.6	7255.0	7159.6	7179.2	7203.6	7321.1	7343.2	7044.5	6403.2	6050.8	4707.0
25°	8048.1	7984.5	7871.9	7756.8	7685.8	7663.8	7739.7	7499.8	6907.5	6542.8	5052.1
27.5°	8846.1	8738.4	8667.4	8429.9	8239.0	8209.6	8172.9	8043.2	7504.7	7110.6	5441.3
30°	9622.0	9536.3	9440.9	9061.5	8863.2	8831.4	8650.2	8687.0	8153.4	7715.2	5881.9
32.5°	10209.4	10216.8	9998.9	9712.5	9526.5	9357.6	9291.5	9396.8	8985.6	8633.1	6373.9
35°	10684.3	10706.3	10498.3	10238.8	10038.1	10155.6	10126.2	10175.2	9979.4	9548.6	6946.6
37.5°	11146.9	11036.8	10814.0	10689.2	10583.9	10777.3	11027.0	11068.6	11105.3	10598.6	7612.4
40°	11222.8	11232.6	11102.9	11191.0	11058.8	11350.1	11930.2	11876.3	12025.6	11582.6	8334.5
42.5°	11115.1	11137.1	11188.5	11313.4	11631.6	11981.6	12843.2	12622.9	12804.0	12409.9	9037.0
45°	10938.9	10848.3	10911.9	11386.8	11937.5	12715.9	13677.9	13506.5	13447.8	13117.3	9874.1
47.5°	10096.8	10189.9	10388.1	10973.1	11800.5	12843.2	14270.2	14231.0	14407.3	14174.7	10635.3
50°	8929.3	8892.6	9274.4	9932.8	11000.0	12593.5	14238.4	14593.3	14972.7	14649.6	10975.6
52.5°	6687.2	6883.0	7211.0	8028.5	9551.0	11232.6	13543.2	14135.6	14444.0	14375.5	10701.4
55°	4227.2	4286.0	4484.2	5456.0	6826.7	9014.9	11609.5	12982.7	13533.4	13790.4	10449.3
57.5°	2053.6	1943.5	2185.8	2966.6	3943.3	6063.0	8953.8	11308.5	12505.4	12970.5	9901.0
60°	1072.1	1113.7	1209.2	1488.2	2038.9	3147.8	5580.8	7536.5	9365.0	10079.7	7504.7
62.5°	888.5	903.2	966.8	1106.4	1356.0	1811.3	2849.1	3674.0	4775.5	5419.2	4268.8
65°	753.9	761.2	829.8	922.8	1081.9	1275.3	1466.2	1534.7	1857.8	1906.8	1517.6
67.5°	629.1	636.4	709.8	798.0	900.8	952.2	1001.1	996.2	1032.9	1018.3	1015.8
70°	484.6	492.0	567.9	660.9	712.3	682.9	834.7	868.9	883.6	895.9	915.4
72.5°	350.0	364.7	423.5	489.5	462.6	531.2	687.8	739.2	758.8	766.1	790.6
75°	254.6	259.5	274.1	254.6	293.7	369.6	484.6	548.3	572.8	580.1	616.8
77.5°	112.6	115.0	117.5	146.9	188.5	230.1	288.8	340.2	374.5	384.3	394.1
80°	58.7	61.2	75.9	100.4	134.6	168.9	210.5	239.9	261.9	264.4	274.1
82.5°	36.7	39.2	53.8	71.0	95.5	124.8	154.2	178.7	195.8	198.3	200.7
85°	17.1	22.0	31.8	44.1	63.6	80.8	83.2	71.0	75.9	78.3	73.4
87.5°	4.9	7.3	9.8	7.3	9.8	9.8	12.2	14.7	14.7	14.7	17.1
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°	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7	2753.7
2.5°	2797.7	2775.7	2690.0	2658.2	2575.0	2589.7	2545.6	2543.2	2533.4	2530.9	2528.5
5°	2866.3	2797.7	2694.9	2616.6	2570.1	2565.2	2533.4	2533.4	2543.2	2550.5	2533.4
7.5°	2978.9	2900.5	2726.8	2653.3	2611.7	2604.4	2582.3	2565.2	2587.2	2579.9	2560.3
10°	3108.6	2971.5	2788.0	2724.3	2655.8	2638.6	2638.6	2646.0	2609.3	2621.5	2601.9
12.5°	3253.0	3069.4	2866.3	2792.8	2712.1	2702.3	2697.4	2643.5	2663.1	2653.3	2604.4
15°	3436.6	3182.0	2966.6	2841.8	2773.3	2729.2	2665.6	2655.8	2643.5	2619.1	2597.0
17.5°	3634.9	3304.4	3013.1	2856.5	2753.7	2721.9	2672.9	2621.5	2584.8	2589.7	2572.6
20°	3803.8	3417.0	3030.3	2871.2	2739.0	2677.8	2601.9	2570.1	2530.9	2528.5	2526.0
22.5°	4004.5	3568.8	3054.8	2832.0	2694.9	2631.3	2579.9	2523.6	2496.7	2462.4	2479.5
25°	4244.3	3627.5	3059.6	2810.0	2663.1	2550.5	2523.6	2462.4	2452.6	2403.7	2413.5
27.5°	4418.1	3659.3	3020.5	2741.4	2589.7	2504.0	2455.1	2411.0	2393.9	2357.2	2347.4
30°	4650.7	3708.3	2937.3	2655.8	2516.3	2420.8	2391.4	2381.6	2332.7	2293.5	2288.6
32.5°	4915.0	3740.1	2883.4	2567.7	2440.4	2366.9	2381.6	2335.1	2273.9	2239.7	2229.9
35°	5125.5	3752.4	2748.8	2467.3	2389.0	2342.5	2325.3	2315.5	2227.4	2195.6	2171.1
37.5°	5446.2	3725.4	2636.2	2396.3	2332.7	2315.5	2300.9	2234.8	2134.4	2087.9	2053.6
40°	5820.7	3718.1	2491.8	2296.0	2278.8	2298.4	2254.3	2151.5	2012.0	1960.6	1936.1
42.5°	6180.5	3769.5	2401.2	2242.1	2220.1	2227.4	2166.2	2012.0	1943.5	1914.1	1875.0
45°	6782.6	3877.2	2251.9	2158.9	2149.1	2144.2	2070.8	1909.2	1870.1	1833.3	1826.0
47.5°	7326.0	3806.2	2156.4	2073.2	2083.0	2056.1	1899.4	1848.0	1804.0	1767.3	1755.0
50°	7357.8	3637.3	2021.8	2007.1	2009.6	1963.1	1813.8	1779.5	1723.2	1698.7	1681.6
52.5°	7191.4	3360.7	1897.0	1901.9	1909.2	1833.3	1708.5	1684.0	1637.5	1603.3	1593.5
55°	6723.9	2929.9	1774.6	1794.2	1813.8	1669.3	1630.2	1569.0	1532.3	1483.3	1485.8
57.5°	5923.5	2359.6	1603.3	1635.1	1676.7	1517.6	1488.2	1412.3	1358.5	1319.3	1314.4
60°	3970.2	1679.1	1346.2	1358.5	1451.5	1387.9	1385.4	1309.5	1236.1	1201.8	1182.2
62.5°	2342.5	1282.6	1162.7	1150.4	1148.0	1184.7	1245.9	1219.0	1123.5	1057.4	1077.0
65°	1226.3	1108.8	1081.9	1040.3	1015.8	1006.0	1052.5	1064.8	1001.1	930.1	925.2
67.5°	1030.5	1030.5	1008.5	993.8	959.5	917.9	888.5	849.4	839.6	820.0	795.5
70°	937.5	962.0	954.6	920.3	891.0	844.5	768.6	704.9	643.8	621.7	636.4
72.5°	817.5	842.0	842.0	824.9	785.7	714.7	641.3	567.9	516.5	477.3	472.4
75°	629.1	641.3	670.7	651.1	599.7	555.6	479.8	403.9	354.9	318.2	310.9
77.5°	401.4	421.0	421.0	418.6	381.8	340.2	291.3	237.4	200.7	173.8	166.4
80°	266.8	279.0	288.8	279.0	254.6	222.7	186.0	149.3	122.4	100.4	95.5
82.5°	195.8	210.5	217.8	208.1	183.6	159.1	132.2	105.3	78.3	61.2	56.3
85°	75.9	78.3	88.1	105.3	102.8	100.4	80.8	58.7	44.1	31.8	29.4
87.5°	19.6	17.1	19.6	19.6	17.1	14.7	14.7	14.7	14.7	7.3	9.8
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)