

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: P527752

Luminaire Tested: **GALN-SA2D-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12651 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

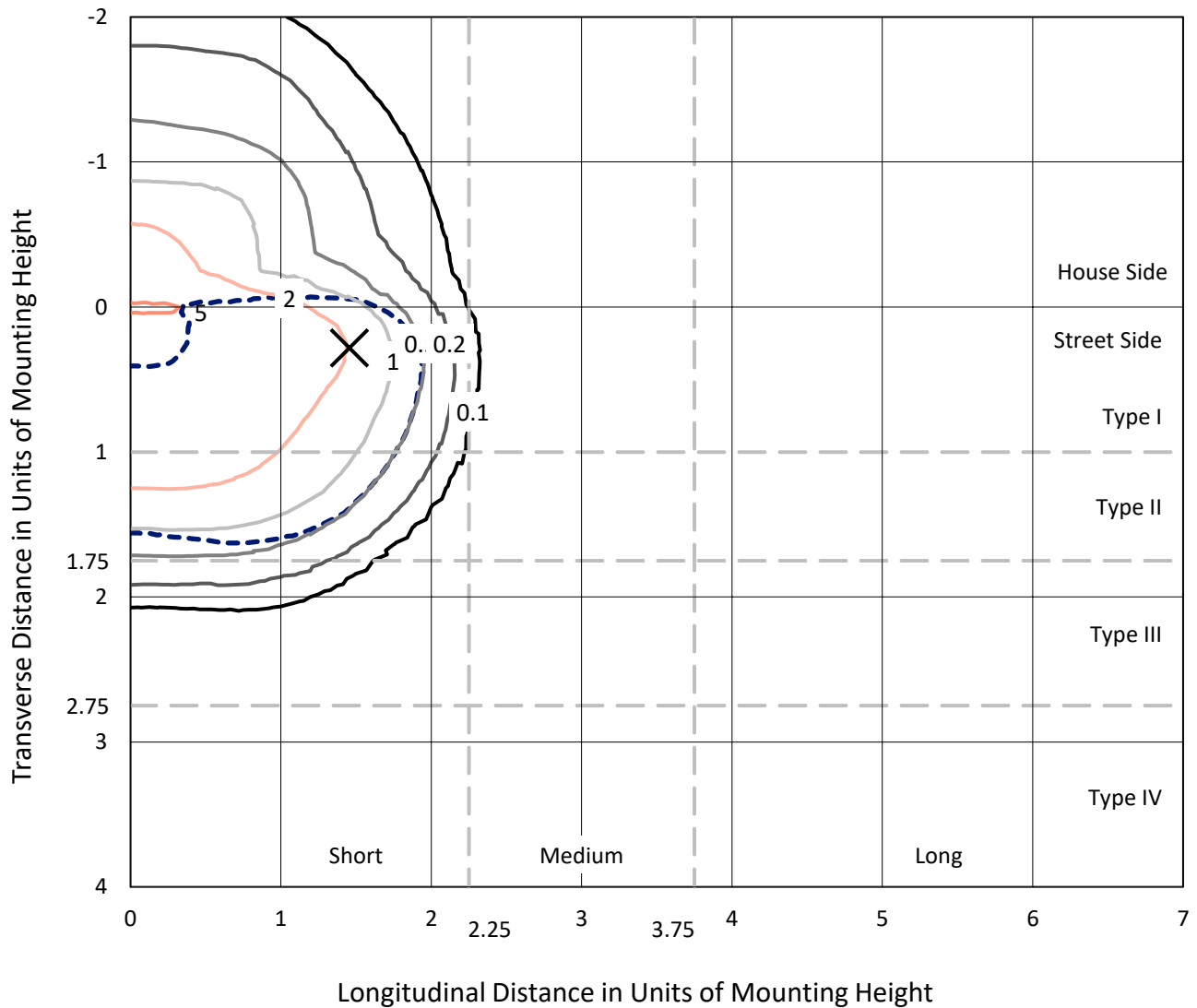
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

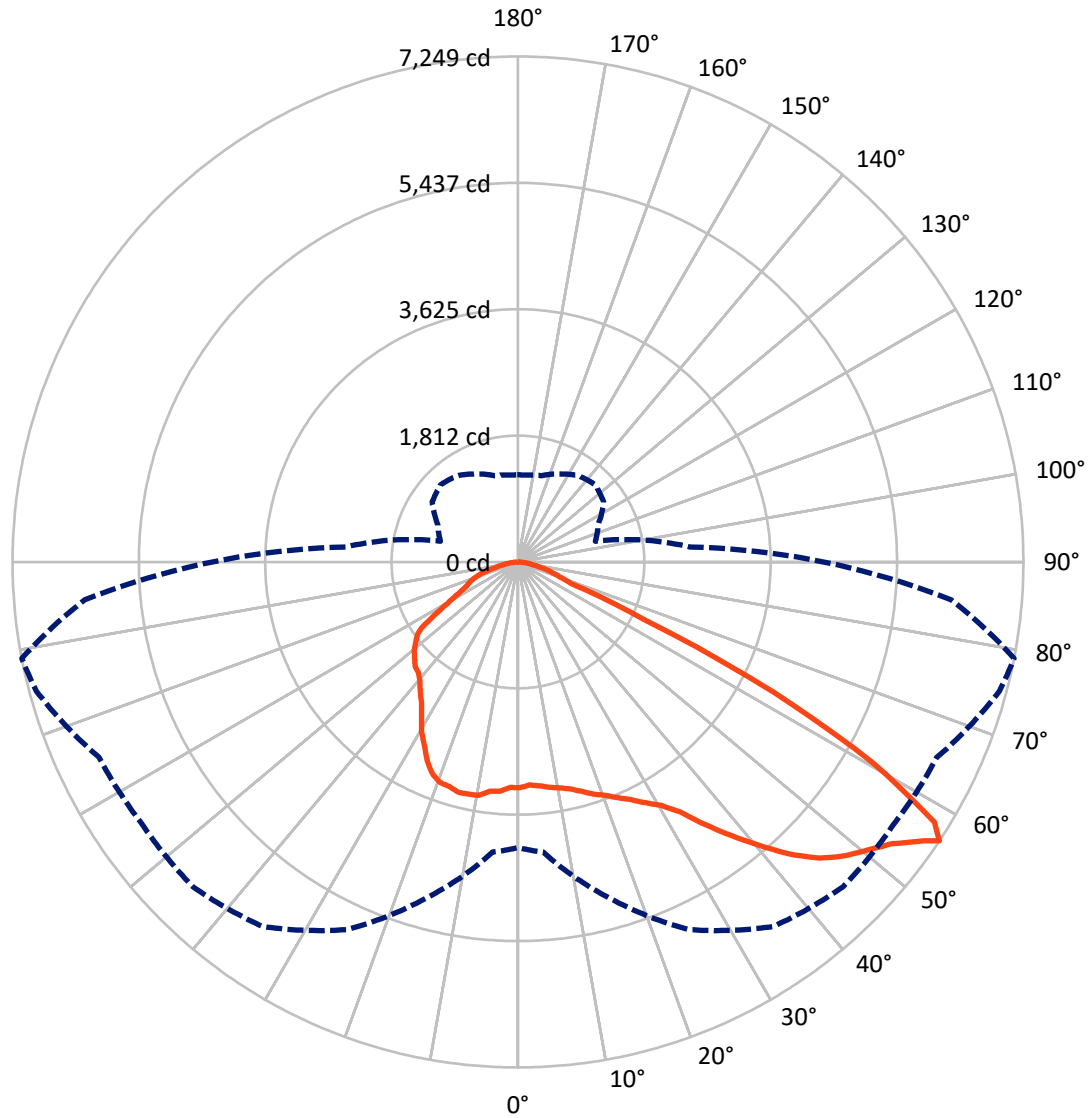
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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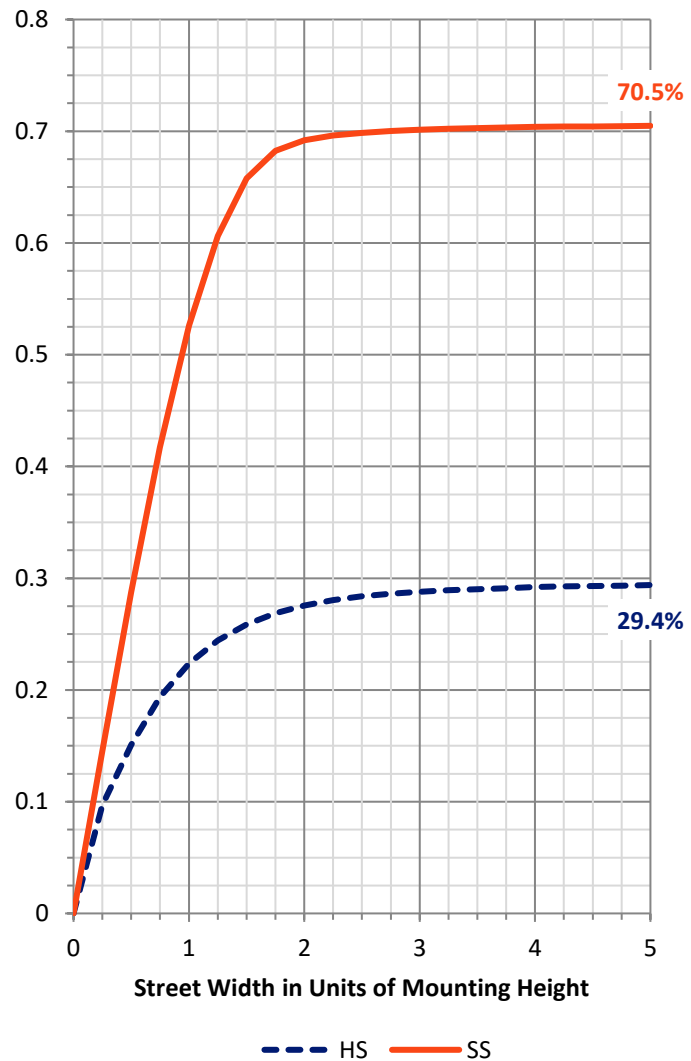
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3736.1	0.0	3736.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	8914.9	0.0	8914.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	12651.0	0.0	12651.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.3	2.3
10°-20°	805.4	6.4
20°-30°	1377.9	10.9
30°-40°	2111.8	16.7
40°-50°	2854.1	22.6
50°-60°	3278.0	25.9
60°-70°	1494.2	11.8
70°-80°	368.4	2.9
80°-90°	67.0	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°	12651.0	100.0
0°-180°	12651.0	100.0

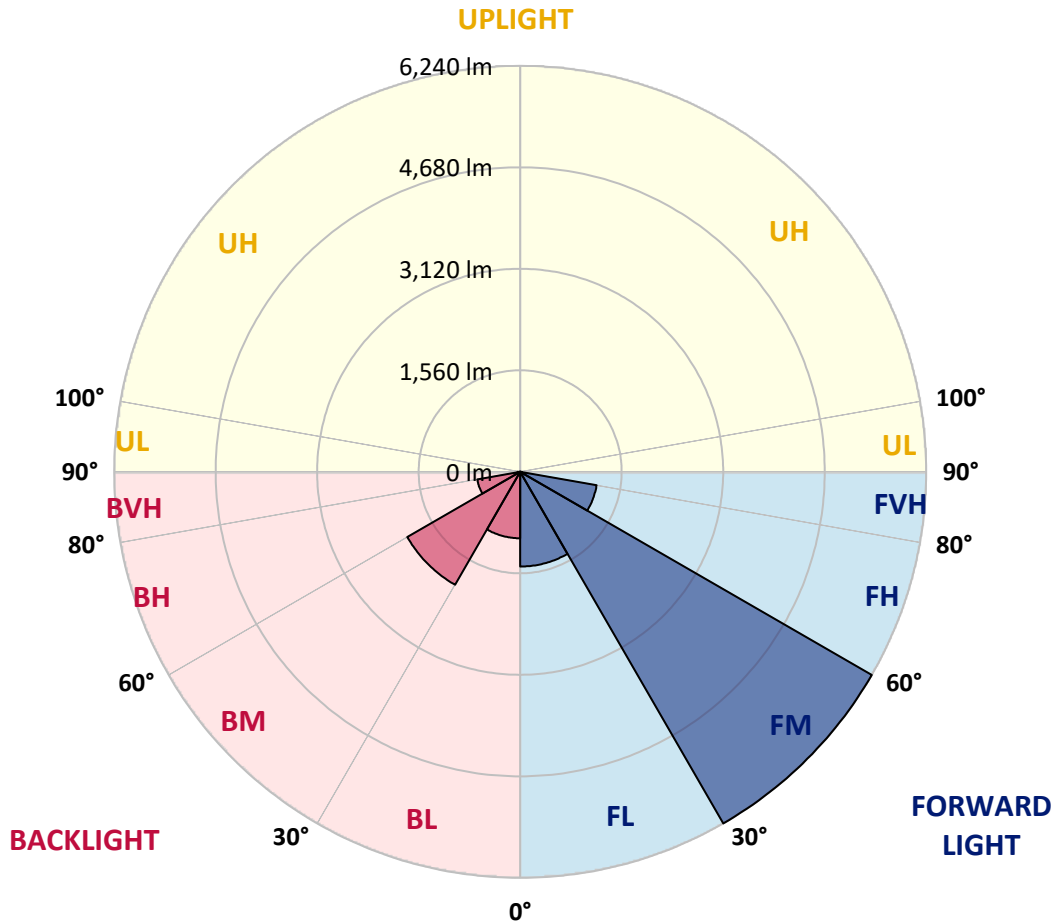


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1455.6	11.5			
FM (30°-60°)	6239.8	49.3			
FH (60°-80°)	1192.7	9.4			G1/1800
FVH (80°-90°)	26.7	0.2			G1/100
BL (0°-30°)	1022.0	8.1	B3/2500		
BM (30°-60°)	2004.0	15.8	B2/2500		
BH (60°-80°)	669.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	40.2	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°	79°	85°
0°	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9
2.5°	3079.3	3071.4	3090.3	3104.5	3121.8	3143.9	3154.9	3161.2	3216.4	3202.2	3244.8
5°	3013.1	2992.6	3006.8	3017.8	3047.8	3074.6	3104.5	3151.8	3202.2	3224.3	3276.3
7.5°	2954.8	2943.8	2940.6	2948.5	2989.5	3024.1	3076.1	3145.5	3227.4	3263.7	3293.6
10°	2858.7	2842.9	2866.6	2918.6	2929.6	3002.1	3062.0	3161.2	3232.2	3295.2	3383.4
12.5°	2816.1	2800.4	2805.1	2835.0	2912.3	2981.6	3052.5	3164.4	3314.1	3339.3	3457.5
15°	2883.9	2868.1	2872.9	2865.0	2939.0	2975.3	3087.2	3227.4	3370.8	3413.4	3539.5
17.5°	3038.3	3039.9	3019.4	3002.1	2984.7	3062.0	3139.2	3265.3	3392.9	3500.1	3594.6
20°	3333.0	3281.0	3240.0	3142.3	3115.5	3148.6	3246.3	3367.7	3482.7	3571.0	3678.1
22.5°	3559.9	3564.7	3506.4	3345.6	3287.3	3301.5	3385.0	3484.3	3610.4	3673.4	3796.3
25°	3889.3	3856.2	3793.2	3665.5	3534.7	3545.8	3607.2	3697.1	3731.7	3775.8	3909.8
27.5°	4190.3	4199.8	4075.3	3955.5	3793.2	3761.7	3872.0	3887.7	3829.4	3912.9	3958.7
30°	4496.0	4488.2	4406.2	4265.9	4106.8	4113.1	4161.9	4084.7	4004.4	4050.1	4081.6
32.5°	4812.8	4723.0	4719.8	4593.7	4472.4	4414.1	4354.2	4392.0	4267.5	4277.0	4247.0
35°	5066.5	5079.1	5006.6	4916.8	4856.9	4754.5	4590.6	4658.3	4634.7	4623.7	4494.5
37.5°	5250.9	5202.0	5238.3	5208.3	5151.6	5024.0	4853.8	4918.4	4929.4	4983.0	4833.3
40°	5402.2	5381.7	5477.8	5493.6	5454.2	5178.4	4872.7	5064.9	5230.4	5347.0	5168.9
42.5°	5474.7	5518.8	5619.6	5741.0	5652.7	5358.0	4970.4	5176.8	5545.6	5730.0	5487.3
45°	5572.4	5515.6	5665.3	5887.5	5889.1	5509.3	5064.9	5328.1	5791.4	6059.3	5704.7
47.5°	5473.1	5501.5	5655.9	5938.0	6010.5	5668.5	5320.2	5542.4	6062.5	6300.4	5906.5
50°	5250.9	5307.6	5589.7	5882.8	6101.9	5837.1	5613.3	5774.1	6313.0	6494.3	5939.6
52.5°	5019.2	5050.7	5492.0	5925.4	6142.8	6054.6	6005.7	6094.0	6618.8	6713.3	5980.5
55°	4388.9	4538.6	5168.9	5906.5	6343.0	6447.0	6409.2	6538.4	6965.5	7060.0	6204.3
56°	4097.3	4176.1	4975.1	5818.2	6382.4	6590.4	6571.5	6629.8	7149.8	7249.1	6239.0
57.5°	3558.4	3564.7	4242.3	5427.4	6234.2	6632.9	6614.0	6659.7	7113.6	7045.8	5934.8
60°	2226.7	2324.4	2887.0	4174.5	5301.3	6153.9	6261.0	5893.9	5997.9	5854.5	4617.4
62.5°	1153.6	1139.4	1512.9	2441.1	3519.0	4406.2	4505.5	4488.2	4327.4	4117.8	3016.3
65°	575.2	578.4	791.1	1208.7	1802.8	2307.1	2584.5	2614.4	2187.3	2012.4	1430.9
67.5°	417.6	433.4	568.9	739.1	849.4	950.3	1164.6	1142.5	865.2	822.6	762.7
70°	324.6	338.8	461.7	564.2	512.2	512.2	557.9	576.8	616.2	633.5	654.0
72.5°	236.4	247.4	353.0	389.2	335.7	360.9	417.6	461.7	502.7	509.0	532.7
75°	162.3	171.8	231.7	214.3	201.7	249.0	305.7	346.7	376.6	392.4	406.6
77.5°	105.6	108.7	132.4	111.9	129.2	160.7	198.6	233.2	263.2	275.8	278.9
80°	47.3	52.0	56.7	70.9	89.8	115.0	141.8	170.2	189.1	193.8	203.3
82.5°	26.8	26.8	34.7	50.4	66.2	83.5	102.4	122.9	145.0	149.7	148.1
85°	14.2	14.2	20.5	29.9	41.0	48.9	47.3	48.9	52.0	59.9	58.3
87.5°	4.7	4.7	6.3	6.3	7.9	9.5	7.9	11.0	14.2	14.2	14.2
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°	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9	3236.9
2.5°	3232.2	3246.3	3227.4	3268.4	3268.4	3260.5	3221.1	3233.7	3243.2	3243.2	3251.1
5°	3293.6	3288.9	3301.5	3252.6	3222.7	3211.7	3147.1	3115.5	3088.8	3087.2	3063.5
7.5°	3328.3	3315.7	3311.0	3274.7	3142.3	3062.0	2923.3	2842.9	2825.6	2764.1	2787.8
10°	3383.4	3407.1	3383.4	3186.5	3002.1	2817.7	2682.2	2557.7	2508.8	2469.4	2445.8
12.5°	3496.9	3485.9	3348.8	3082.5	2824.0	2605.0	2403.2	2272.4	2223.6	2188.9	2185.8
15°	3593.0	3537.9	3328.3	2918.6	2546.6	2313.4	2147.9	2055.0	2032.9	2036.1	2050.2
17.5°	3626.1	3588.3	3221.1	2748.4	2340.2	2066.0	1988.8	1974.6	1995.1	2018.7	2025.0
20°	3678.1	3618.3	3177.0	2516.7	2084.9	1911.6	1906.8	1957.3	1995.1	2029.8	2034.5
22.5°	3786.9	3635.6	3033.6	2297.7	1910.0	1865.9	1911.6	1954.1	2012.4	2040.8	2015.6
25°	3818.4	3597.8	2831.9	2034.5	1799.7	1837.5	1886.3	1944.7	1985.6	2001.4	2012.4
27.5°	3845.2	3539.5	2559.3	1859.6	1765.0	1835.9	1886.3	1935.2	1957.3	1971.4	1984.1
30°	3920.8	3522.1	2322.9	1742.9	1742.9	1804.4	1869.0	1881.6	1911.6	1928.9	1951.0
32.5°	3958.7	3402.4	2080.2	1668.9	1720.9	1820.2	1824.9	1848.5	1850.1	1864.3	1840.6
35°	4057.9	3317.3	1854.8	1615.3	1730.3	1804.4	1828.0	1813.9	1736.6	1698.8	1706.7
37.5°	4130.4	3274.7	1692.5	1609.0	1731.9	1821.7	1834.3	1727.2	1646.8	1583.8	1599.5
40°	4325.8	3169.1	1569.6	1598.0	1746.1	1840.6	1806.0	1689.4	1544.4	1479.8	1468.7
42.5°	4475.5	3093.5	1492.4	1585.4	1757.1	1867.4	1791.8	1613.7	1465.6	1405.7	1421.5
45°	4648.9	3076.1	1451.4	1588.5	1776.0	1881.6	1774.5	1555.4	1397.8	1374.2	1369.5
47.5°	4710.4	2951.7	1407.3	1561.7	1771.3	1876.9	1716.2	1511.3	1372.6	1375.8	1388.4
50°	4607.9	2824.0	1374.2	1506.6	1739.8	1834.3	1624.7	1453.0	1358.4	1397.8	1419.9
52.5°	4477.1	2693.2	1306.4	1432.5	1675.2	1768.2	1582.2	1449.8	1344.2	1331.6	1336.4
55°	4516.5	2586.0	1211.9	1331.6	1571.2	1645.2	1534.9	1419.9	1309.6	1262.3	1278.1
56°	4388.9	2475.7	1150.4	1268.6	1500.3	1566.4	1511.3	1393.1	1281.2	1249.7	1249.7
57.5°	4028.0	2105.4	1070.0	1167.7	1350.5	1429.3	1465.6	1377.3	1249.7	1194.5	1196.1
60°	2970.6	1497.1	959.7	1029.1	1118.9	1181.9	1350.5	1333.2	1170.9	1133.1	1118.9
62.5°	1831.2	1093.7	880.9	907.7	953.4	1005.4	1178.8	1207.1	1087.4	1046.4	1036.9
65°	1025.9	836.8	821.0	832.1	854.1	880.9	978.6	1041.7	959.7	896.7	893.5
67.5°	750.1	748.6	761.2	770.6	780.1	780.1	803.7	828.9	817.9	767.5	762.7
70°	666.6	671.3	680.8	682.4	685.5	674.5	655.6	647.7	660.3	628.8	622.5
72.5°	550.0	565.7	576.8	578.4	561.0	546.8	521.6	494.8	485.4	479.1	477.5
75°	422.3	433.4	438.1	436.5	430.2	409.7	379.8	353.0	335.7	316.8	326.2
77.5°	285.2	301.0	308.9	308.9	299.4	267.9	253.7	233.2	215.9	195.4	198.6
80°	200.1	211.2	223.8	222.2	206.4	190.7	170.2	151.3	137.1	121.3	119.8
82.5°	149.7	156.0	162.3	159.2	148.1	132.4	118.2	100.9	85.1	74.1	74.1
85°	53.6	58.3	70.9	74.1	80.4	80.4	67.8	56.7	45.7	37.8	37.8
87.5°	15.8	15.8	17.3	17.3	15.8	17.3	14.2	15.8	17.3	11.0	11.0
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)