

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: P652349

Luminaire Tested: **GALN-SA4B-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15878.9 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

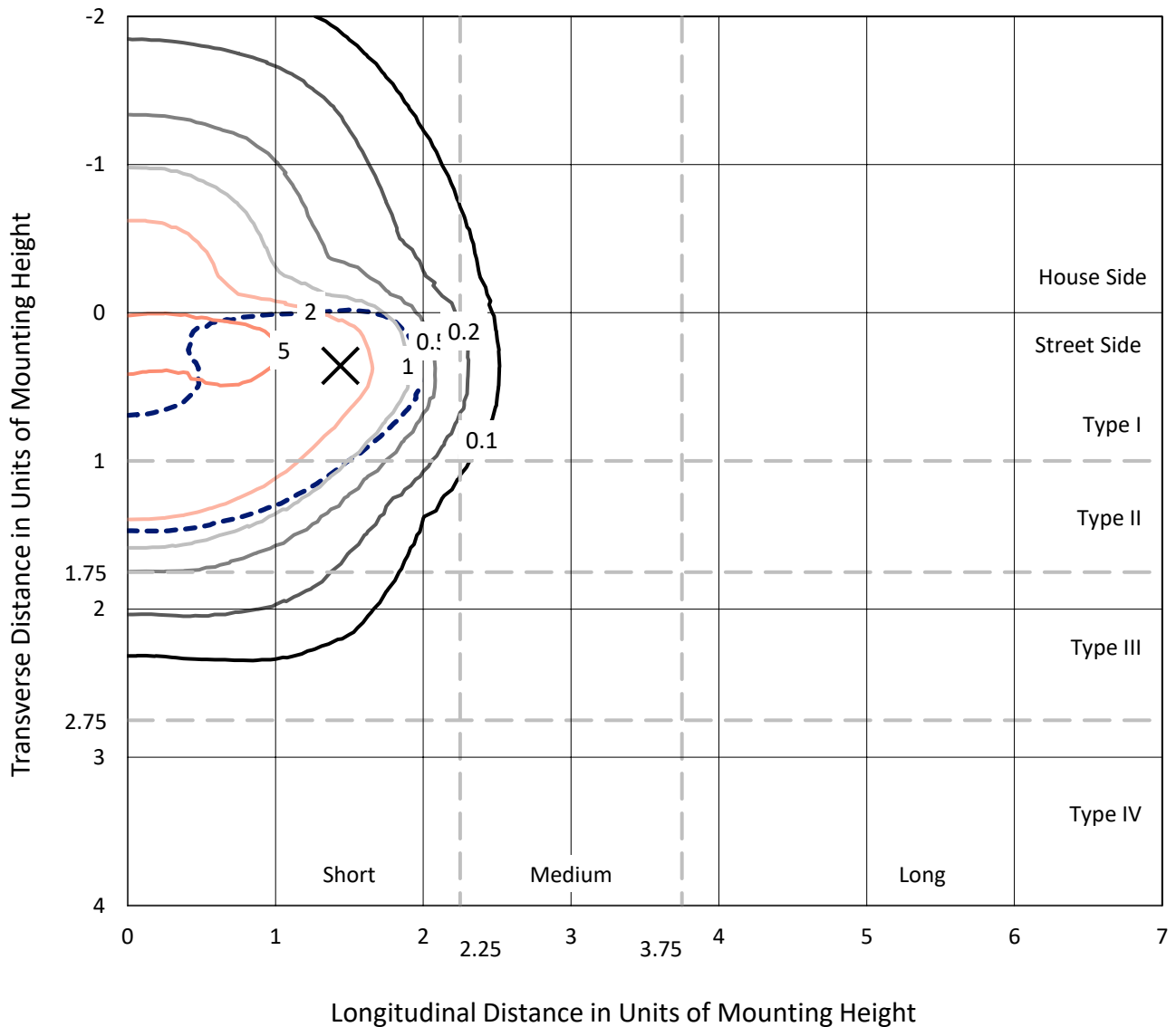
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

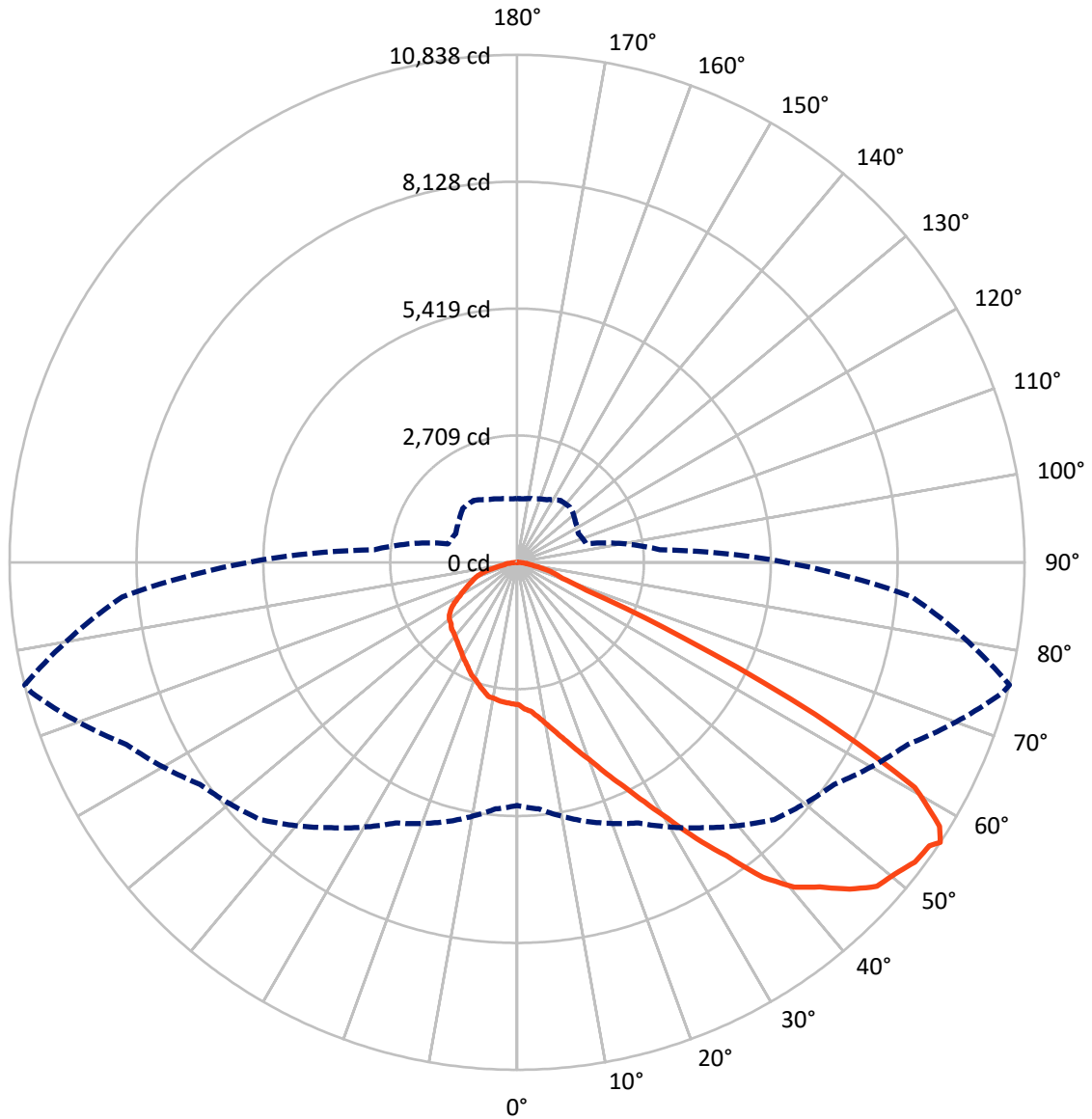
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4269.4	0.0	4269.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	11609.6	0.0	11609.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	15878.9	0.0	15878.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.3	1.9
10°-20°	946.5	6.0
20°-30°	1655.3	10.4
30°-40°	2591.7	16.3
40°-50°	3770.2	23.7
50°-60°	4143.6	26.1
60°-70°	1849.5	11.6
70°-80°	534.2	3.4
80°-90°	86.7	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°	15878.9	100.0
0°-180°	15878.9	100.0

Coefficient of Utilization

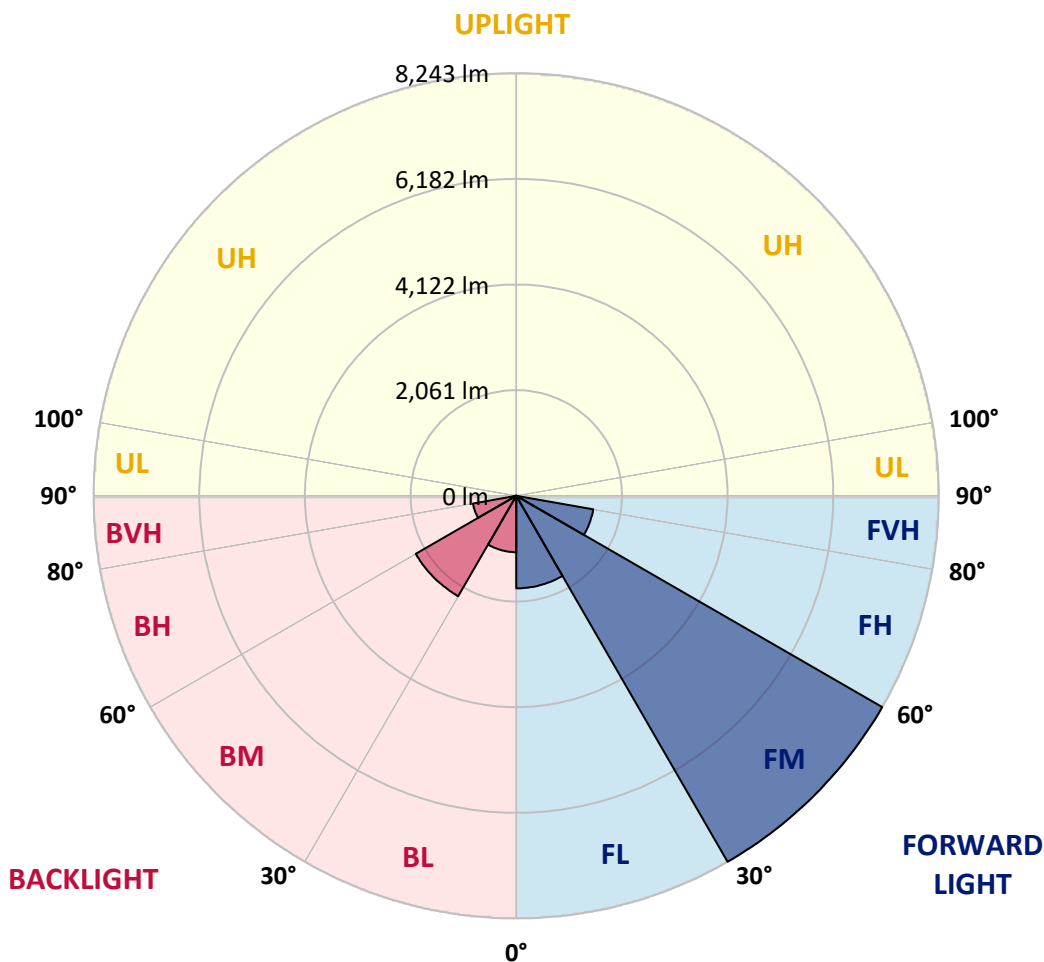


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1804.5	11.4			
FM (30°-60°)	8243.0	51.9			
FH (60°-80°)	1524.8	9.6			G1/1800
FVH (80°-90°)	37.3	0.2			G1/100
BL (0°-30°)	1098.6	6.9	B3/2500		
BM (30°-60°)	2262.4	14.2	B2/2500		
BH (60°-80°)	859.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	49.4	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°	55°	65°	75°	76°	85°
0°	3038.2	3038.2	3038.2	3038.2	3038.2	3038.2	3038.2	3038.2	3038.2	3038.2	3038.2
2.5°	3347.0	3293.4	3289.3	3274.9	3283.2	3246.1	3207.0	3155.5	3102.0	3135.0	3056.8
5°	3581.7	3509.6	3538.4	3489.1	3495.2	3445.8	3365.5	3305.8	3240.0	3200.8	3145.3
7.5°	3664.0	3670.1	3690.7	3682.5	3641.4	3641.4	3587.8	3482.8	3367.6	3344.9	3252.3
10°	3775.2	3777.2	3754.6	3760.7	3818.4	3791.6	3744.3	3699.0	3550.8	3524.0	3359.4
12.5°	3814.3	3777.2	3814.3	3847.2	3915.1	3952.2	3941.9	3909.0	3750.4	3731.9	3491.1
15°	3820.4	3797.8	3828.7	3902.7	3962.5	4118.9	4197.1	4174.5	3964.6	3966.6	3639.3
17.5°	3791.6	3822.5	3834.9	3898.6	4036.5	4182.7	4409.1	4440.0	4267.1	4240.3	3826.6
20°	3830.8	3808.0	3824.5	3882.1	4065.4	4293.9	4590.3	4794.0	4551.2	4532.7	4020.1
22.5°	3981.0	3950.1	3946.0	3983.1	4114.8	4351.5	4781.7	5148.1	4897.0	4907.2	4260.9
25°	4098.3	4114.8	4100.4	4098.3	4180.6	4438.0	5034.9	5570.1	5366.3	5306.6	4545.0
27.5°	4300.0	4339.1	4310.3	4349.4	4330.9	4567.6	5216.1	6037.4	5872.7	5792.4	4802.3
30°	4580.0	4600.6	4573.8	4573.8	4518.3	4748.8	5380.7	6525.2	6457.3	6348.2	5104.9
32.5°	4948.4	4979.3	4925.8	4895.0	4886.7	5018.4	5677.1	7006.9	7122.1	7029.5	5506.3
35°	5436.3	5417.7	5354.0	5325.1	5213.9	5432.2	6117.6	7560.6	7863.2	7698.5	5992.0
37.5°	5866.5	5837.7	5833.6	5673.0	5699.8	5878.8	6492.3	7980.5	8581.6	8534.2	6504.6
40°	6267.9	6294.6	6337.9	6247.3	6206.2	6403.7	6928.7	8301.6	9139.4	9120.9	6899.8
42.5°	6698.1	6673.4	6749.5	6673.4	6611.6	6891.6	7402.1	8524.0	9629.3	9477.0	7313.6
45°	7321.8	7243.6	7270.4	7276.5	7231.3	7334.1	7597.6	8684.5	9973.1	9956.6	7616.2
47.5°	7842.6	7844.7	7799.3	7764.4	7626.4	7729.4	7815.8	8785.3	10368.3	10341.5	7733.5
50°	8036.1	8009.3	8141.0	8217.2	8225.5	8015.5	7986.6	8840.9	10576.2	10458.8	7850.8
52.5°	7340.3	7365.1	7573.0	8025.7	8287.2	8309.8	8186.3	8956.1	10660.5	10635.9	7945.5
55°	5907.7	6027.0	6368.7	6891.6	7511.1	8192.5	8402.4	9075.6	10705.8	10685.2	8365.4
56°	5193.4	5286.0	5730.7	6140.2	6918.3	7766.4	8266.6	9203.2	10740.8	10837.5	8464.2
57.5°	4180.6	4287.7	4606.7	5072.0	5990.0	6955.4	7891.9	9046.7	10605.0	10642.0	8536.2
60°	2614.2	2624.5	3007.3	3314.0	3960.4	4903.1	6022.9	7871.4	9814.6	9761.1	7667.6
62.5°	1714.6	1716.7	2064.6	2315.7	2610.0	2826.2	3544.6	5220.2	7241.5	7146.8	5458.9
65°	1204.1	1231.0	1500.6	1836.1	1955.5	1842.3	1819.7	2752.1	4044.8	3909.0	2933.2
67.5°	881.0	883.0	1121.8	1482.1	1655.0	1401.8	1138.3	1344.2	1601.4	1597.3	1358.6
70°	582.6	607.2	790.5	1107.4	1305.1	1125.9	930.4	961.3	1019.0	1019.0	1010.7
72.5°	339.7	362.3	483.7	701.9	732.8	704.0	736.9	823.3	860.4	858.3	848.1
75°	193.5	203.8	230.5	292.3	364.3	430.2	541.4	623.7	660.8	683.4	656.7
77.5°	113.2	119.4	135.8	166.8	189.4	232.6	294.3	352.0	401.4	395.2	399.3
80°	59.7	59.7	76.2	98.8	131.7	164.7	195.5	228.5	255.2	261.4	267.6
82.5°	35.0	37.1	49.4	72.1	94.7	117.3	150.3	172.9	197.6	199.7	203.8
85°	18.5	20.6	30.9	47.3	63.8	72.1	74.1	70.0	76.2	72.1	82.3
87.5°	6.1	6.1	10.3	8.2	8.2	10.3	12.4	12.4	16.5	16.5	16.5
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°	3038.2	3038.2	3038.2	3038.2	3038.2	3038.2	3038.2	3038.2	3038.2	3038.2	3038.2
2.5°	3054.7	3054.7	3019.7	2953.8	2943.5	2916.8	2892.1	2890.0	2871.5	2855.0	2846.8
5°	3112.4	3048.5	2997.1	2937.4	2867.4	2834.4	2797.4	2756.2	2739.7	2756.2	2754.2
7.5°	3178.2	3124.7	2970.3	2859.1	2778.8	2745.9	2704.7	2661.5	2665.6	2665.6	2636.9
10°	3242.0	3170.0	2923.0	2780.9	2663.6	2638.9	2616.3	2632.8	2653.3	2657.4	2638.9
12.5°	3349.0	3186.5	2900.3	2702.7	2628.6	2575.1	2589.5	2634.8	2678.0	2665.6	2680.1
15°	3429.3	3200.8	2797.4	2622.4	2529.8	2554.5	2605.9	2636.9	2708.9	2700.6	2715.1
17.5°	3507.6	3209.1	2696.5	2515.4	2476.2	2544.2	2583.3	2671.9	2694.5	2743.8	2762.4
20°	3668.1	3225.6	2593.6	2449.5	2437.1	2515.4	2583.3	2624.5	2673.9	2717.1	2717.1
22.5°	3750.4	3217.3	2525.7	2363.0	2402.1	2451.6	2513.3	2583.3	2583.3	2624.5	2626.5
25°	3853.4	3184.4	2418.6	2321.9	2350.7	2398.0	2468.1	2443.4	2470.1	2470.1	2503.1
27.5°	3970.7	3114.4	2326.0	2247.8	2305.4	2356.9	2367.2	2350.7	2319.8	2315.7	2303.3
30°	4065.4	3027.9	2258.1	2223.1	2270.4	2299.3	2266.3	2231.3	2177.8	2173.7	2144.9
32.5°	4195.1	2920.9	2173.7	2161.4	2214.9	2217.0	2206.6	2153.1	2074.9	2041.9	2009.0
35°	4413.2	2859.1	2109.9	2128.4	2144.9	2138.7	2120.2	2062.6	1984.3	1969.9	1957.6
37.5°	4573.8	2813.9	2044.1	2066.7	2081.1	2089.3	2033.7	1969.9	1972.0	1943.1	1934.9
40°	4754.9	2785.1	1990.5	2000.8	2002.8	2029.6	1961.6	1930.8	1945.2	1926.6	1939.0
42.5°	4987.6	2793.3	1934.9	1926.6	1965.8	1955.5	1922.5	1881.4	1889.6	1834.1	1842.3
45°	5111.1	2848.9	1902.0	1864.9	1908.1	1906.1	1862.9	1823.8	1774.3	1667.3	1671.4
47.5°	5193.4	2863.3	1823.8	1799.1	1844.3	1871.1	1821.7	1731.1	1661.1	1584.9	1566.4
50°	5277.8	2890.0	1786.7	1735.2	1753.7	1817.6	1755.8	1669.4	1601.4	1533.6	1543.8
52.5°	5351.9	2941.5	1714.6	1638.5	1671.4	1741.5	1708.5	1603.5	1529.4	1473.9	1457.4
55°	5681.2	3056.8	1593.2	1494.4	1572.7	1661.1	1642.6	1515.0	1434.7	1405.9	1401.8
56°	5732.7	3060.9	1529.4	1445.0	1517.1	1634.4	1611.8	1475.9	1403.9	1358.6	1360.7
57.5°	5740.9	3011.5	1438.9	1399.8	1461.5	1595.3	1566.4	1445.0	1346.2	1305.1	1292.7
60°	5051.4	2350.7	1325.6	1300.9	1372.9	1475.9	1465.6	1360.7	1249.5	1202.1	1224.7
62.5°	3443.7	1722.9	1237.1	1233.0	1270.1	1370.9	1344.2	1249.5	1156.8	1125.9	1111.5
65°	2004.9	1307.1	1150.7	1134.2	1165.0	1218.6	1237.1	1138.3	1041.6	1021.0	1014.8
67.5°	1183.6	1080.7	1039.5	1012.7	1002.5	1035.4	1049.8	992.1	895.4	866.6	891.3
70°	990.1	961.3	963.4	918.0	893.4	870.7	858.3	806.9	726.6	689.5	679.3
72.5°	854.2	841.9	833.7	792.5	769.9	718.4	664.9	613.4	553.7	522.8	524.9
75°	652.5	648.4	652.5	631.9	592.8	551.7	502.2	436.4	391.1	352.0	360.2
77.5°	389.0	401.4	407.5	399.3	382.9	345.8	315.0	271.7	228.5	197.6	193.5
80°	267.6	277.9	288.2	277.9	261.4	234.6	201.8	168.8	137.9	121.4	117.3
82.5°	203.8	214.0	220.3	210.0	189.4	160.5	137.9	115.3	90.6	74.1	70.0
85°	74.1	84.4	82.3	98.8	107.1	102.9	88.5	68.0	51.5	37.1	35.0
87.5°	20.6	18.5	20.6	20.6	20.6	18.5	16.5	16.5	16.5	10.3	8.2
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)