

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: P533700

Luminaire Tested: **GALN-SA9A-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533700
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-SA9A-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 25563 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

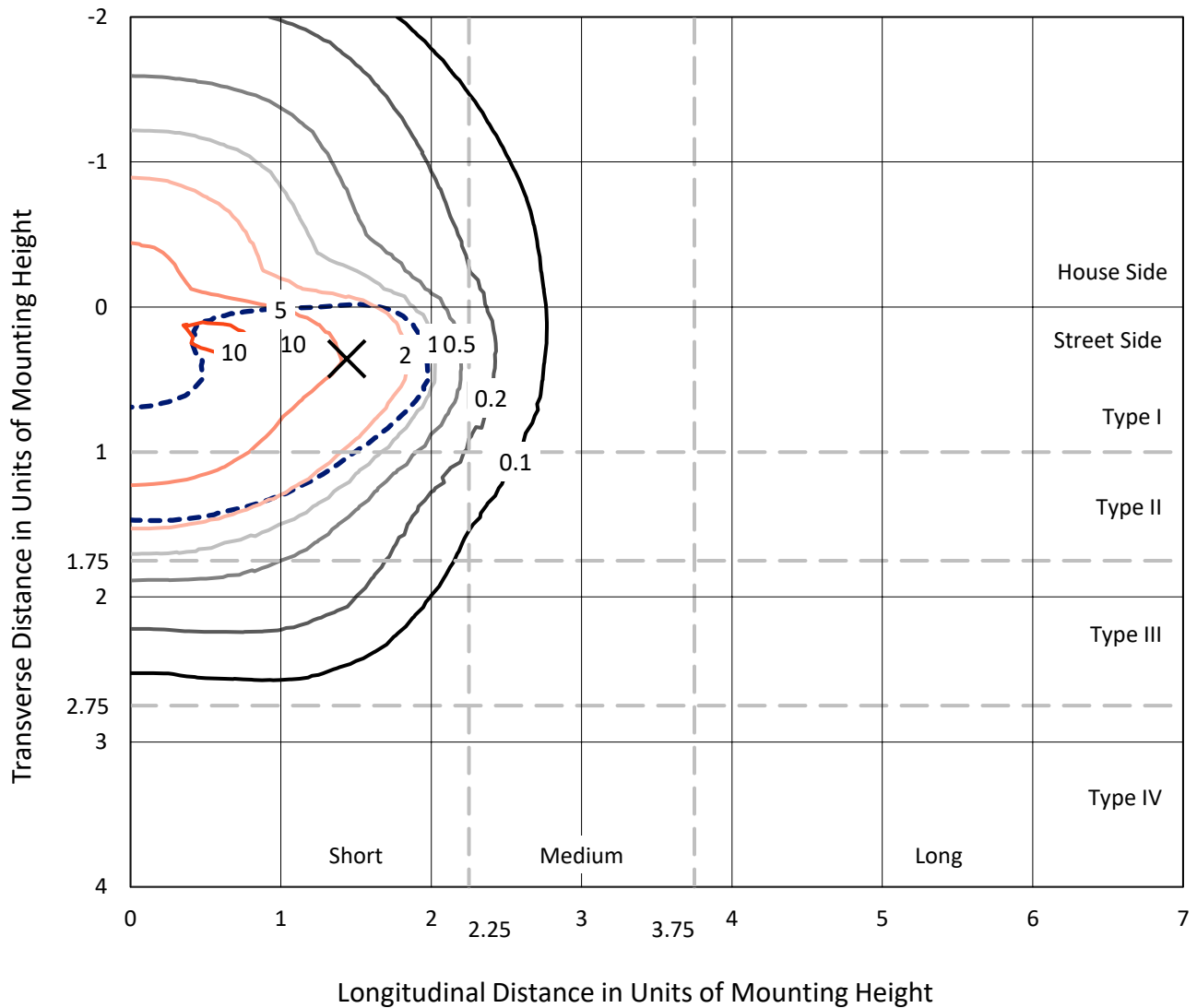
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

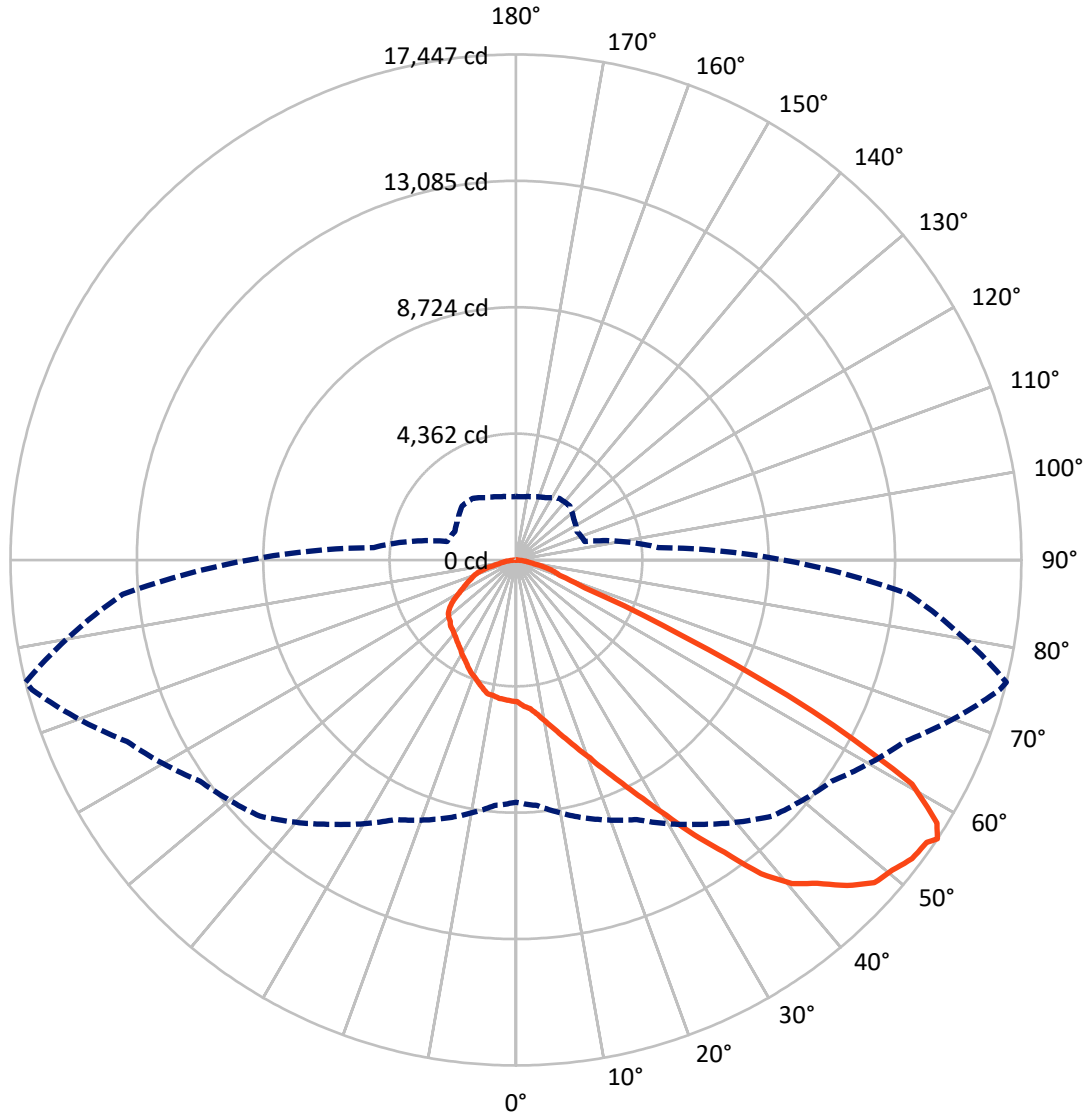
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	6873.1	0.0	6873.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	18689.9	0.0	18689.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	25563.0	0.0	25563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.1	1.9
10°-20°	1523.7	6.0
20°-30°	2664.8	10.4
30°-40°	4172.3	16.3
40°-50°	6069.5	23.7
50°-60°	6670.7	26.1
60°-70°	2977.5	11.6
70°-80°	860.0	3.4
80°-90°	139.5	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°	25563.0	100.0
0°-180°	25563.0	100.0

Coefficient of Utilization



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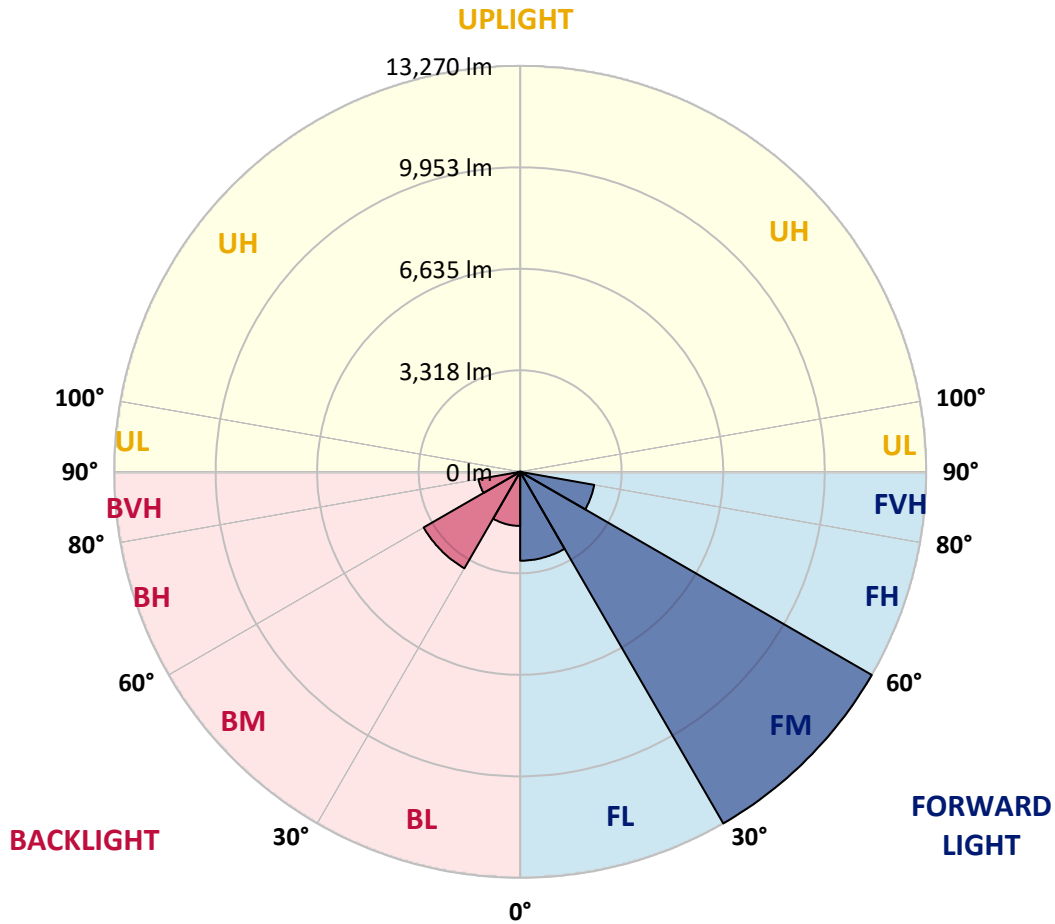
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2904.9	11.4			
FM (30°-60°)	13270.2	51.9			
FH (60°-80°)	2454.6	9.6			G2/5000
FVH (80°-90°)	60.0	0.2			G1/100
BL (0°-30°)	1768.6	6.9	B3/2500		
BM (30°-60°)	3642.2	14.2	B3/5000		
BH (60°-80°)	1382.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	79.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4891.2	4891.2	4891.2	4891.2	4891.2	4891.2	4891.2	4891.2	4891.2	4891.2	4891.2
2.5°	5388.2	5302.1	5295.4	5272.2	5285.5	5225.8	5162.9	5080.0	4993.9	5046.9	4921.0
5°	5766.0	5650.0	5696.4	5616.9	5626.8	5547.3	5418.0	5321.9	5215.9	5152.9	5063.5
7.5°	5898.5	5908.5	5941.6	5928.4	5862.1	5862.1	5775.9	5606.9	5421.4	5384.9	5235.8
10°	6077.5	6080.8	6044.4	6054.3	6147.1	6104.0	6027.8	5954.9	5716.3	5673.2	5408.1
12.5°	6140.5	6080.8	6140.5	6193.5	6302.8	6362.5	6345.9	6292.9	6037.7	6007.9	5620.2
15°	6150.4	6113.9	6163.6	6282.9	6379.0	6630.9	6756.8	6720.4	6382.4	6385.7	5858.8
17.5°	6104.0	6153.7	6173.6	6276.3	6498.3	6733.6	7098.1	7147.8	6869.5	6826.4	6160.3
20°	6167.0	6130.5	6157.0	6249.8	6544.7	6912.6	7389.7	7717.8	7326.8	7297.0	6471.8
22.5°	6408.9	6359.2	6352.5	6412.2	6624.3	7005.3	7697.9	8287.8	7883.5	7900.1	6859.5
25°	6597.8	6624.3	6601.1	6597.8	6730.3	7144.5	8105.5	8967.1	8639.0	8542.9	7316.8
27.5°	6922.5	6985.5	6939.1	7002.0	6972.2	7353.3	8397.1	9719.3	9454.2	9325.0	7731.1
30°	7373.2	7406.3	7363.2	7363.2	7273.8	7644.9	8662.2	10504.7	10395.4	10219.7	8218.2
32.5°	7966.3	8016.1	7929.9	7880.2	7866.9	8079.0	9139.4	11280.1	11465.7	11316.6	8864.4
35°	8751.7	8721.9	8619.2	8572.8	8393.8	8745.1	9848.6	12171.5	12658.7	12393.6	9646.4
37.5°	9444.3	9397.9	9391.3	9132.8	9175.9	9464.2	10451.7	12847.6	13815.2	13739.0	10471.6
40°	10090.5	10133.6	10203.2	10057.3	9991.1	10309.2	11154.2	13364.5	14713.2	14683.4	11107.8
42.5°	10783.1	10743.3	10865.9	10743.3	10643.9	11094.6	11916.4	13722.4	15501.9	15256.7	11773.9
45°	11787.1	11661.2	11704.3	11714.2	11641.3	11807.0	12231.2	13980.9	16055.3	16028.8	12261.0
47.5°	12625.5	12628.8	12555.9	12499.6	12277.6	12443.3	12582.5	14143.2	16691.6	16648.5	12449.9
50°	12937.0	12894.0	13106.0	13228.6	13241.9	12903.9	12857.5	14232.7	17026.2	16837.4	12638.8
52.5°	11817.0	11856.7	12191.4	12920.5	13341.3	13377.8	13178.9	14418.3	17162.1	17122.3	12791.2
55°	9510.6	9702.8	10252.9	11094.6	12092.0	13188.9	13526.9	14610.5	17235.0	17201.9	13467.2
56°	8360.7	8509.8	9225.6	9885.0	11137.6	12502.9	13308.2	14815.9	17291.3	17447.1	13626.3
57.5°	6730.3	6902.6	7416.3	8165.2	9643.1	11197.3	12705.1	14564.1	17072.6	17132.3	13742.3
60°	4208.5	4225.1	4841.4	5335.2	6375.7	7893.4	9696.1	12671.9	15800.1	15714.0	12343.9
62.5°	2760.4	2763.7	3323.7	3728.0	4201.9	4549.8	5706.3	8403.8	11657.9	11505.5	8788.2
65°	1938.6	1981.6	2415.8	2955.9	3148.1	2965.8	2929.4	4430.5	6511.6	6292.9	4722.1
67.5°	1418.3	1421.6	1806.0	2385.9	2664.3	2256.7	1832.5	2163.9	2578.1	2571.5	2187.1
70°	937.8	977.6	1272.5	1782.8	2100.9	1812.6	1497.8	1547.5	1640.3	1640.3	1627.1
72.5°	546.8	583.2	778.7	1130.0	1179.7	1133.3	1186.3	1325.5	1385.2	1381.8	1365.3
75°	311.5	328.1	371.1	470.6	586.5	692.6	871.5	1004.1	1063.7	1100.2	1057.1
77.5°	182.3	192.2	218.7	268.4	304.9	374.5	473.9	566.7	646.2	636.2	642.9
80°	96.1	96.1	122.6	159.1	212.1	265.1	314.8	367.8	410.9	420.9	430.8
82.5°	56.3	59.6	79.5	116.0	152.4	188.9	241.9	278.4	318.1	321.4	328.1
85°	29.8	33.1	49.7	76.2	102.7	116.0	119.3	112.7	122.6	116.0	132.6
87.5°	9.9	9.9	16.6	13.3	13.3	16.6	19.9	19.9	26.5	26.5	26.5
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°	4891.2	4891.2	4891.2	4891.2	4891.2	4891.2	4891.2	4891.2	4891.2	4891.2	4891.2
2.5°	4917.7	4917.7	4861.3	4755.3	4738.7	4695.6	4655.9	4652.6	4622.7	4596.2	4583.0
5°	5010.4	4907.7	4824.9	4728.8	4616.1	4563.1	4503.4	4437.2	4410.7	4437.2	4433.8
7.5°	5116.5	5030.3	4781.8	4602.9	4473.6	4420.6	4354.3	4284.7	4291.4	4291.4	4245.0
10°	5219.2	5103.2	4705.6	4476.9	4288.0	4248.3	4211.8	4238.3	4271.5	4278.1	4248.3
12.5°	5391.5	5129.7	4669.1	4351.0	4231.7	4145.5	4168.7	4241.6	4311.2	4291.4	4314.6
15°	5520.8	5152.9	4503.4	4221.8	4072.6	4112.4	4195.3	4245.0	4360.9	4347.7	4370.9
17.5°	5646.7	5166.2	4341.1	4049.4	3986.5	4095.8	4158.8	4301.3	4337.7	4417.3	4447.1
20°	5905.2	5192.7	4175.4	3943.4	3923.5	4049.4	4158.8	4225.1	4304.6	4374.2	4374.2
22.5°	6037.7	5179.5	4066.0	3804.2	3867.2	3946.7	4046.1	4158.8	4158.8	4225.1	4228.4
25°	6203.4	5126.4	3893.7	3738.0	3784.3	3860.6	3973.2	3933.5	3976.5	3976.5	4029.6
27.5°	6392.3	5013.8	3744.6	3618.7	3711.4	3794.3	3810.9	3784.3	3734.6	3728.0	3708.1
30°	6544.7	4874.6	3635.2	3578.9	3655.1	3701.5	3648.5	3592.1	3506.0	3499.4	3453.0
32.5°	6753.5	4702.3	3499.4	3479.5	3565.6	3569.0	3552.4	3466.2	3340.3	3287.3	3234.3
35°	7104.8	4602.9	3396.6	3426.5	3453.0	3443.0	3413.2	3320.4	3194.5	3171.3	3151.4
37.5°	7363.2	4529.9	3290.6	3327.0	3350.2	3363.5	3274.0	3171.3	3174.6	3128.2	3115.0
40°	7654.9	4483.6	3204.4	3221.0	3224.3	3267.4	3158.0	3108.3	3131.5	3101.7	3121.6
42.5°	8029.3	4496.8	3115.0	3101.7	3164.7	3148.1	3095.1	3028.8	3042.1	2952.6	2965.8
45°	8228.1	4586.3	3061.9	3002.3	3071.9	3068.6	2999.0	2936.0	2856.5	2684.2	2690.8
47.5°	8360.7	4609.5	2936.0	2896.3	2969.2	3012.2	2932.7	2786.9	2674.2	2551.6	2521.8
50°	8496.6	4652.6	2876.4	2793.5	2823.3	2926.1	2826.7	2687.5	2578.1	2468.8	2485.3
52.5°	8615.9	4735.4	2760.4	2637.8	2690.8	2803.5	2750.4	2581.4	2462.1	2372.7	2346.2
55°	9146.1	4921.0	2564.9	2405.8	2531.7	2674.2	2644.4	2438.9	2309.7	2263.3	2256.7
56°	9228.9	4927.6	2462.1	2326.3	2442.3	2631.1	2594.7	2376.0	2260.0	2187.1	2190.4
57.5°	9242.2	4848.1	2316.3	2253.4	2352.8	2568.2	2521.8	2326.3	2167.2	2100.9	2081.1
60°	8132.0	3784.3	2134.1	2094.3	2210.3	2376.0	2359.4	2190.4	2011.5	1935.3	1971.7
62.5°	5544.0	2773.6	1991.6	1985.0	2044.6	2207.0	2163.9	2011.5	1862.3	1812.6	1789.4
65°	3227.6	2104.3	1852.4	1825.9	1875.6	1961.8	1991.6	1832.5	1676.8	1643.6	1633.7
67.5°	1905.4	1739.7	1673.5	1630.4	1613.8	1666.8	1690.0	1597.2	1441.5	1395.1	1434.9
70°	1593.9	1547.5	1550.9	1477.9	1438.2	1401.7	1381.8	1299.0	1169.8	1110.1	1093.6
72.5°	1375.2	1355.3	1342.1	1275.8	1239.4	1156.5	1070.4	987.5	891.4	841.7	845.0
75°	1050.5	1043.8	1050.5	1017.3	954.4	888.1	808.6	702.5	629.6	566.7	579.9
77.5°	626.3	646.2	656.1	642.9	616.4	556.7	507.0	437.4	367.8	318.1	311.5
80°	430.8	447.4	463.9	447.4	420.9	377.8	324.8	271.7	222.0	195.5	188.9
82.5°	328.1	344.6	354.6	338.0	304.9	258.5	222.0	185.6	145.8	119.3	112.7
85°	119.3	135.9	132.6	159.1	172.3	165.7	142.5	109.4	82.8	59.6	56.3
87.5°	33.1	29.8	33.1	33.1	33.1	29.8	26.5	26.5	26.5	16.6	13.3
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)