

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: P452244

Luminaire Tested: **GALN-SA3A-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452244
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-SA3A-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11101 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

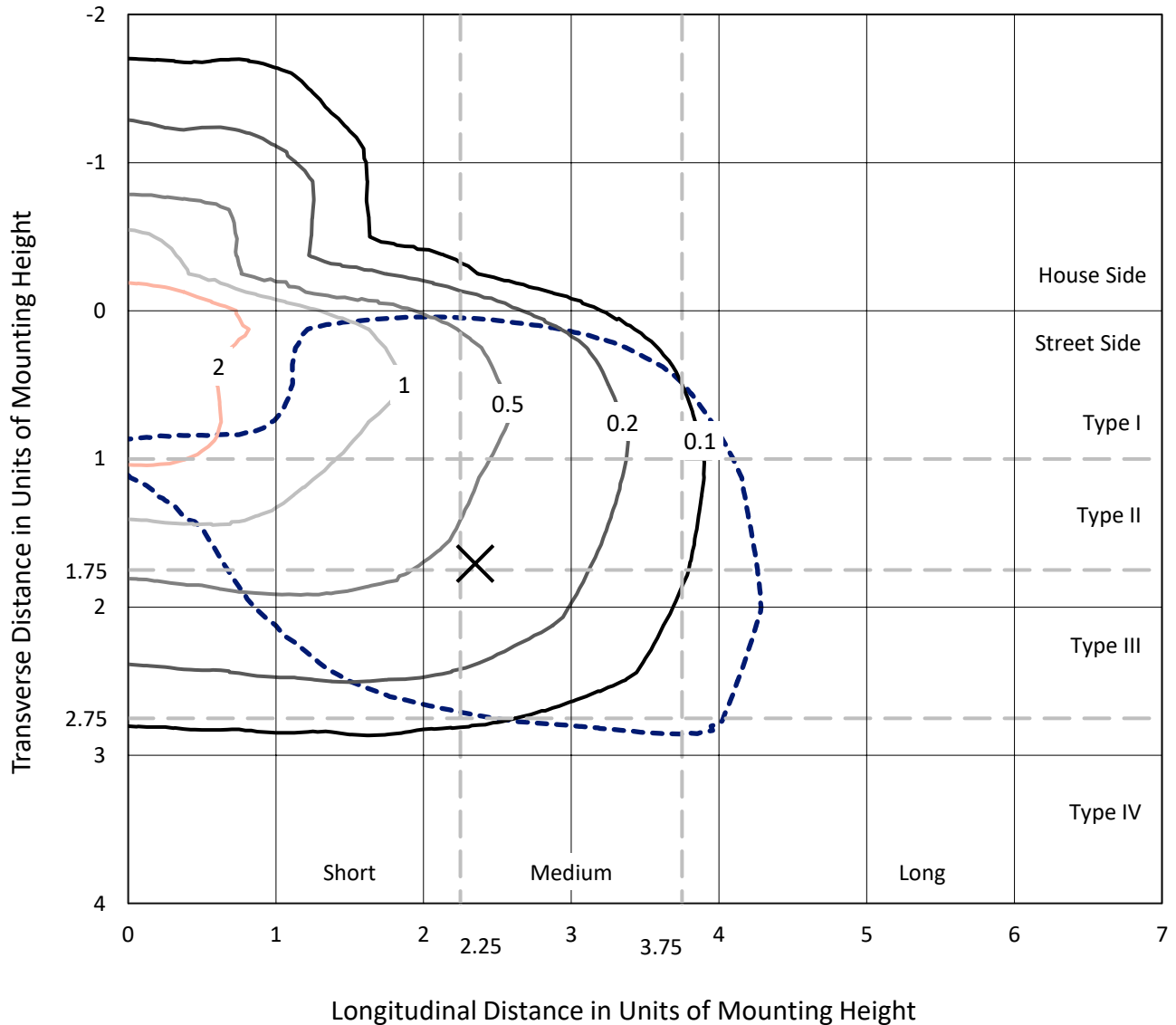
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452244
 CATALOG NUMBER: GALN-SA3A-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

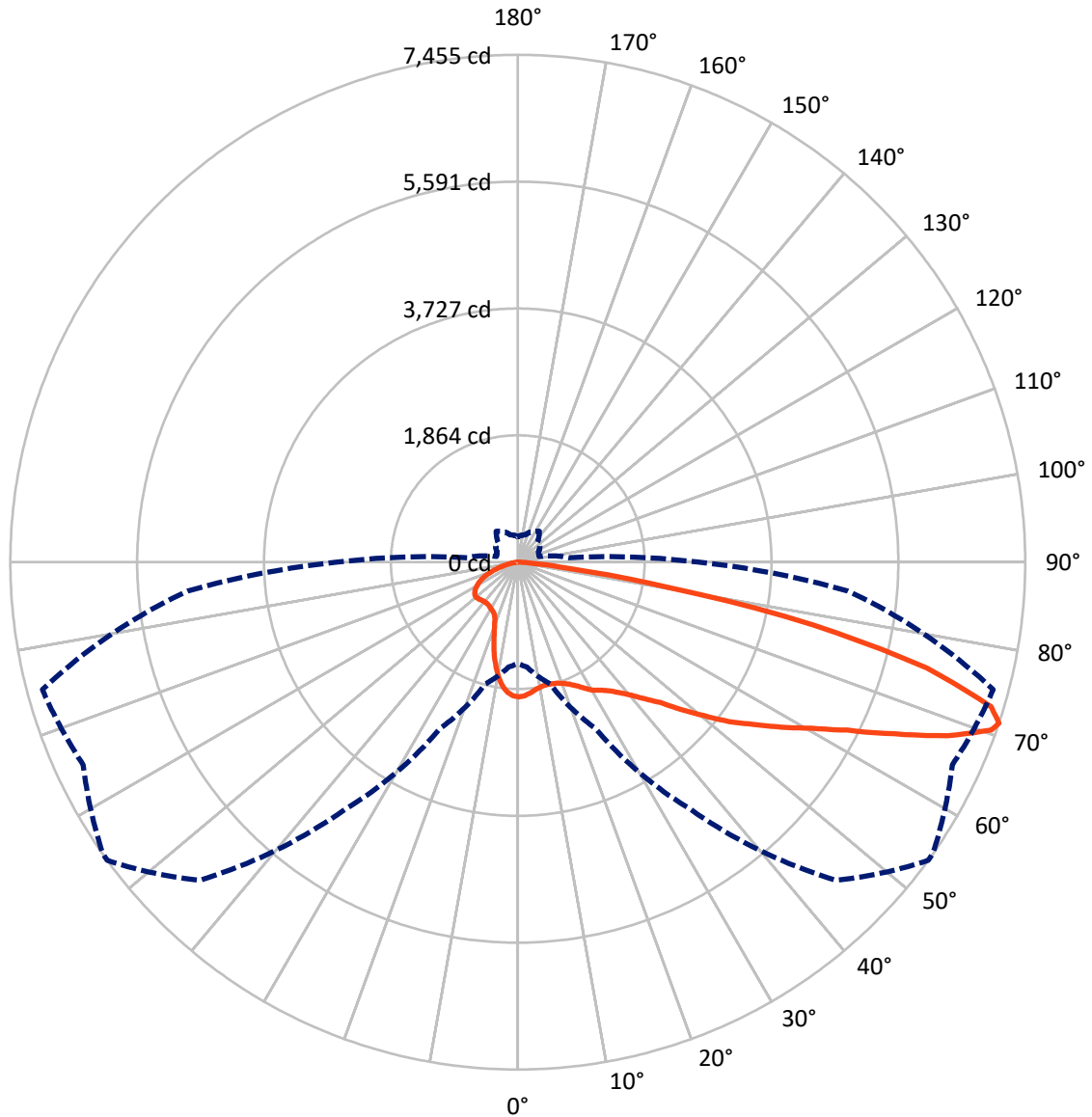
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P452244
CATALOG NUMBER: GALN-SA3A-830-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452244

CATALOG NUMBER: GALN-SA3A-830-U-T3R

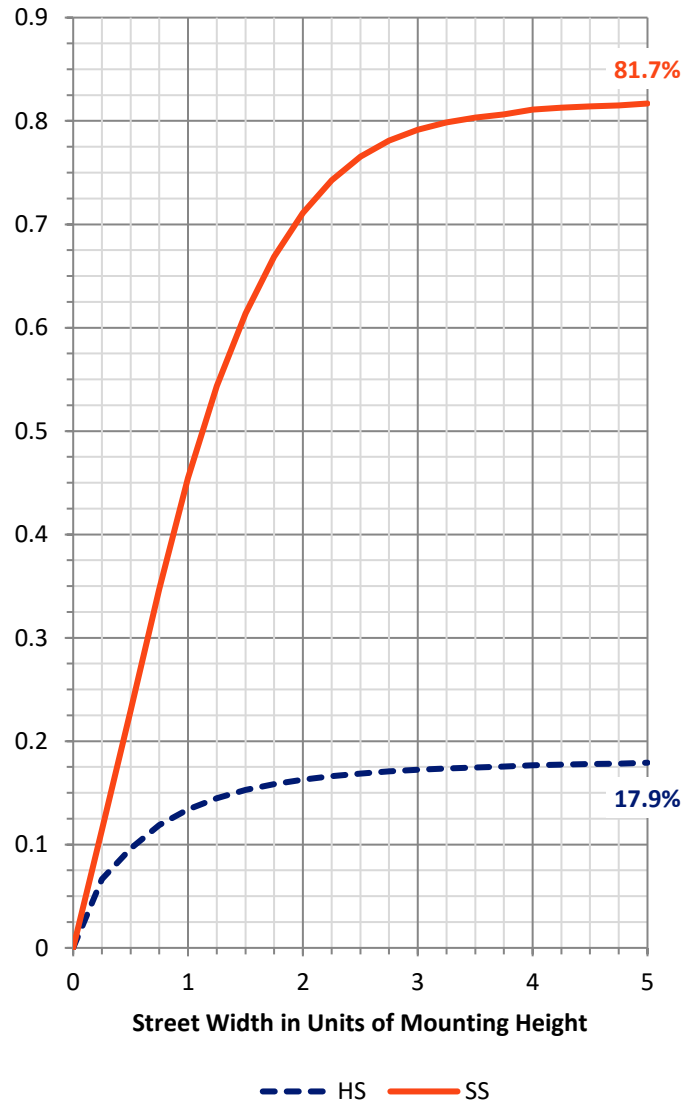
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2004.2	0.0	2004.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9096.8	0.0	9096.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	11101.0	0.0	11101.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	1.6
10°-20°	466.0	4.2
20°-30°	776.0	7.0
30°-40°	1147.4	10.3
40°-50°	1616.2	14.6
50°-60°	2164.2	19.5
60°-70°	2727.8	24.6
70°-80°	1863.1	16.8
80°-90°	163.8	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°	11101.0	100.0
0°-180°	11101.0	100.0



REPORT NUMBER: P452244

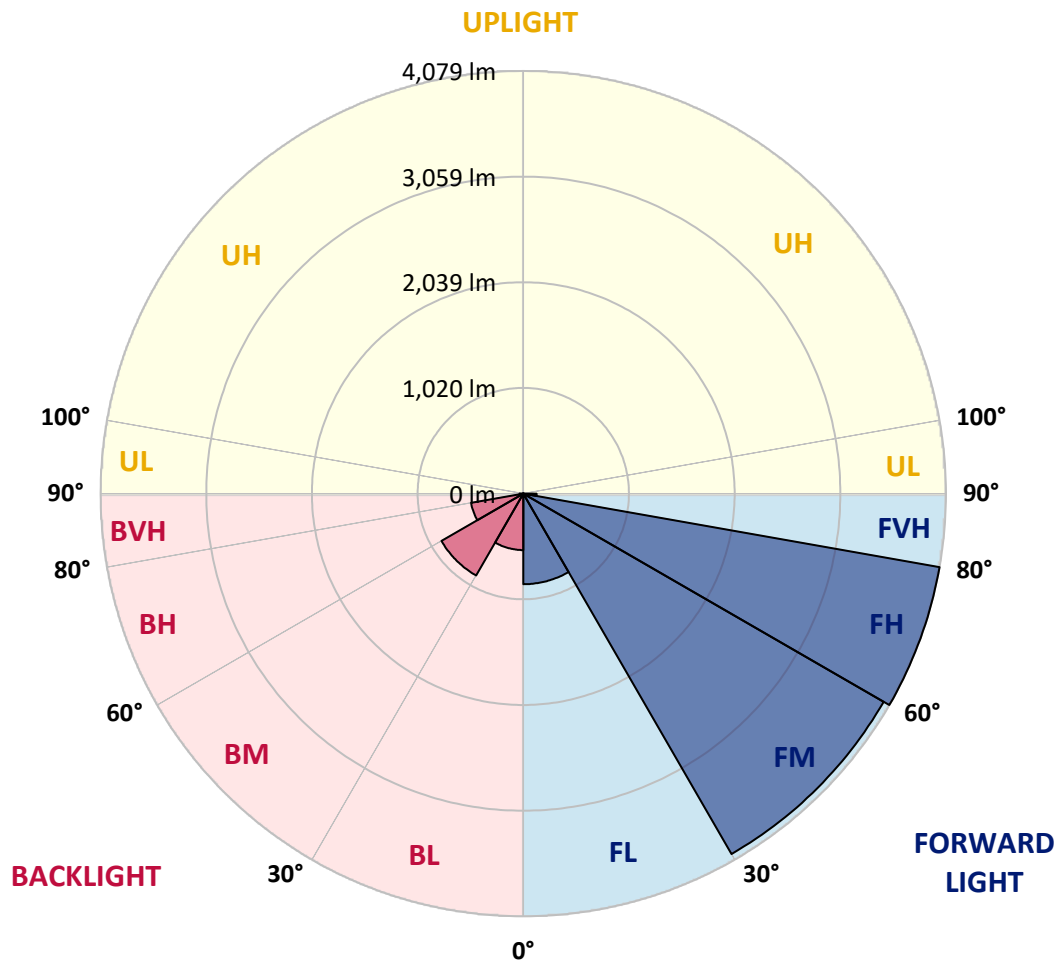
CATALOG NUMBER: GALN-SA3A-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	873.8	7.9			
FM	(30°-60°)	4015.9	36.2			
FH	(60°-80°)	4078.9	36.7			G2/5000
FVH	(80°-90°)	128.1	1.2			G2/225
BL	(0°-30°)	544.7	4.9	B2/1000		
BM	(30°-60°)	911.9	8.2	B1/1000		
BH	(60°-80°)	511.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	35.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium





REPORT NUMBER: P452244

CATALOG NUMBER: GALN-SA3A-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1980.6	1980.6	1980.6	1980.6	1980.6	1980.6	1980.6	1980.6	1980.6	1980.6	1980.6
2.5°	1913.4	1922.4	1924.8	1930.8	1943.4	1953.6	1963.8	1962.6	1977.0	1983.0	1988.4
5°	1828.3	1830.7	1839.7	1851.7	1873.8	1902.0	1929.6	1930.2	1965.6	1993.8	2007.6
7.5°	1765.9	1773.7	1779.7	1792.3	1815.7	1846.3	1890.0	1893.6	1956.6	2012.4	2041.7
10°	1725.1	1734.1	1740.7	1756.3	1779.7	1813.9	1861.3	1867.9	1950.0	2041.7	2093.3
12.5°	1688.0	1697.0	1703.0	1723.3	1753.9	1795.9	1849.3	1857.1	1952.4	2075.9	2149.7
15°	1710.7	1717.9	1715.5	1721.5	1741.9	1789.9	1854.1	1861.9	1961.4	2108.9	2205.4
17.5°	1812.1	1818.1	1798.3	1775.5	1765.9	1801.3	1869.1	1877.4	1979.4	2143.1	2262.4
20°	1961.4	1977.6	1934.4	1883.4	1837.3	1842.1	1900.2	1909.2	2004.6	2177.3	2320.6
22.5°	2155.7	2167.7	2114.9	2031.0	1945.8	1902.0	1947.0	1952.4	2042.3	2221.6	2384.1
25°	2384.1	2391.3	2318.2	2210.2	2087.3	2004.6	2011.2	2020.8	2104.7	2272.0	2440.5
27.5°	2606.0	2628.8	2544.2	2412.3	2250.4	2112.5	2099.3	2105.3	2172.5	2300.2	2479.5
30°	2869.2	2867.4	2778.1	2625.2	2417.7	2230.0	2182.7	2181.5	2209.0	2314.0	2507.7
32.5°	3079.1	3103.7	3016.1	2849.4	2609.0	2351.8	2240.2	2237.8	2237.2	2338.0	2549.6
35°	3317.8	3321.4	3241.0	3073.1	2815.9	2504.7	2320.6	2308.6	2294.8	2389.5	2606.6
37.5°	3531.2	3548.0	3474.3	3286.0	3019.1	2663.6	2430.9	2423.1	2381.1	2478.9	2697.7
40°	3697.9	3710.5	3666.1	3486.9	3219.4	2835.1	2571.2	2556.8	2505.9	2625.2	2819.5
42.5°	3752.5	3778.3	3795.7	3707.5	3449.7	3038.3	2743.9	2725.9	2686.9	2847.1	2959.8
45°	3756.7	3797.5	3889.2	3893.4	3681.1	3281.8	2945.4	2932.8	2929.8	3131.3	3157.1
47.5°	3724.9	3766.3	3920.4	4003.7	3887.4	3527.6	3236.2	3216.4	3218.2	3482.7	3378.3
50°	3648.2	3697.3	3884.4	4074.5	4048.7	3783.1	3543.2	3536.6	3573.8	3883.8	3608.0
52.5°	3503.6	3563.0	3847.2	4118.9	4168.6	4003.1	3892.2	3873.6	3967.8	4319.1	3859.2
55°	3103.7	3193.0	3711.1	4143.5	4282.6	4213.6	4206.4	4240.0	4364.7	4794.1	4135.7
57.5°	2895.0	2962.2	3415.5	4147.7	4426.5	4458.3	4573.4	4581.8	4800.0	5298.3	4448.1
60°	2781.1	2840.5	3253.6	4120.1	4627.4	4761.1	4948.8	4978.7	5225.2	5844.6	4771.9
62.5°	2681.6	2732.5	3156.5	4024.7	4854.0	5210.2	5435.1	5449.5	5707.9	6447.8	5091.5
65°	2447.1	2505.3	2961.0	3929.4	5049.5	5771.5	6080.3	6063.5	6221.8	6968.3	5291.7
67.5°	2131.1	2204.8	2595.8	3600.2	5146.0	6384.9	6807.0	6786.0	6729.1	7309.5	5349.3
70°	1727.5	1767.1	2128.7	3031.1	4760.5	6706.9	7380.9	7358.7	7043.3	7354.5	5077.1
71°	1486.5	1548.2	1853.5	2692.3	4439.7	6608.5	7454.6	7448.6	7043.9	7230.4	4872.0
72.5°	1160.3	1198.1	1467.9	2086.1	3773.5	6049.7	7272.3	7295.1	6891.0	6885.6	4449.3
75°	733.9	750.7	921.0	1228.0	2070.5	4284.4	6208.0	6269.7	6118.6	5635.9	3308.8
77.5°	426.3	447.9	551.7	723.8	894.7	2325.4	4442.1	4509.2	4251.4	3103.1	1354.6
80°	248.2	272.2	363.4	420.3	410.7	862.9	2261.8	2376.3	1840.9	783.7	380.2
82.5°	137.9	154.1	255.4	256.0	218.9	281.8	711.8	744.7	525.3	316.0	155.3
85°	100.1	113.3	164.9	149.3	104.9	121.1	247.6	259.6	212.3	133.1	50.4
87.5°	35.4	50.4	90.5	72.0	28.8	25.2	71.4	58.2	54.0	37.2	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452244
 CATALOG NUMBER: GALN-SA3A-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1980.6	1980.6	1980.6	1980.6	1980.6	1980.6	1980.6	1980.6	1980.6	1980.6	1980.6
2.5°	1991.4	1992.6	1986.6	1975.8	1965.0	1951.2	1935.6	1923.6	1918.2	1917.6	1917.0
5°	2013.0	2016.0	1993.2	1959.6	1922.4	1876.8	1837.9	1793.5	1782.1	1764.1	1769.5
7.5°	2047.7	2045.9	2001.0	1929.6	1842.7	1746.1	1664.6	1617.2	1568.0	1554.2	1554.8
10°	2097.5	2086.1	2001.0	1868.5	1723.3	1580.0	1466.1	1394.1	1355.2	1322.8	1310.8
12.5°	2150.3	2121.5	1981.8	1782.7	1569.8	1394.1	1271.8	1174.7	1149.5	1123.1	1123.7
15°	2200.6	2152.7	1944.0	1662.2	1404.3	1195.7	1076.9	1018.8	1011.0	1014.0	1013.4
17.5°	2246.2	2174.9	1886.4	1527.9	1211.3	1025.4	962.4	966.6	987.6	1002.6	1004.4
20°	2292.4	2188.1	1800.7	1348.0	1029.0	922.2	924.6	957.6	989.4	1009.8	1012.8
22.5°	2336.2	2194.1	1700.0	1174.1	897.0	878.5	913.8	949.2	980.4	1000.2	1003.2
25°	2364.9	2180.3	1557.2	992.4	832.3	862.9	900.0	930.0	956.4	976.8	981.6
27.5°	2372.7	2135.9	1380.4	845.5	802.3	847.9	882.1	904.2	924.6	943.8	947.4
30°	2368.5	2070.5	1186.1	759.1	784.9	830.5	856.9	873.1	897.6	912.6	915.6
32.5°	2361.9	1994.4	983.4	713.0	770.5	814.3	829.9	844.3	843.7	837.7	841.9
35°	2364.3	1903.2	819.1	685.4	757.9	802.3	815.5	797.5	745.9	743.5	741.1
37.5°	2376.9	1813.3	699.8	666.2	751.3	800.5	807.7	725.0	679.4	658.4	653.0
40°	2409.3	1708.4	621.2	651.8	750.7	814.3	772.3	688.4	600.8	560.1	557.1
42.5°	2452.5	1605.2	573.2	642.8	757.9	835.3	757.9	636.8	541.5	517.5	513.9
45°	2516.7	1487.1	546.9	638.6	768.7	843.1	753.1	599.0	517.5	498.3	498.3
47.5°	2589.2	1374.4	532.5	635.6	782.5	837.7	710.6	587.0	506.1	508.5	519.9
50°	2661.2	1276.6	521.7	629.0	794.5	834.7	693.2	586.4	509.1	539.7	560.1
52.5°	2744.5	1207.7	508.5	618.2	794.5	815.5	687.8	598.4	517.5	526.5	535.5
55°	2845.3	1186.1	491.7	594.8	780.1	767.5	684.8	615.8	523.5	502.5	506.1
57.5°	2978.4	1220.8	475.5	565.5	747.1	717.8	683.6	620.6	509.7	492.3	488.7
60°	3133.1	1289.8	470.7	535.5	702.2	675.2	676.4	606.8	490.5	472.5	475.5
62.5°	3241.6	1331.2	467.7	512.7	653.0	628.4	659.0	590.0	482.1	466.5	469.5
65°	3241.6	1280.8	440.1	477.9	589.4	572.0	638.0	569.1	471.3	453.3	450.3
67.5°	3118.7	1133.9	398.2	425.7	519.3	507.9	608.6	543.9	455.1	441.3	434.1
70°	2798.5	859.9	345.4	364.6	430.5	440.7	570.8	509.7	428.1	411.3	400.6
71°	2657.6	748.9	323.2	333.4	396.4	411.3	552.9	495.3	416.1	392.2	373.0
72.5°	2385.9	630.8	289.6	293.8	338.8	365.8	515.1	467.7	393.4	359.2	337.6
75°	1812.7	460.5	233.3	230.9	250.6	290.2	435.9	416.7	344.8	298.6	286.0
77.5°	783.1	250.6	174.5	176.3	170.3	220.1	343.0	358.0	295.6	242.9	231.5
80°	237.5	144.5	119.3	121.7	113.9	147.5	241.7	280.6	237.5	188.9	173.3
82.5°	121.7	86.3	81.5	80.4	72.6	83.3	146.3	191.9	169.7	118.1	104.3
85°	52.8	46.2	40.2	39.0	34.2	30.0	52.2	95.9	89.9	66.0	63.0
87.5°	13.2	12.0	7.8	7.2	4.2	0.6	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)