

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: P652215

Luminaire Tested: **GALN-SA2B-840-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9717.8 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

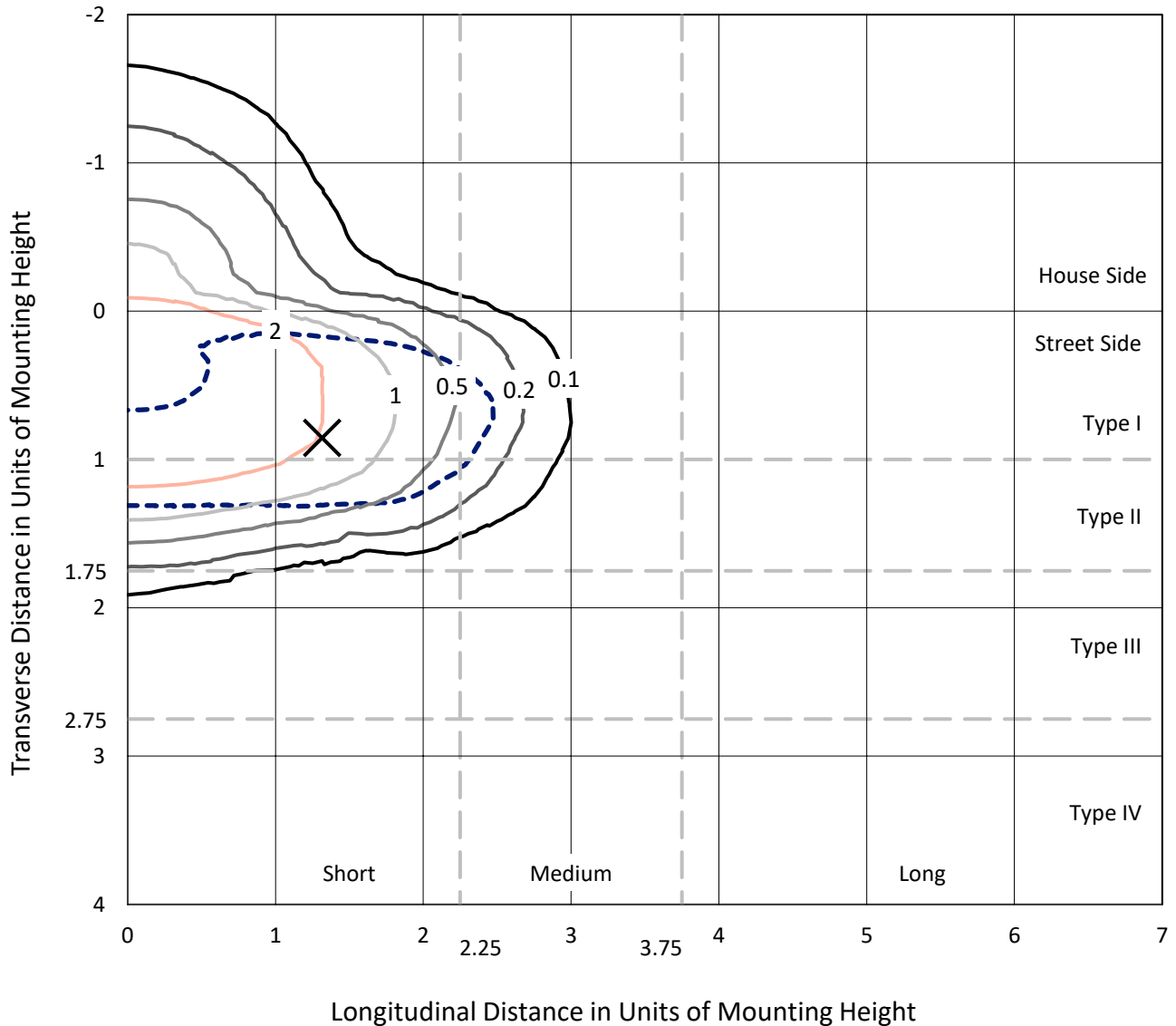
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

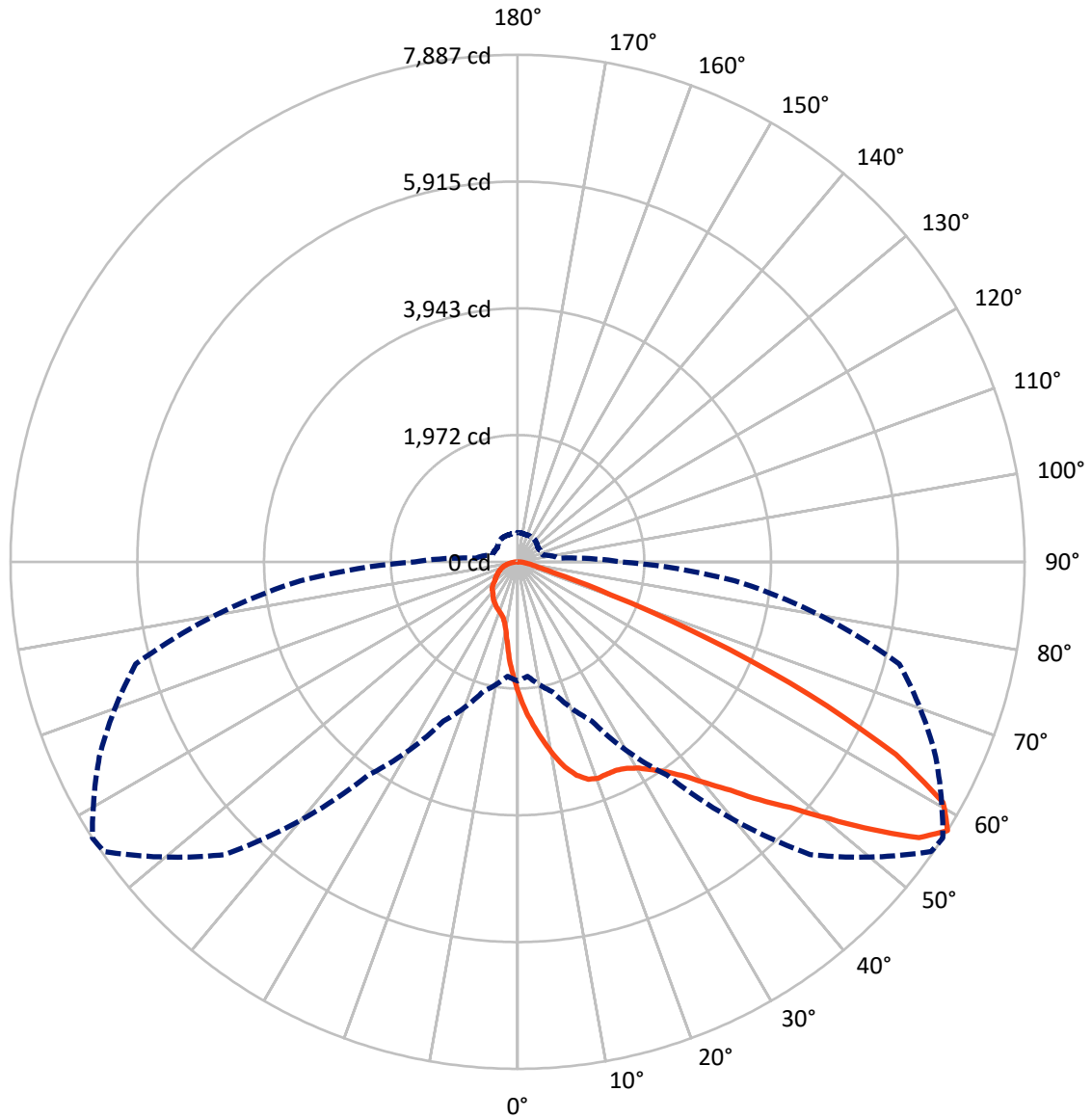
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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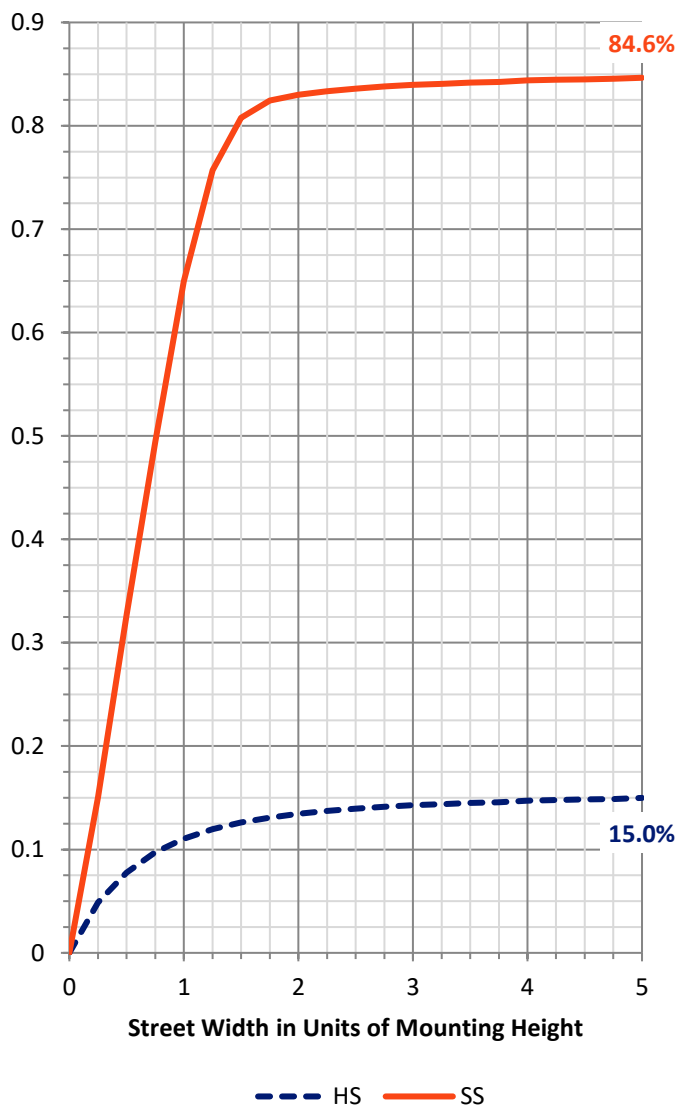
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1477.8	0.0	1477.8
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	8240.0	0.0	8240.0
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	9717.8	0.0	9717.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.2	2.0
10°-20°	578.3	6.0
20°-30°	960.2	9.9
30°-40°	1446.4	14.9
40°-50°	2171.6	22.3
50°-60°	2434.1	25.0
60°-70°	1424.5	14.7
70°-80°	421.4	4.3
80°-90°	85.2	0.9
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°	9717.8	100.0
0°-180°	9717.8	100.0

**Coefficient of Utilization**

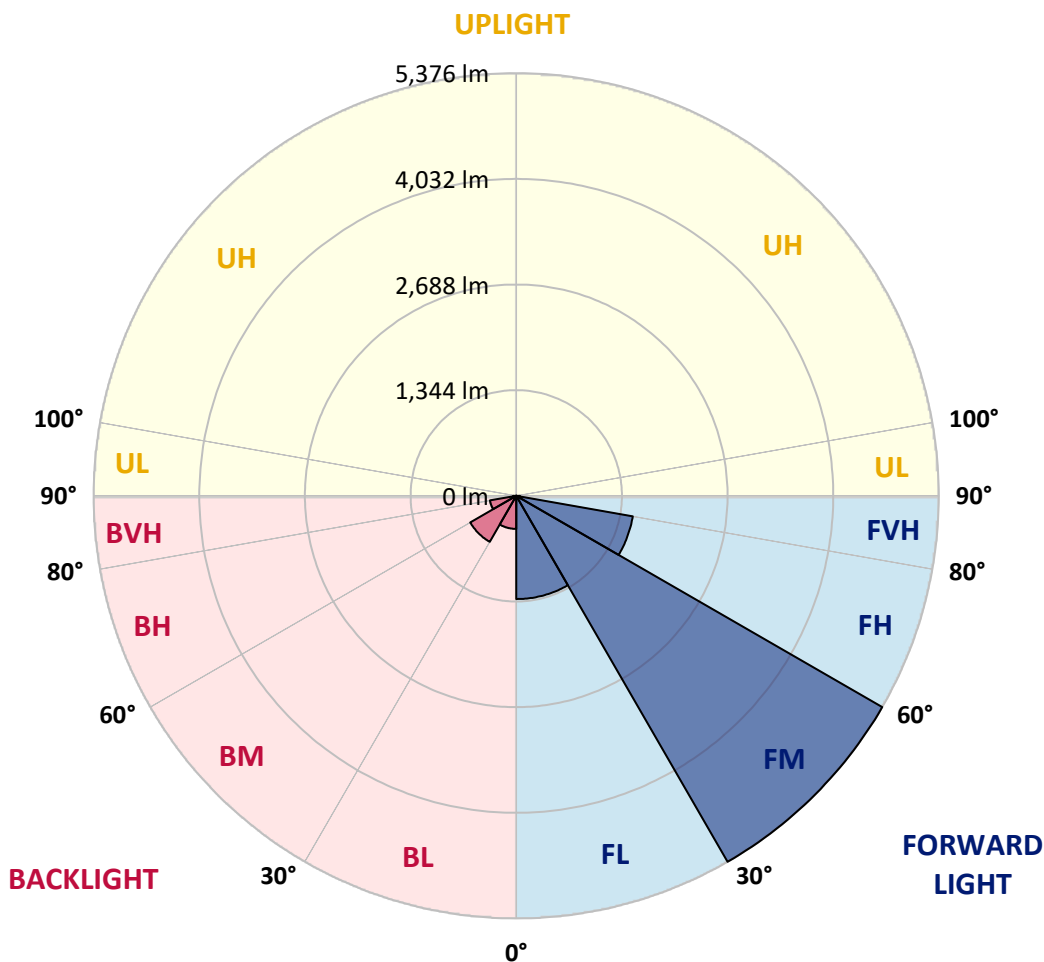


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1313.6	13.5			
FM (30°-60°)	5376.3	55.3			
FH (60°-80°)	1505.9	15.5			G1/1800
FVH (80°-90°)	44.2	0.5			G1/100
BL (0°-30°)	421.1	4.3	B1/500		
BM (30°-60°)	675.7	7.0	B1/1000		
BH (60°-80°)	340.0	3.5	B1/500		G1/500
BVH (80°-90°)	41.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2041.6	2041.6	2041.6	2041.6	2041.6	2041.6	2041.6	2041.6	2041.6	2041.6	2041.6
2.5°	2536.8	2509.1	2487.3	2468.2	2443.2	2375.7	2308.1	2307.0	2253.3	2170.3	2085.2
5°	2950.1	2912.9	2917.7	2858.1	2798.5	2700.7	2557.6	2550.2	2435.8	2280.5	2122.4
7.5°	3219.3	3219.9	3205.0	3170.9	3106.6	2995.4	2833.1	2796.4	2637.4	2401.7	2165.0
10°	3205.5	3219.9	3244.8	3274.1	3293.8	3239.0	3091.1	3046.4	2839.5	2548.6	2212.3
12.5°	3021.5	3043.7	3079.4	3152.8	3271.4	3361.9	3311.4	3275.2	3073.5	2694.8	2264.5
15°	2906.5	2919.8	2939.5	2989.0	3116.7	3333.1	3464.0	3444.8	3294.3	2860.2	2323.0
17.5°	2871.4	2884.7	2891.1	2921.4	3012.4	3234.2	3524.1	3558.2	3490.1	3012.4	2382.0
20°	2906.5	2912.9	2912.9	2931.0	3002.3	3176.2	3521.4	3590.1	3650.7	3194.9	2437.4
22.5°	2998.6	3001.2	2997.5	3003.9	3057.0	3192.2	3496.5	3581.6	3780.5	3349.6	2480.4
25°	3148.0	3152.3	3127.8	3112.9	3151.7	3262.4	3510.2	3588.5	3882.1	3497.6	2509.1
27.5°	3317.7	3323.0	3293.3	3258.7	3276.8	3349.1	3564.5	3634.7	3958.2	3643.3	2527.3
30°	3525.7	3527.8	3477.9	3436.3	3424.6	3478.4	3657.1	3722.5	4052.9	3815.1	2554.4
32.5°	3738.5	3754.5	3690.1	3631.5	3611.8	3628.4	3793.8	3857.1	4165.6	3999.6	2598.0
35°	4027.9	4030.5	3953.4	3882.1	3817.2	3838.5	3968.8	4014.6	4321.5	4213.0	2659.7
37.5°	4389.0	4413.5	4307.1	4174.1	4094.3	4063.5	4180.5	4230.6	4540.1	4474.7	2752.8
40°	4790.2	4799.2	4708.2	4625.2	4479.5	4390.1	4470.9	4525.3	4809.8	4787.0	2860.7
42.5°	5042.3	5062.0	5068.9	5060.4	4950.8	4800.8	4831.6	4857.1	5129.0	5080.1	2971.4
45°	5127.4	5156.7	5255.6	5465.2	5476.8	5329.0	5257.2	5281.6	5476.8	5375.8	3077.3
47.5°	4986.4	5036.4	5218.9	5648.7	5970.5	5981.7	5765.1	5711.5	5793.9	5621.0	3153.9
50°	4622.1	4632.6	4911.9	5534.3	6201.9	6605.6	6381.7	6281.7	6095.0	5802.4	3206.6
52.5°	4058.2	4070.4	4304.5	5002.9	6059.3	7041.9	7103.0	6924.3	6400.9	5943.3	3241.1
55°	3012.4	3083.1	3340.6	4015.6	5383.7	7000.9	7676.5	7574.8	6770.6	6055.1	3295.4
57.5°	1852.2	1787.3	2092.7	2732.1	4049.2	6438.1	7853.6	7886.6	7177.5	6148.7	3386.4
60°	852.2	865.0	991.0	1409.1	2468.2	5036.4	7397.2	7605.7	7402.5	6145.5	3409.2
62.5°	587.3	575.6	543.6	618.6	1125.6	3185.3	6248.2	6601.3	6951.4	5954.5	3318.2
65°	525.0	513.3	451.6	430.8	517.0	1388.4	4542.2	4988.0	5852.9	5472.6	3091.6
67.5°	490.5	474.5	410.7	370.2	369.2	552.7	2678.3	3215.1	4341.2	4626.8	2678.8
70°	454.3	441.5	378.2	333.5	314.4	347.3	1177.1	1541.0	2818.8	3334.2	2086.8
72.5°	418.1	403.2	346.3	298.4	273.4	260.1	451.1	586.8	1592.6	1999.1	1279.3
75°	365.4	358.0	309.6	270.2	243.1	210.1	286.2	326.6	761.8	918.1	642.0
77.5°	319.7	311.8	275.0	236.2	216.5	170.7	203.2	221.9	321.3	372.4	289.9
80°	234.1	242.0	231.9	208.5	193.1	134.1	136.7	152.1	191.0	211.2	177.1
82.5°	148.4	163.3	178.7	160.6	146.2	105.9	94.7	100.5	130.4	138.3	78.7
85°	62.2	63.3	103.7	97.9	83.5	62.7	56.9	60.1	69.7	72.9	36.7
87.5°	24.0	23.4	36.7	34.1	26.1	18.1	18.1	20.2	27.7	25.6	11.7
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°	2041.6	2041.6	2041.6	2041.6	2041.6	2041.6	2041.6	2041.6	2041.6	2041.6	2041.6
2.5°	2048.5	2010.7	1935.7	1842.6	1774.6	1698.0	1630.4	1582.0	1563.9	1555.4	1539.5
5°	2046.9	1972.4	1817.1	1654.3	1523.5	1389.4	1276.1	1202.7	1196.3	1147.4	1142.6
7.5°	2047.4	1933.6	1686.3	1446.9	1247.4	1110.1	1016.5	992.0	962.8	955.4	959.1
10°	2049.0	1884.2	1545.8	1241.6	1048.5	958.6	923.4	913.9	914.9	918.1	918.6
12.5°	2051.2	1836.2	1400.1	1085.7	936.8	899.5	895.7	904.3	913.3	920.2	921.8
15°	2053.8	1781.5	1258.1	960.2	880.9	877.7	889.9	904.3	917.0	927.2	928.8
17.5°	2050.6	1717.7	1138.9	883.0	850.1	865.5	885.7	903.7	915.4	925.0	926.1
20°	2043.2	1646.3	1024.0	828.8	830.9	855.9	877.7	894.7	907.5	912.3	916.0
22.5°	2014.4	1561.2	924.0	786.8	808.0	842.6	868.7	878.8	864.4	854.3	857.0
25°	1965.5	1450.6	830.9	752.7	787.3	824.0	850.6	826.1	814.4	810.1	812.2
27.5°	1904.4	1329.3	760.7	717.0	760.7	803.2	795.8	791.5	786.2	779.3	780.9
30°	1838.4	1210.7	701.1	689.4	731.9	756.4	759.6	766.5	760.7	750.0	754.3
32.5°	1777.2	1099.0	655.9	666.0	711.7	708.0	731.9	739.9	712.8	677.2	678.8
35°	1725.1	995.2	621.8	643.1	677.2	678.8	702.7	675.1	645.8	628.7	629.8
37.5°	1685.7	914.4	599.5	623.4	633.0	653.2	640.4	626.1	622.3	610.7	611.2
40°	1662.3	843.7	585.2	608.0	606.4	620.2	579.3	593.7	599.0	595.3	595.8
42.5°	1638.9	793.7	570.3	586.8	586.2	559.1	550.0	562.3	576.1	577.7	576.6
45°	1620.3	754.8	554.8	554.3	564.9	522.3	519.7	527.1	546.8	556.4	555.9
47.5°	1599.6	722.3	531.4	516.5	519.7	499.5	495.3	498.5	522.3	537.8	542.0
50°	1573.5	690.0	502.2	482.0	468.6	478.2	479.3	479.8	503.8	521.3	525.0
52.5°	1552.7	665.5	468.6	453.7	437.8	459.1	467.0	468.1	482.5	496.9	499.5
55°	1564.9	651.6	435.6	425.0	410.7	439.4	454.8	456.9	460.1	470.8	472.4
57.5°	1601.7	654.8	409.1	395.3	384.6	416.0	442.0	443.6	441.5	454.3	456.4
60°	1612.9	653.2	389.4	362.2	355.8	391.0	423.4	426.6	426.1	444.7	448.4
62.5°	1566.0	633.0	369.7	334.5	330.3	365.4	397.4	410.2	412.8	439.4	444.1
65°	1455.9	591.6	343.6	305.4	305.4	338.3	372.4	389.9	397.4	433.0	438.3
67.5°	1310.7	542.6	317.1	280.3	279.3	312.3	345.7	363.8	375.6	423.9	427.1
70°	1087.8	476.6	284.1	253.2	253.2	283.0	313.3	335.1	352.1	407.0	407.0
72.5°	745.2	396.3	244.1	222.4	222.9	250.5	281.4	305.9	326.1	372.9	374.0
75°	471.3	309.6	200.6	189.4	191.5	217.6	249.4	275.0	315.5	368.6	370.2
77.5°	250.5	217.6	159.6	156.9	159.6	183.5	219.2	254.2	316.5	319.7	314.4
80°	162.2	154.2	126.1	120.8	121.8	147.8	195.2	241.5	254.2	257.4	245.7
82.5°	88.3	97.9	89.4	84.0	84.0	115.5	166.5	192.0	182.5	151.6	144.7
85°	37.8	45.8	46.3	40.5	38.9	71.3	111.7	104.8	97.3	93.1	92.0
87.5°	10.7	14.9	14.9	11.2	8.5	19.7	22.4	6.4	0.0	0.5	1.1
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)