

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: P459345

Luminaire Tested: **GALN-SA8A-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35058 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

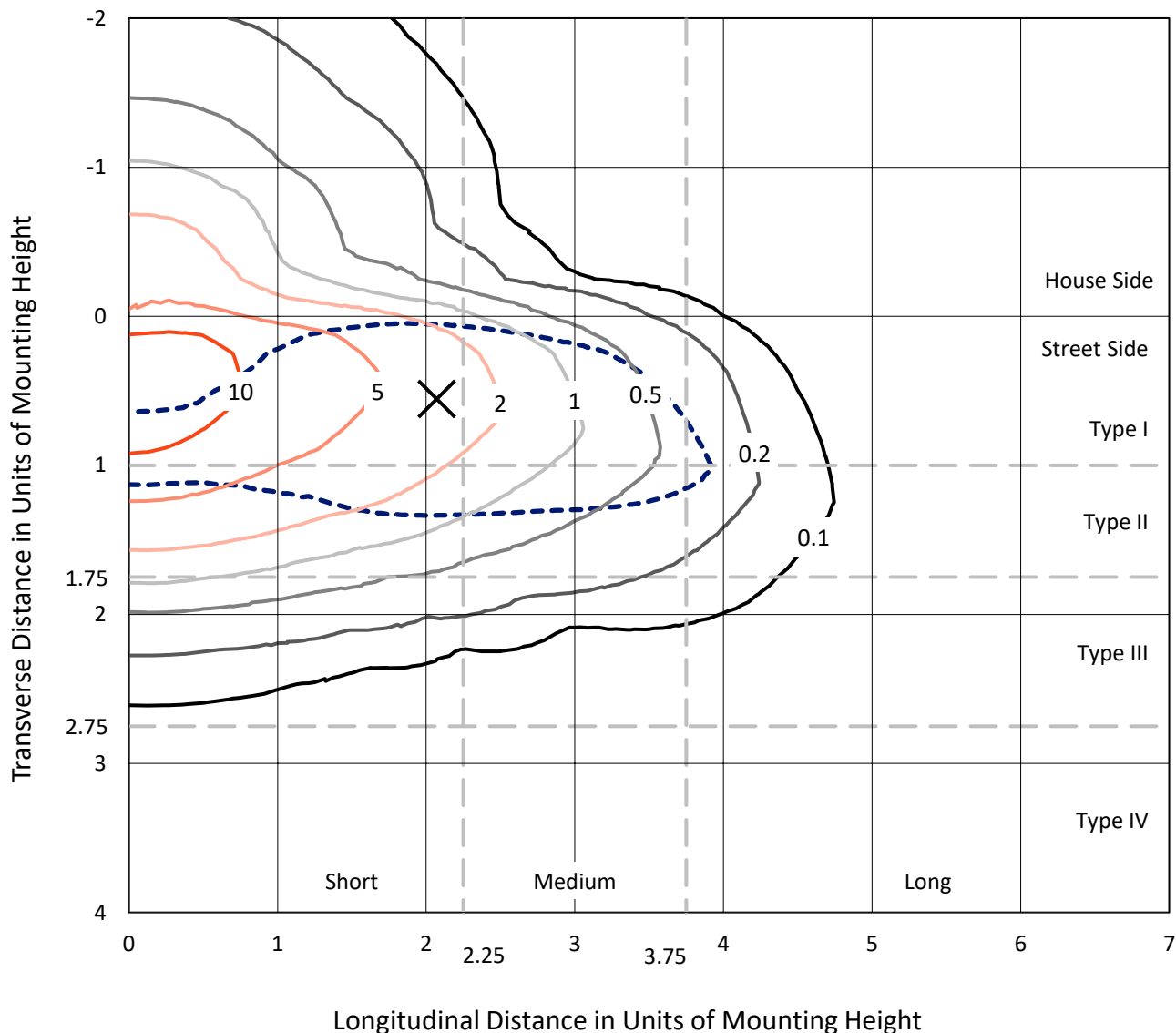
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

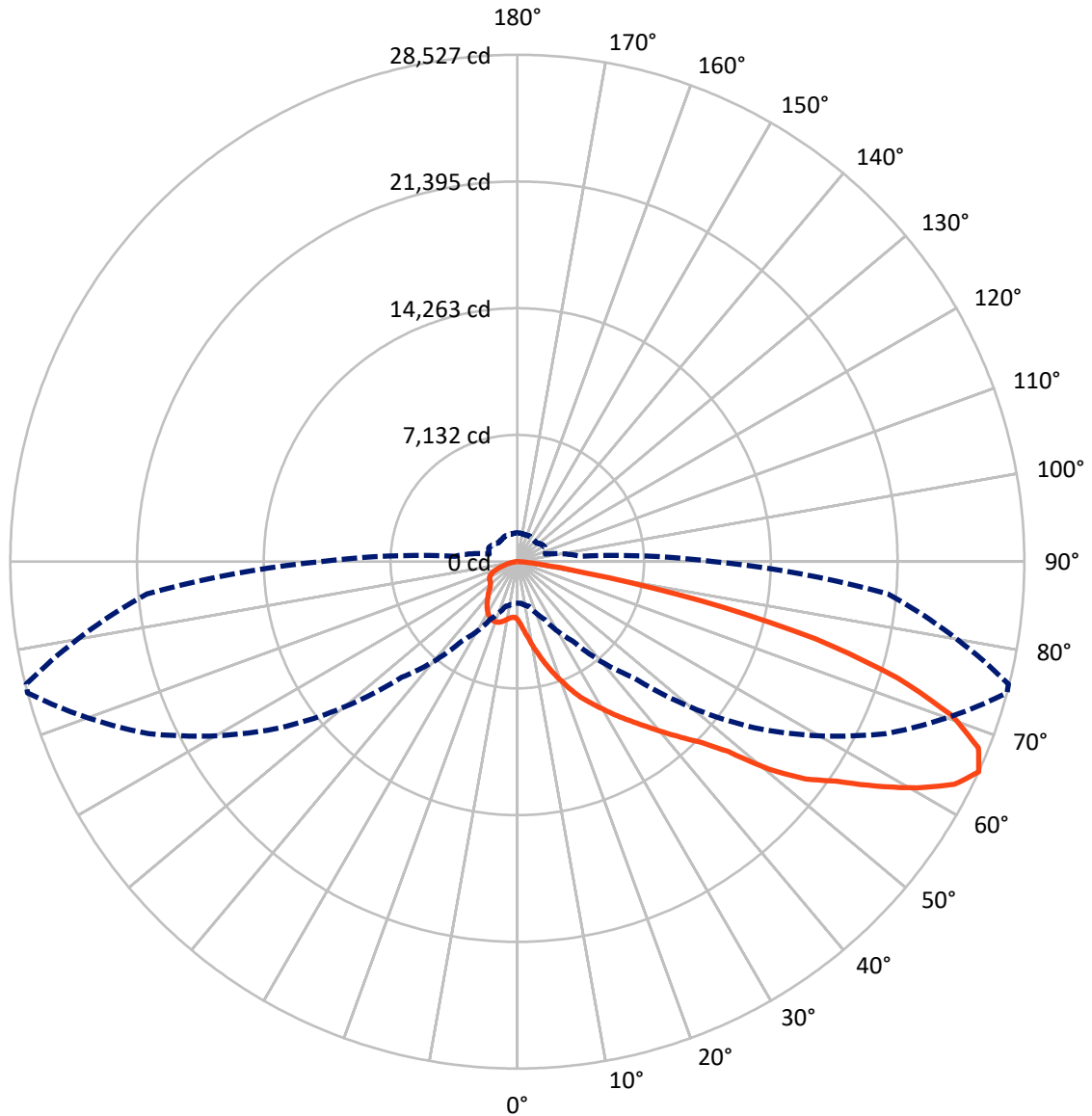
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5893.7	0.0	5893.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	29164.3	0.0	29164.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	35058.0	0.0	35058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.8	1.1
10°-20°	1550.1	4.4
20°-30°	2994.3	8.5
30°-40°	4863.7	13.9
40°-50°	6690.4	19.1
50°-60°	7899.1	22.5
60°-70°	6920.9	19.7
70°-80°	3304.1	9.4
80°-90°	439.6	1.3
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°	35058.0	100.0
0°-180°	35058.0	100.0

Coefficient of Utilization



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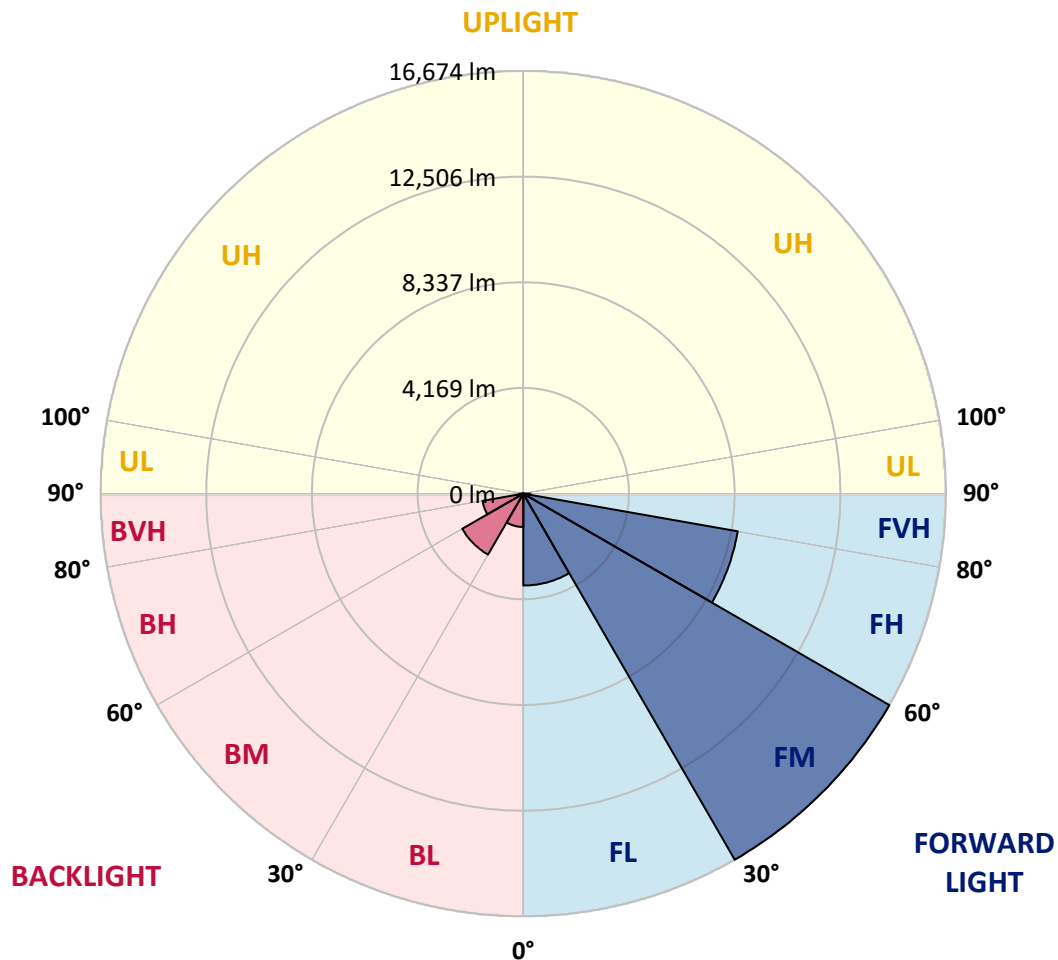
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3624.4	10.3			
FM	(30°-60°)	16674.3	47.6			
FH	(60°-80°)	8590.8	24.5			G4/12000
FVH	(80°-90°)	274.8	0.8			G3/500
BL	(0°-30°)	1315.8	3.8	B3/2500		
BM	(30°-60°)	2778.8	7.9	B3/5000		
BH	(60°-80°)	1634.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	164.9	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3257.3	3257.3	3257.3	3257.3	3257.3	3257.3	3257.3	3257.3	3257.3	3257.3	3257.3
2.5°	4327.9	4299.4	4268.9	4185.3	4095.9	3995.1	3850.6	3711.8	3527.3	3521.6	3384.7
5°	5527.8	5508.7	5373.7	5295.8	5088.5	4812.8	4578.9	4215.7	3879.1	3839.2	3573.0
7.5°	6630.7	6556.5	6505.2	6364.4	6159.1	5805.4	5352.8	4862.2	4299.4	4246.1	3805.0
10°	7461.6	7454.0	7427.4	7305.7	7151.7	6799.9	6297.9	5594.3	4831.8	4727.2	4086.4
12.5°	8083.4	8089.1	8085.3	8083.4	7973.1	7674.6	7130.8	6389.2	5369.9	5295.8	4411.6
15°	8492.3	8549.3	8572.1	8667.2	8676.7	8477.0	8009.3	7157.4	5976.5	5866.2	4761.4
17.5°	8762.3	8790.8	8897.3	9058.9	9190.1	9154.0	8737.6	7868.6	6596.4	6412.0	5124.6
20°	9020.9	9070.3	9152.1	9372.7	9604.7	9711.1	9418.3	8596.8	7210.6	7092.7	5525.9
22.5°	9559.0	9629.4	9657.9	9770.1	9967.9	10156.1	10023.0	9294.7	7883.8	7724.0	5951.8
25°	10469.9	10544.0	10464.2	10437.5	10502.2	10595.4	10566.8	9952.6	8518.9	8290.7	6354.9
27.5°	11656.4	11665.9	11510.0	11361.7	11201.9	11154.4	11066.9	10536.4	9070.3	8880.2	6760.0
30°	12930.4	12884.8	12626.2	12358.1	12088.1	11821.8	11570.8	11099.3	9684.5	9465.8	7157.4
32.5°	14113.2	14088.5	13801.3	13384.9	12928.5	12677.5	12169.8	11667.8	10342.5	10131.4	7566.2
35°	14999.3	15035.4	14719.8	14265.3	13767.1	13544.6	12903.8	12264.9	11023.2	10793.1	8011.2
37.5°	15628.7	15609.7	15330.2	14936.6	14499.2	14305.3	13761.4	12917.1	11755.3	11534.7	8498.0
40°	15853.1	15841.7	15634.4	15347.3	15069.7	15001.2	14658.9	13620.7	12593.9	12335.3	9083.6
42.5°	15710.5	15735.2	15598.3	15520.3	15469.0	15518.4	15550.8	14542.9	13508.5	13270.8	9718.7
45°	15273.1	15259.8	15240.8	15368.2	15657.2	15982.4	16433.1	15413.8	14503.0	14312.9	10570.6
47.5°	14491.6	14586.7	14634.2	14986.0	15617.3	16387.4	17448.5	16581.4	15946.3	15780.8	11869.4
50°	13398.2	13474.3	13755.7	14381.3	15322.6	16539.6	18441.1	18490.5	18353.6	18043.7	13280.3
52.5°	11690.6	11808.5	12388.5	13535.1	14717.9	16476.8	19042.0	20127.8	20308.4	20076.4	14670.3
55°	9779.6	9945.0	10557.3	12061.4	13885.0	16134.5	19456.5	21076.6	21797.3	21582.4	16009.0
57.5°	7908.5	8083.4	8712.8	10169.4	12432.2	15377.7	19728.4	22133.9	23824.3	23544.8	17674.8
60°	5927.1	6109.6	6649.7	8150.0	10363.4	13898.3	19544.0	23050.4	25849.5	25729.7	19342.4
62.5°	3824.0	4025.6	4495.2	5736.9	7965.5	11877.0	18557.1	23556.2	27602.7	27458.2	20559.4
65°	2329.4	2352.2	2610.8	3561.6	5451.7	9195.8	16300.0	22885.0	28526.8	28483.1	20930.2
67.5°	1506.0	1542.1	1660.0	2133.5	3268.7	6387.3	13033.1	20669.7	27986.8	27971.6	20163.9
70°	1272.1	1283.5	1336.8	1439.5	1899.6	3873.4	9152.1	17138.5	25935.0	25935.0	18321.3
72.5°	1137.1	1152.3	1171.3	1203.7	1355.8	2194.4	5461.2	13341.2	22392.5	22540.8	15594.5
75°	1032.5	1028.7	1040.1	1045.8	1156.1	1433.8	2823.8	9867.1	17323.0	17026.4	11293.2
77.5°	884.2	889.9	884.2	908.9	1021.1	1091.5	1433.8	6621.1	10498.4	10114.3	5668.5
80°	726.4	735.9	745.4	760.6	872.8	829.1	861.4	3017.7	3882.9	3801.2	1751.3
82.5°	545.7	559.1	574.3	610.4	686.5	547.6	543.8	1289.2	1401.4	1283.5	644.6
85°	220.6	260.5	393.6	429.7	431.6	300.4	334.7	538.1	572.4	559.1	252.9
87.5°	51.3	60.8	127.4	192.1	176.8	112.2	123.6	174.9	199.7	184.4	85.6
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°	3257.3	3257.3	3257.3	3257.3	3257.3	3257.3	3257.3	3257.3	3257.3	3257.3	3257.3
2.5°	3322.0	3255.4	3141.3	3053.9	2991.1	2936.0	2901.7	2880.8	2873.2	2871.3	2873.2
5°	3434.2	3316.3	3135.6	3021.5	2958.8	2922.7	2901.7	2899.8	2901.7	2903.6	2897.9
7.5°	3588.2	3419.0	3183.2	3076.7	3029.1	3002.5	2993.0	2989.2	2991.1	2989.2	2989.2
10°	3793.6	3561.6	3276.3	3166.1	3126.1	3095.7	3080.5	3071.0	3063.4	3055.8	3052.0
12.5°	4019.8	3719.4	3377.1	3270.6	3213.6	3166.1	3131.8	3107.1	3090.0	3072.9	3069.1
15°	4272.8	3886.7	3489.3	3341.0	3259.2	3188.9	3129.9	3090.0	3059.6	3034.9	3032.9
17.5°	4514.2	4044.6	3565.4	3373.3	3253.5	3154.6	3076.7	3021.5	2983.5	2951.2	2947.4
20°	4772.9	4194.8	3599.6	3352.4	3196.5	3076.7	2974.0	2907.4	2863.7	2827.6	2821.9
22.5°	5033.4	4322.2	3595.8	3285.9	3097.6	2956.9	2848.5	2778.1	2726.8	2690.7	2677.4
25°	5282.5	4424.9	3548.3	3179.4	2960.7	2814.3	2704.0	2639.3	2593.7	2550.0	2550.0
27.5°	5506.8	4485.7	3458.9	3050.1	2820.0	2666.0	2578.5	2519.5	2477.7	2449.2	2432.1
30°	5727.4	4514.2	3337.2	2886.5	2671.7	2540.5	2470.1	2435.9	2397.8	2365.5	2361.7
32.5°	5925.2	4508.5	3185.1	2726.8	2530.9	2437.8	2409.2	2382.6	2342.7	2297.1	2285.6
35°	6117.2	4470.5	3004.4	2551.9	2413.0	2376.9	2384.5	2346.5	2274.2	2217.2	2207.7
37.5°	6326.4	4402.1	2806.7	2409.2	2314.2	2348.4	2367.4	2283.7	2165.8	2076.5	2055.6
40°	6567.9	4324.1	2601.3	2266.6	2236.2	2321.8	2321.8	2167.8	2006.1	1951.0	1935.8
42.5°	6851.2	4259.4	2430.2	2146.8	2171.6	2257.1	2247.6	2013.7	1947.2	1918.6	1911.0
45°	7300.0	4236.6	2253.3	2042.2	2118.3	2181.1	2103.1	1960.5	1922.5	1899.6	1892.0
47.5°	8009.3	4263.2	2097.4	1964.3	2057.5	2105.0	1941.5	1924.4	1897.7	1865.4	1861.6
50°	8667.2	4238.5	1987.1	1920.6	2004.2	2013.7	1874.9	1880.6	1865.4	1829.3	1821.7
52.5°	9205.3	4160.6	1916.7	1897.7	1958.6	1854.0	1812.2	1833.1	1827.4	1781.7	1774.1
55°	9796.7	4113.0	1882.5	1897.7	1928.2	1715.2	1753.2	1783.6	1776.0	1743.7	1741.8
57.5°	10513.6	4122.5	1857.8	1903.4	1897.7	1644.8	1694.3	1730.4	1728.5	1719.0	1719.0
60°	11247.6	4126.3	1819.8	1901.5	1861.6	1589.7	1633.4	1684.8	1688.6	1694.3	1694.3
62.5°	11491.0	3960.9	1745.6	1867.3	1781.7	1536.4	1576.4	1646.7	1642.9	1658.1	1660.0
65°	11036.5	3502.6	1635.3	1789.3	1679.1	1498.4	1532.6	1597.3	1576.4	1616.3	1623.9
67.5°	10045.8	2897.9	1464.2	1648.6	1565.0	1458.5	1504.1	1528.8	1490.8	1568.8	1570.7
70°	8682.4	2262.8	1247.4	1449.0	1435.7	1416.6	1481.3	1443.3	1390.0	1485.1	1466.1
72.5°	7260.1	1728.5	996.4	1184.7	1262.6	1353.9	1441.4	1333.0	1258.8	1287.3	1253.1
75°	5453.6	1277.8	800.5	927.9	1051.5	1264.5	1405.2	1199.9	1085.8	1059.2	1051.5
77.5°	2780.0	834.8	599.0	694.1	789.1	1142.8	1355.8	1043.9	899.4	857.6	838.6
80°	992.6	519.1	422.1	479.2	532.4	983.1	1184.7	863.3	697.9	690.3	697.9
82.5°	460.2	334.7	283.3	313.8	315.7	656.0	903.2	644.6	530.5	806.3	680.7
85°	197.8	167.3	159.7	155.9	144.5	292.8	507.7	346.1	540.0	241.5	222.5
87.5°	58.9	66.6	58.9	43.7	32.3	32.3	51.3	19.0	13.3	9.5	9.5
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)