

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: P647515

Luminaire Tested: **GALN-SA6D-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36123.7 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

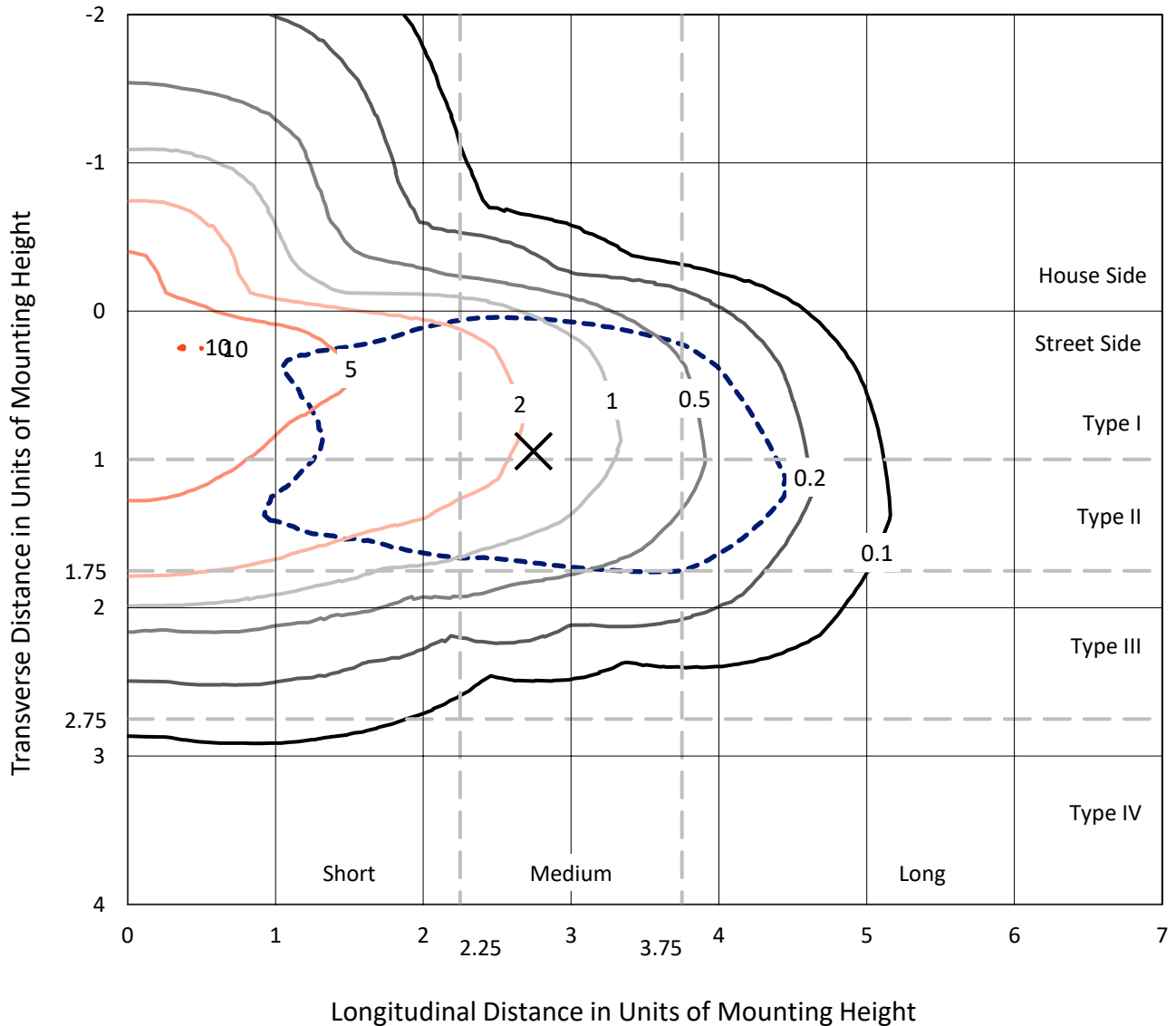
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

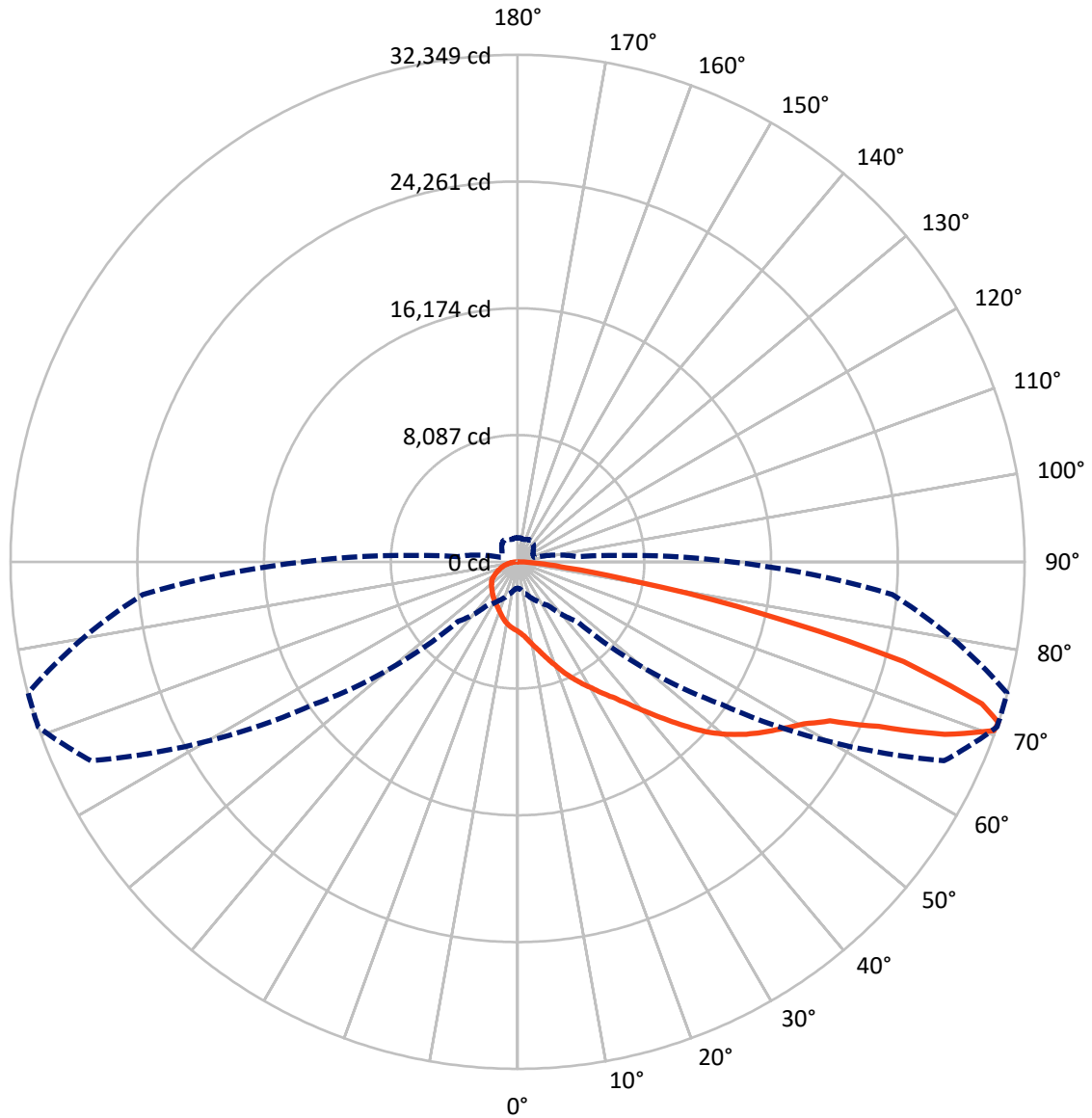
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6496.7	0.0	6496.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	29627.0	0.0	29627.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	36123.7	0.0	36123.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.2	1.2
10°-20°	1446.3	4.0
20°-30°	2527.5	7.0
30°-40°	3759.3	10.4
40°-50°	5538.8	15.3
50°-60°	7754.4	21.5
60°-70°	8673.0	24.0
70°-80°	5297.8	14.7
80°-90°	681.5	1.9
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°	36123.7	100.0
0°-180°	36123.7	100.0

Coefficient of Utilization

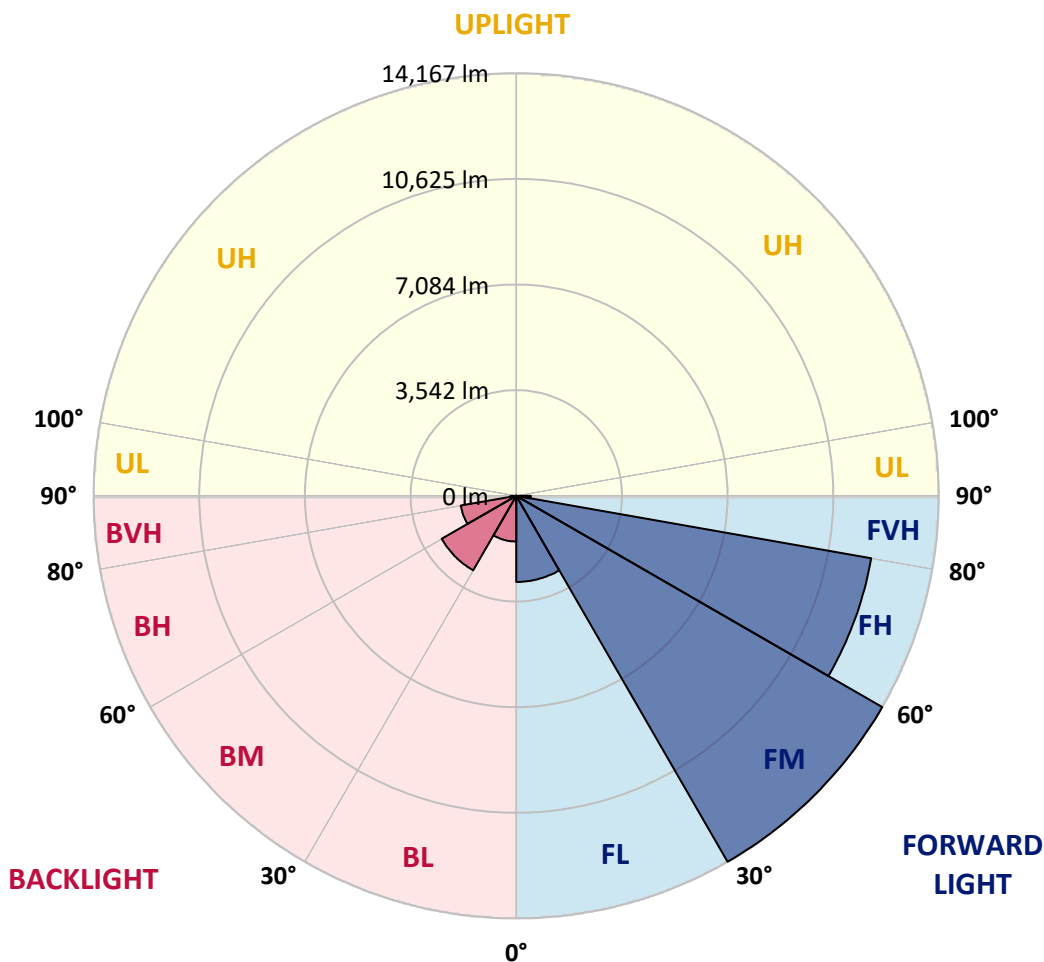


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2886.3	8.0			
FM (30°-60°)	14167.0	39.2			
FH (60°-80°)	12083.3	33.4			G5
FVH (80°-90°)	490.4	1.4			G3/500
BL (0°-30°)	1532.6	4.2	B3/2500		
BM (30°-60°)	2885.5	8.0	B3/5000		
BH (60°-80°)	1887.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	191.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4433.5	4433.5	4433.5	4433.5	4433.5	4433.5	4433.5	4433.5	4433.5	4433.5	4433.5
2.5°	4921.9	4898.1	4900.0	4866.3	4822.7	4775.0	4707.5	4647.9	4600.3	4572.5	4491.1
5°	5454.0	5430.2	5400.4	5326.9	5295.1	5178.0	5029.1	4894.1	4790.9	4733.2	4570.4
7.5°	5884.8	5878.8	5870.9	5829.2	5747.8	5585.1	5458.0	5223.7	5070.8	4961.6	4683.7
10°	6150.9	6160.8	6166.8	6174.7	6140.9	6055.6	5880.9	5585.1	5390.5	5251.5	4830.6
12.5°	6285.8	6295.8	6329.5	6403.1	6448.7	6438.8	6295.8	6005.9	5737.9	5555.2	4987.4
15°	6369.2	6385.1	6444.7	6542.0	6694.9	6792.1	6722.7	6454.7	6160.8	5944.4	5174.1
17.5°	6460.6	6478.5	6544.0	6683.0	6883.5	7094.0	7169.4	6939.1	6619.4	6361.3	5382.5
20°	6512.2	6536.0	6629.3	6812.0	7046.3	7352.1	7602.2	7481.1	7131.6	6845.8	5622.7
22.5°	6595.6	6615.5	6694.9	6889.5	7169.4	7552.6	8035.1	8009.2	7701.5	7332.2	5886.8
25°	6822.0	6853.7	6893.5	7010.6	7280.6	7757.1	8394.4	8573.1	8253.4	7840.5	6129.0
27.5°	7248.8	7274.6	7272.7	7288.6	7441.4	7933.8	8706.1	9131.0	8801.4	8354.7	6363.3
30°	7735.3	7745.2	7753.1	7717.4	7751.2	8114.5	8992.1	9683.0	9353.4	8882.8	6567.8
32.5°	8326.9	8346.8	8279.3	8187.9	8160.1	8382.5	9228.3	10234.9	10006.6	9418.9	6770.4
35°	9025.8	9077.4	8940.4	8779.6	8666.4	8767.6	9545.9	10798.7	10675.7	10103.8	7038.4
37.5°	9823.9	9887.5	9760.4	9444.7	9283.9	9311.7	9960.9	11495.7	11521.5	10884.2	7437.4
40°	10477.2	10560.6	10564.5	10117.8	9873.6	9905.3	10487.0	12246.1	12542.0	11849.1	7908.0
42.5°	10908.0	10989.4	11074.8	10812.7	10556.6	10737.2	11100.6	13060.2	13689.6	13020.5	8565.2
45°	11380.5	11454.0	11501.6	11382.5	11239.6	11708.1	11841.2	13925.8	14912.6	14328.9	9283.9
47.5°	11928.5	12009.9	12055.5	11942.4	11888.8	12559.9	12639.3	14733.9	16219.0	15599.6	10078.1
50°	12659.2	12720.7	12696.8	12625.4	12613.4	13213.0	13405.7	15490.3	17297.1	16967.5	10902.0
52.5°	13568.5	13641.9	13667.7	13566.5	13520.8	13679.6	14023.1	16179.3	18277.9	18142.9	11781.6
55°	14118.4	14235.6	14628.6	14787.5	14896.7	14283.2	14688.2	16939.7	19157.4	19381.8	12726.6
57.5°	13413.6	13564.5	14444.0	15238.2	16264.6	15792.2	15631.3	17733.9	20037.0	20583.0	13858.3
60°	11694.2	11727.9	12861.6	14324.9	16389.8	17731.9	17598.9	18996.6	20990.0	21794.1	15349.4
62.5°	8112.5	8184.0	9524.1	11859.0	14845.1	18430.8	20946.3	21176.6	22356.0	23606.8	17535.4
65°	4183.3	4090.0	5311.0	7453.3	11191.9	16770.9	23658.4	25185.2	25318.2	26442.0	20612.8
67.5°	2575.1	2616.8	3188.6	4352.1	6617.4	12188.6	23374.5	30083.3	29382.4	29922.5	23469.8
70°	1933.8	1985.5	2378.5	2978.1	4034.4	6968.9	18798.1	31270.6	32249.4	32110.4	24339.4
71°	1681.6	1735.3	2144.2	2710.1	3389.1	5378.5	15837.8	30027.7	32348.6	32324.8	24011.8
72.5°	1433.5	1467.3	1786.9	2295.1	2857.0	3770.3	11898.7	26930.4	30968.8	31761.0	22842.4
75°	1125.7	1151.6	1294.5	1751.2	2249.5	2315.0	6385.1	20189.9	25435.4	26944.3	19016.5
77.5°	917.3	935.1	1008.6	1300.5	1735.3	1640.0	3349.4	13141.6	15935.1	17453.9	11201.8
80°	728.7	748.5	792.2	881.5	1300.5	1169.4	1598.3	6659.2	7697.5	7681.6	4471.2
82.5°	565.9	571.8	623.4	647.2	889.5	829.9	865.7	2819.3	3123.1	3226.4	1614.2
85°	357.4	375.2	551.9	496.3	532.1	486.4	426.9	1119.8	1379.9	1360.0	645.3
87.5°	109.2	115.2	186.7	210.5	236.2	212.4	156.8	329.6	403.0	436.8	160.8
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°	4433.5	4433.5	4433.5	4433.5	4433.5	4433.5	4433.5	4433.5	4433.5	4433.5	4433.5
2.5°	4459.3	4437.4	4360.0	4296.5	4236.9	4171.4	4115.8	4099.9	4086.0	4080.1	4078.1
5°	4501.0	4435.5	4282.5	4157.5	4058.2	3966.9	3909.3	3883.5	3857.7	3857.7	3865.7
7.5°	4560.5	4441.4	4205.2	4018.5	3893.5	3808.0	3766.4	3762.4	3768.3	3774.3	3776.3
10°	4626.0	4437.4	4092.0	3859.7	3748.5	3708.8	3710.8	3744.5	3776.3	3800.1	3804.1
12.5°	4689.6	4413.6	3958.9	3710.8	3639.3	3647.2	3702.8	3778.3	3839.8	3873.6	3875.5
15°	4761.0	4375.9	3798.1	3569.8	3546.0	3607.5	3710.8	3825.9	3919.2	3974.8	3980.8
17.5°	4820.6	4312.4	3629.4	3432.8	3462.6	3575.7	3718.7	3867.6	3980.8	4050.3	4062.2
20°	4888.1	4230.9	3454.7	3301.8	3387.2	3540.0	3702.8	3863.6	3980.8	4048.3	4064.2
22.5°	4941.7	4115.8	3287.9	3194.6	3319.6	3496.3	3649.2	3778.3	3873.6	3909.3	3933.2
25°	4963.6	3970.8	3131.1	3107.2	3266.0	3424.8	3528.1	3601.6	3631.3	3627.4	3637.3
27.5°	4951.7	3804.1	2996.0	3037.7	3198.6	3313.7	3365.3	3359.4	3305.7	3256.1	3279.9
30°	4902.0	3605.6	2882.8	2966.2	3111.2	3174.7	3166.8	3089.3	2988.1	2894.8	2900.7
32.5°	4812.7	3391.1	2777.6	2884.8	2988.1	3015.9	2962.2	2861.0	2716.1	2594.9	2577.1
35°	4737.2	3186.7	2684.3	2791.6	2865.0	2851.1	2799.5	2668.4	2537.4	2430.2	2412.3
37.5°	4725.3	3011.9	2594.9	2686.3	2728.0	2708.2	2644.6	2533.4	2485.8	2404.4	2394.4
40°	4788.8	2888.8	2503.6	2575.1	2594.9	2579.0	2509.6	2446.1	2489.7	2469.9	2469.9
42.5°	4961.6	2823.3	2422.2	2463.9	2479.8	2491.7	2442.1	2388.5	2442.1	2350.7	2321.0
45°	5235.6	2825.3	2348.8	2354.7	2402.4	2444.1	2410.3	2330.9	2303.1	2120.4	2084.7
47.5°	5638.6	2892.8	2289.2	2251.5	2336.9	2406.3	2358.7	2243.5	2120.4	1999.3	1977.5
50°	6109.2	3013.9	2235.6	2144.2	2249.5	2358.7	2322.9	2187.9	2060.9	1987.4	1973.6
52.5°	6631.4	3166.8	2170.1	2025.2	2142.3	2336.9	2330.9	2180.0	2005.3	1955.6	1943.7
55°	7276.6	3317.6	2088.7	1886.2	2047.0	2319.0	2309.1	2114.5	1993.4	1957.7	1953.7
57.5°	8027.1	3536.0	1971.5	1745.2	1937.8	2245.5	2223.7	2074.8	1953.7	1927.8	1925.9
60°	9236.3	3875.5	1804.7	1616.1	1826.6	2116.4	2144.2	2007.3	1890.2	1884.2	1882.2
62.5°	10826.5	4352.1	1632.0	1483.1	1697.5	1949.7	2029.1	1915.9	1822.6	1852.4	1856.4
65°	13022.5	4753.1	1453.3	1369.9	1554.6	1788.8	1919.9	1830.6	1747.2	1804.7	1804.7
67.5°	14453.9	4761.0	1290.5	1252.8	1409.6	1653.9	1804.7	1729.3	1649.9	1747.2	1751.2
70°	14156.2	4171.4	1155.6	1129.7	1268.7	1508.9	1677.7	1618.1	1526.8	1614.2	1582.4
71°	13675.6	3843.8	1101.9	1082.0	1213.1	1439.5	1618.1	1568.5	1477.1	1534.8	1516.9
72.5°	12909.3	3337.5	1014.5	1018.5	1129.7	1352.1	1534.8	1483.1	1391.8	1423.6	1417.6
75°	10912.0	2914.6	867.6	885.5	970.8	1203.2	1368.0	1328.3	1234.9	1234.9	1229.0
77.5°	6822.0	2037.1	720.7	730.6	824.0	1030.4	1175.4	1141.6	1052.3	1022.5	1014.5
80°	2545.3	1052.3	563.8	575.7	633.4	812.0	972.9	941.1	849.8	816.0	784.3
82.5°	962.9	528.1	415.0	405.0	466.6	619.4	762.4	724.7	653.2	571.8	547.9
85°	363.3	262.1	254.2	246.2	274.0	367.3	472.5	464.6	389.2	331.6	325.6
87.5°	95.3	85.3	99.3	73.4	77.4	69.5	71.5	29.8	13.9	6.0	4.0
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)