

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: P459204

Luminaire Tested: **GALN-SA6D-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43730 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

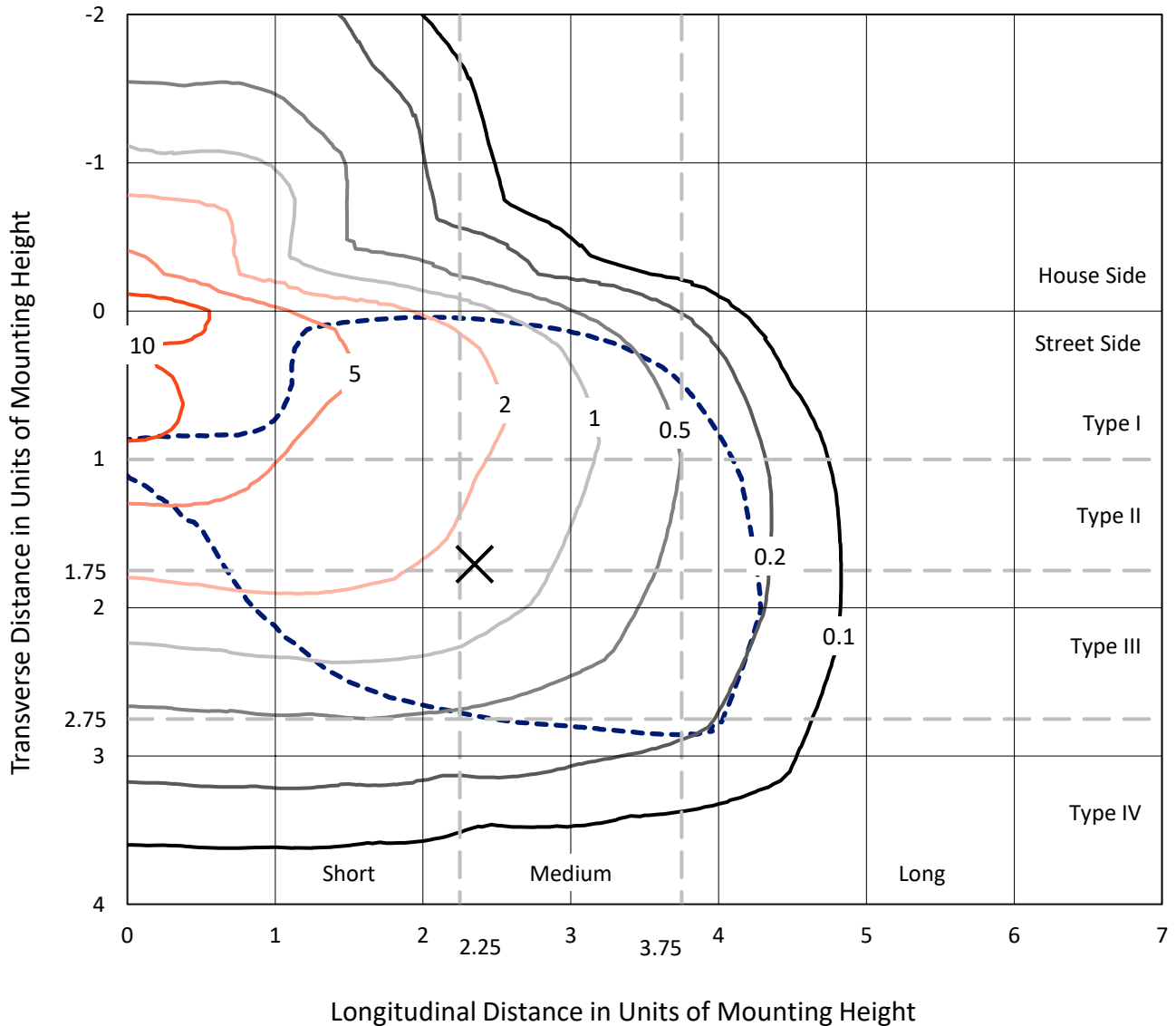
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

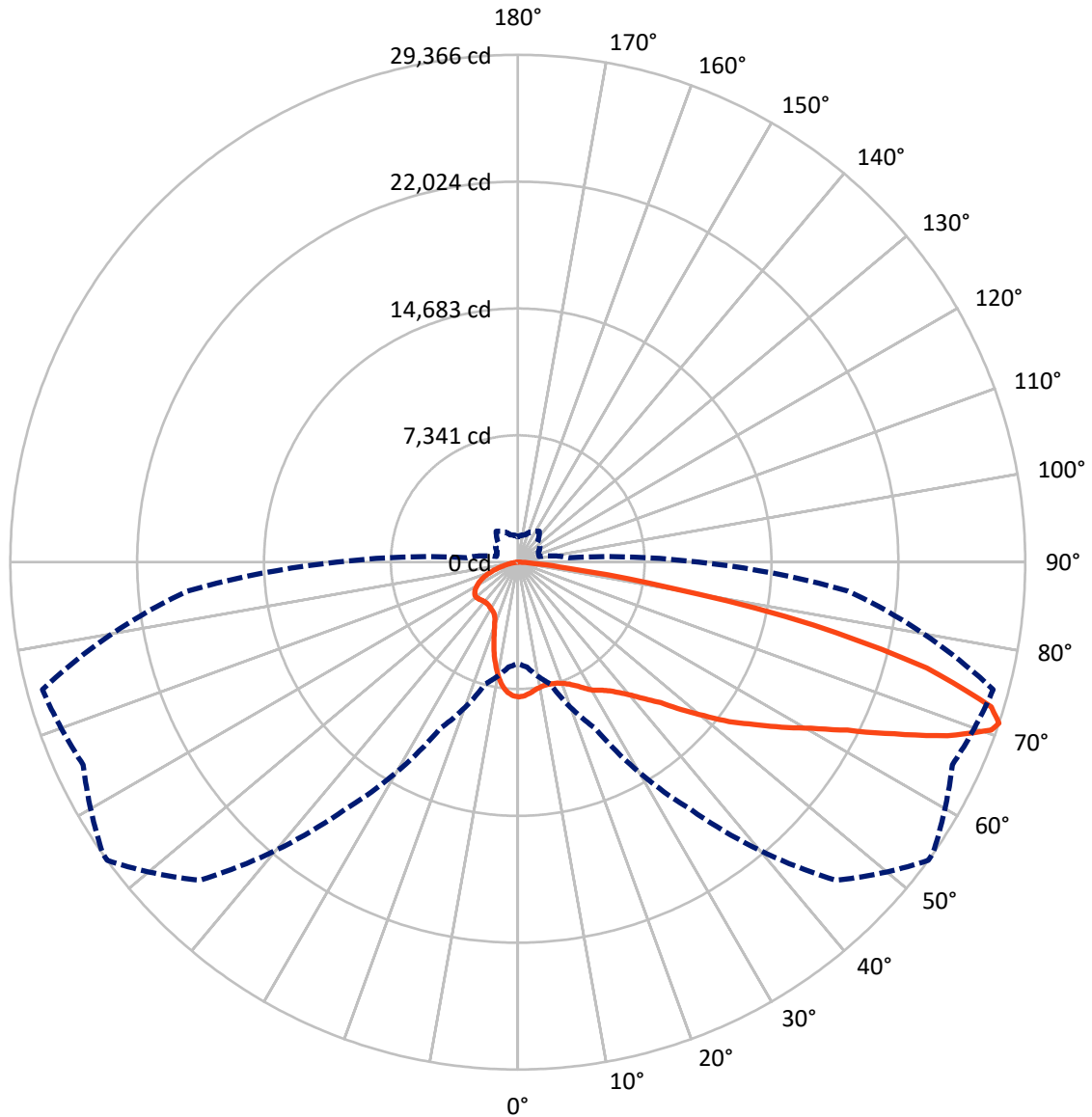
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7895.2	0.0	7895.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	35834.8	0.0	35834.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	43730.0	0.0	43730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.3	1.6
10°-20°	1835.9	4.2
20°-30°	3056.8	7.0
30°-40°	4520.1	10.3
40°-50°	6366.7	14.6
50°-60°	8525.3	19.5
60°-70°	10745.4	24.6
70°-80°	7339.1	16.8
80°-90°	645.4	1.5
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°	43730.0	100.0
0°-180°	43730.0	100.0

Coefficient of Utilization



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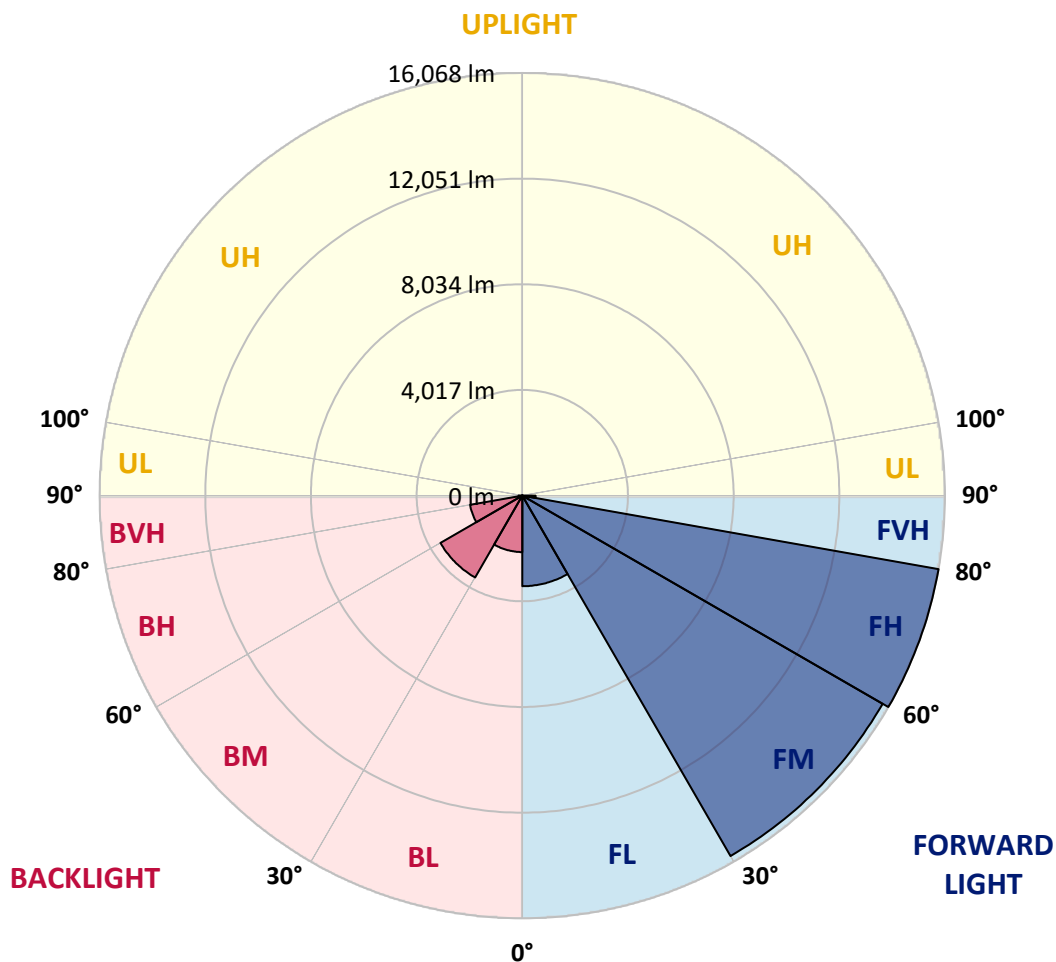
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3442.3	7.9			
FM	(30°-60°)	15819.9	36.2			
FH	(60°-80°)	16068.1	36.7			G5
FVH	(80°-90°)	504.5	1.2			G4/750
BL	(0°-30°)	2145.8	4.9	B3/2500		
BM	(30°-60°)	3592.1	8.2	B3/5000		
BH	(60°-80°)	2016.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	140.9	0.3			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7802.1	7802.1	7802.1	7802.1	7802.1	7802.1	7802.1	7802.1	7802.1	7802.1	7802.1
2.5°	7537.5	7573.0	7582.4	7606.0	7655.6	7695.8	7735.9	7731.2	7787.9	7811.5	7832.8
5°	7202.1	7211.5	7247.0	7294.2	7381.6	7492.6	7601.3	7603.7	7743.0	7854.0	7908.4
7.5°	6956.4	6987.1	7010.8	7060.4	7152.5	7273.0	7445.4	7459.6	7707.6	7927.3	8043.0
10°	6795.8	6831.2	6857.2	6918.6	7010.8	7145.4	7332.0	7358.0	7681.6	8043.0	8246.2
12.5°	6649.4	6684.8	6708.4	6788.7	6909.2	7074.5	7284.8	7315.5	7691.1	8177.7	8468.2
15°	6739.1	6767.5	6758.0	6781.6	6862.0	7050.9	7303.7	7334.4	7726.5	8307.6	8687.9
17.5°	7138.3	7161.9	7084.0	6994.2	6956.4	7095.8	7362.7	7395.8	7797.4	8442.2	8912.3
20°	7726.5	7790.3	7620.2	7419.4	7237.5	7256.4	7485.6	7521.0	7896.6	8576.9	9141.4
22.5°	8491.8	8539.1	8331.2	8000.5	7665.1	7492.6	7669.8	7691.1	8045.4	8751.7	9391.8
25°	9391.8	9420.1	9132.0	8706.8	8222.5	7896.6	7922.5	7960.3	8291.0	8950.1	9613.8
27.5°	10265.8	10355.5	10022.5	9502.8	8865.0	8321.7	8269.8	8293.4	8558.0	9061.1	9767.4
30°	11302.7	11295.7	10943.7	10341.4	9524.1	8784.7	8598.1	8593.4	8702.0	9115.4	9878.4
32.5°	12129.5	12226.3	11881.5	11224.8	10277.6	9264.2	8824.9	8815.4	8813.1	9209.9	10043.7
35°	13069.6	13083.8	12767.3	12105.9	11092.5	9866.6	9141.4	9094.2	9039.8	9413.0	10268.1
37.5°	13910.5	13976.7	13686.1	12944.4	11893.3	10492.5	9576.0	9545.3	9380.0	9765.0	10627.2
40°	14567.2	14616.8	14442.0	13735.7	12682.2	11168.1	10128.8	10072.1	9871.3	10341.4	11106.7
42.5°	14782.1	14883.7	14952.2	14605.0	13589.3	11968.9	10809.1	10738.2	10584.7	11215.3	11659.4
45°	14798.7	14959.3	15320.7	15337.2	14501.0	12927.9	11602.7	11553.1	11541.3	12335.0	12436.6
47.5°	14673.5	14836.5	15443.5	15771.9	15313.6	13896.3	12748.4	12670.4	12677.5	13719.2	13308.2
50°	14371.1	14564.8	15301.8	16050.6	15949.0	14902.6	13957.8	13931.8	14078.2	15299.4	14212.9
52.5°	13801.9	14035.7	15155.4	16225.4	16421.5	15769.5	15332.5	15259.3	15630.1	17014.3	15202.6
55°	12226.3	12578.3	14619.2	16322.2	16870.3	16598.6	16570.3	16702.5	17193.9	18885.1	16291.5
57.5°	11404.3	11668.9	13454.6	16338.8	17437.2	17562.4	18015.9	18049.0	18908.8	20871.7	17522.2
60°	10955.5	11189.4	12816.9	16230.1	18228.5	18755.2	19494.6	19612.7	20583.5	23023.6	18797.7
62.5°	10563.4	10764.2	12434.2	15854.5	19121.4	20524.5	21410.2	21466.9	22485.0	25399.9	20056.8
65°	9639.8	9868.9	11664.1	15479.0	19891.4	22735.4	23951.9	23885.7	24509.3	27450.2	20845.7
67.5°	8395.0	8685.5	10225.6	14182.2	20271.7	25151.8	26814.8	26732.1	26507.7	28794.2	21072.5
70°	6805.3	6961.2	8385.5	11940.5	18752.9	26420.3	29075.3	28987.9	27745.5	28971.4	20000.1
71°	5855.7	6099.0	7301.3	10605.9	17489.1	26032.9	29365.9	29342.2	27747.8	28482.4	19192.2
72.5°	4570.7	4719.5	5782.5	8217.8	14864.8	23831.4	28647.8	28737.5	27145.5	27124.2	17526.9
75°	2891.2	2957.4	3628.2	4837.6	8156.4	16877.3	24455.0	24698.3	24103.1	22201.6	13034.2
77.5°	1679.5	1764.5	2173.1	2851.1	3524.3	9160.3	17498.6	17763.1	16747.4	12224.0	5336.0
80°	977.9	1072.4	1431.4	1655.8	1618.1	3399.1	8909.9	9361.1	7251.7	3087.3	1497.6
82.5°	543.3	607.1	1006.3	1008.6	862.2	1110.2	2803.8	2933.8	2069.2	1244.8	611.8
85°	394.5	446.4	649.6	588.2	413.4	477.1	975.6	1022.8	836.2	524.4	198.4
87.5°	139.4	198.4	356.7	283.5	113.4	99.2	281.1	229.1	212.6	146.5	44.9
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°	7802.1	7802.1	7802.1	7802.1	7802.1	7802.1	7802.1	7802.1	7802.1	7802.1	7802.1
2.5°	7844.6	7849.3	7825.7	7783.2	7740.7	7686.3	7624.9	7577.7	7556.4	7554.1	7551.7
5°	7929.6	7941.4	7851.7	7719.4	7573.0	7393.4	7239.9	7065.1	7020.2	6949.4	6970.6
7.5°	8066.6	8059.6	7882.4	7601.3	7258.8	6878.5	6557.2	6370.6	6176.9	6122.6	6125.0
10°	8262.7	8217.8	7882.4	7360.4	6788.7	6224.2	5775.4	5491.9	5338.4	5210.8	5163.6
12.5°	8470.6	8357.2	7806.8	7022.6	6184.0	5491.9	5010.1	4627.4	4528.2	4424.2	4426.6
15°	8669.0	8480.0	7658.0	6547.8	5532.1	4710.1	4242.4	4013.2	3982.5	3994.3	3992.0
17.5°	8848.5	8567.4	7431.2	6018.7	4771.5	4039.2	3791.2	3807.7	3890.4	3949.5	3956.5
20°	9030.4	8619.4	7093.4	5310.0	4053.4	3632.9	3642.4	3772.3	3897.5	3977.8	3989.6
22.5°	9202.8	8643.0	6696.6	4625.0	3533.7	3460.5	3599.9	3739.2	3862.1	3940.0	3951.8
25°	9316.2	8588.7	6134.4	3909.3	3278.6	3399.1	3545.5	3663.6	3767.6	3847.9	3866.8
27.5°	9346.9	8413.9	5437.6	3330.6	3160.5	3340.0	3474.7	3562.1	3642.4	3718.0	3732.1
30°	9330.4	8156.4	4672.3	2990.4	3092.0	3271.5	3375.5	3439.2	3536.1	3595.1	3607.0
32.5°	9304.4	7856.4	3873.9	2808.6	3035.3	3207.8	3269.2	3325.9	3323.5	3299.9	3316.4
35°	9313.8	7497.4	3226.7	2699.9	2985.7	3160.5	3212.5	3141.6	2938.5	2929.0	2919.6
37.5°	9363.4	7143.0	2756.6	2624.3	2959.7	3153.4	3181.8	2855.8	2676.3	2593.6	2572.3
40°	9491.0	6729.7	2447.2	2567.6	2957.4	3207.8	3042.4	2711.7	2366.8	2206.2	2194.4
42.5°	9661.1	6323.4	2258.2	2532.2	2985.7	3290.4	2985.7	2508.6	2133.0	2038.5	2024.3
45°	9913.8	5858.1	2154.3	2515.7	3028.2	3321.1	2966.8	2359.8	2038.5	1962.9	1962.9
47.5°	10199.6	5414.0	2097.6	2503.8	3082.6	3299.9	2799.1	2312.5	1993.6	2003.1	2048.0
50°	10483.1	5029.0	2055.0	2477.9	3129.8	3288.1	2730.6	2310.2	2005.4	2125.9	2206.2
52.5°	10811.4	4757.3	2003.1	2435.3	3129.8	3212.5	2709.4	2357.4	2038.5	2073.9	2109.4
55°	11208.3	4672.3	1936.9	2343.2	3073.1	3023.5	2697.5	2425.9	2062.1	1979.5	1993.6
57.5°	11732.6	4809.3	1873.2	2227.5	2943.2	2827.5	2692.8	2444.8	2007.8	1939.3	1925.1
60°	12342.1	5080.9	1854.3	2109.4	2766.0	2659.7	2664.5	2390.5	1932.2	1861.3	1873.2
62.5°	12769.6	5243.9	1842.5	2019.6	2572.3	2475.5	2596.0	2324.3	1899.1	1837.7	1849.5
65°	12769.6	5045.5	1733.8	1882.6	2322.0	2253.5	2513.3	2241.7	1856.6	1785.8	1774.0
67.5°	12285.4	4466.8	1568.4	1677.1	2045.6	2000.7	2397.6	2142.4	1792.8	1738.5	1710.2
70°	11024.0	3387.3	1360.6	1436.2	1696.0	1736.2	2248.7	2007.8	1686.6	1620.4	1577.9
71°	10468.9	2950.3	1273.2	1313.3	1561.4	1620.4	2177.9	1951.1	1639.3	1544.8	1469.2
72.5°	9398.9	2484.9	1140.9	1157.4	1334.6	1440.9	2029.1	1842.5	1549.6	1414.9	1329.9
75°	7140.7	1814.1	918.9	909.4	987.4	1143.3	1717.3	1641.7	1358.2	1176.3	1126.7
77.5°	3084.9	987.4	687.4	694.5	670.8	866.9	1351.1	1410.2	1164.5	956.7	911.8
80°	935.4	569.3	470.1	479.5	448.8	581.1	951.9	1105.5	935.4	744.1	682.7
82.5°	479.5	340.1	321.2	316.5	285.8	328.3	576.4	755.9	668.5	465.3	411.0
85°	207.9	181.9	158.3	153.5	134.6	118.1	205.5	377.9	354.3	259.8	248.0
87.5°	52.0	47.2	30.7	28.3	16.5	2.4	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)