

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: P648290

Luminaire Tested: **GALN-SA2B-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648290
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-SA2B-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA 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: 7821.4 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

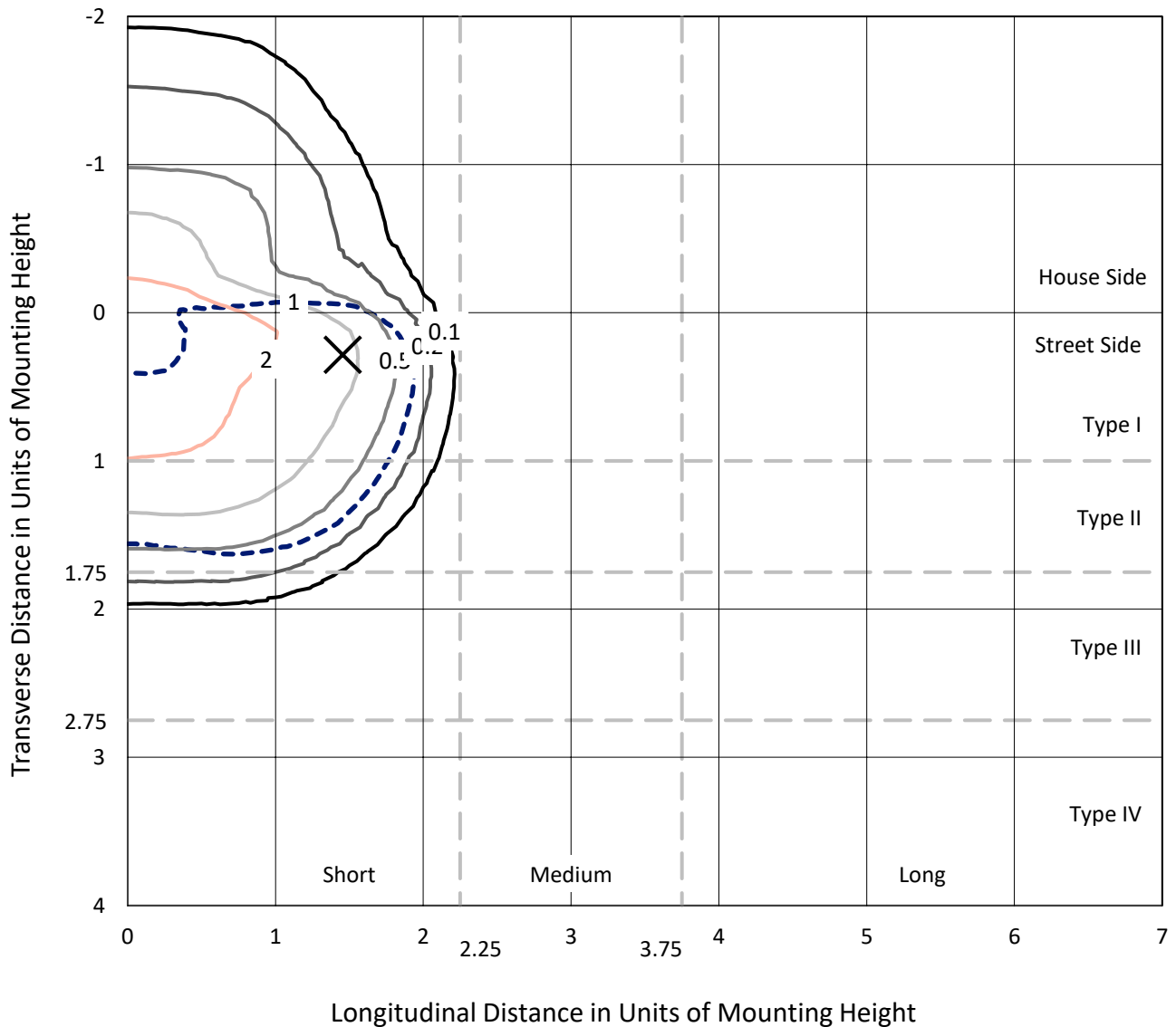
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

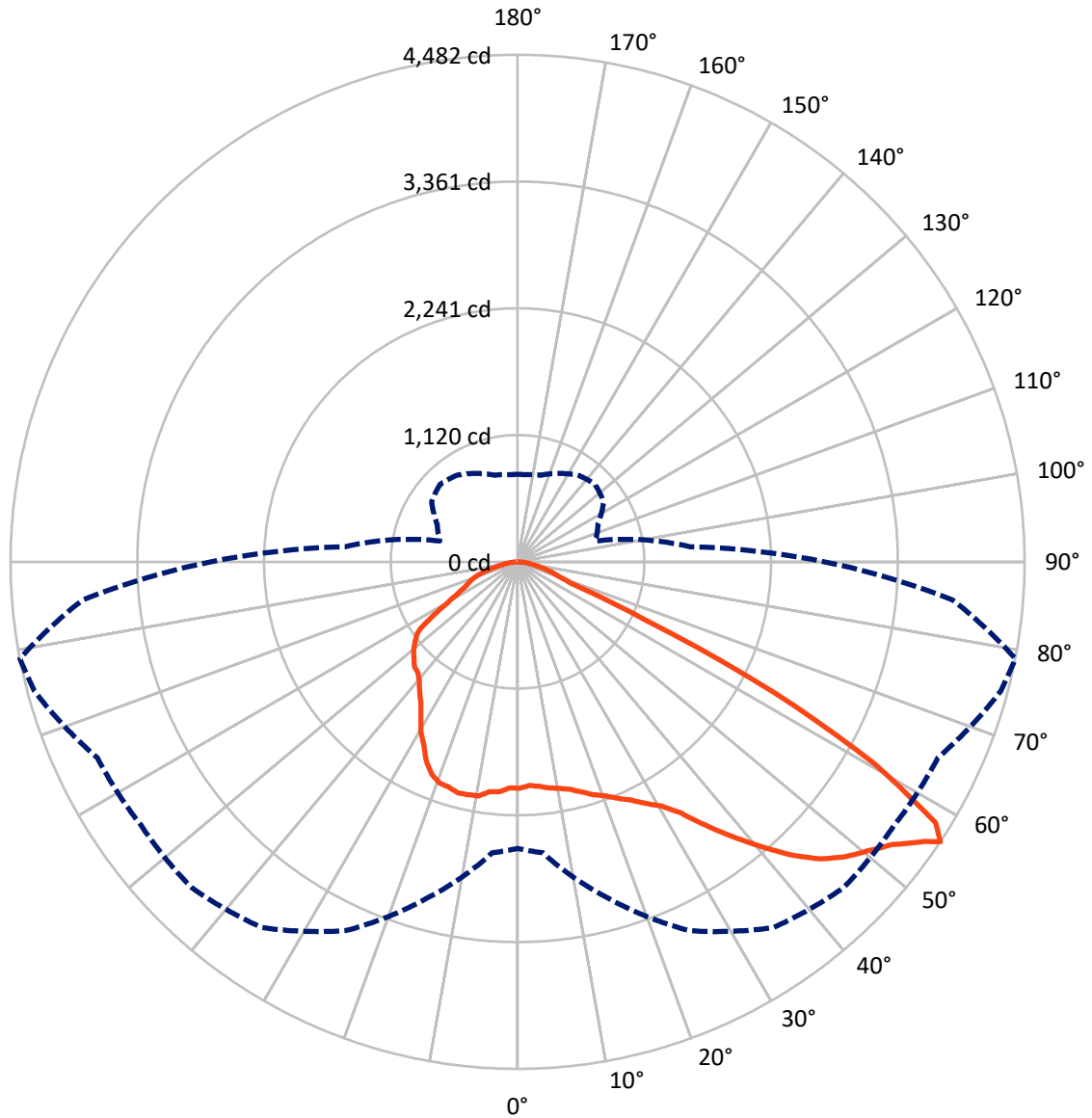
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P648290
CATALOG NUMBER: GALN-SA2B-835-U-T3R-GRSWH

Luminous Intensity Polar Plot



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

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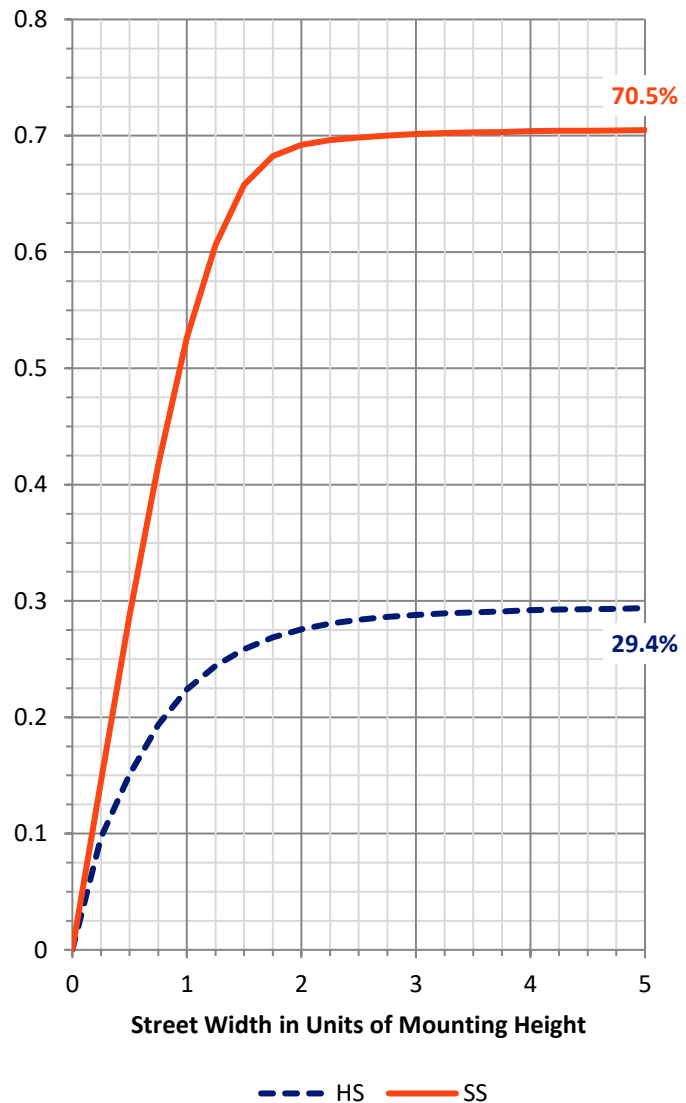
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2309.8	0.0	2309.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	5511.6	0.0	5511.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	7821.4	0.0	7821.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.9	2.3
10°-20°	497.9	6.4
20°-30°	851.9	10.9
30°-40°	1305.6	16.7
40°-50°	1764.5	22.6
50°-60°	2026.6	25.9
60°-70°	923.8	11.8
70°-80°	227.8	2.9
80°-90°	41.4	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°	7821.4	100.0
0°-180°	7821.4	100.0

Coefficient of Utilization

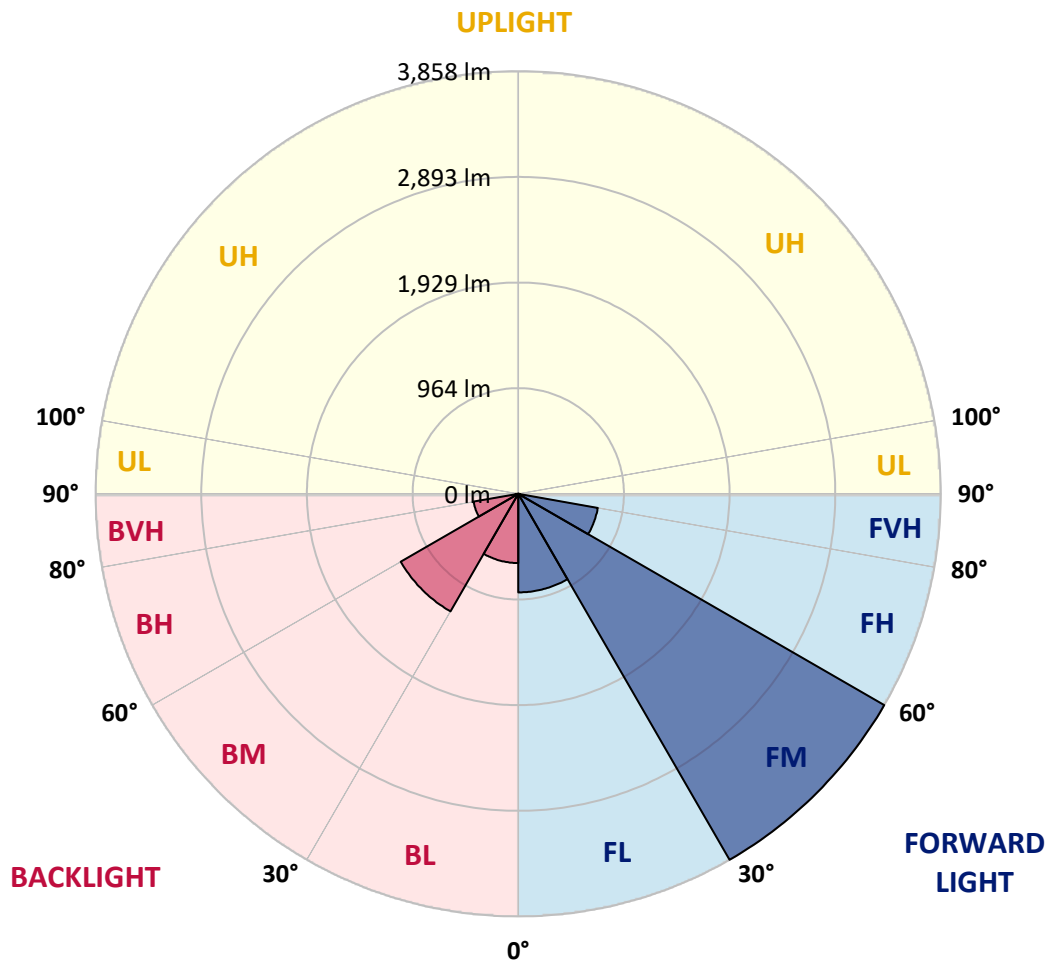


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.9	11.5			
FM (30°-60°)	3857.7	49.3			
FH (60°-80°)	737.4	9.4			G1/1800
FVH (80°-90°)	16.5	0.2			G1/100
BL (0°-30°)	631.8	8.1	B2/1000		
BM (30°-60°)	1239.0	15.8	B2/2500		
BH (60°-80°)	414.2	5.3	B1/500		G1/500
BVH (80°-90°)	24.9	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	1903.8	1898.9	1910.6	1919.4	1930.1	1943.7	1950.5	1954.4	1988.5	1979.7	2006.0
5°	1862.8	1850.2	1858.9	1865.7	1884.3	1900.8	1919.4	1948.6	1979.7	1993.4	2025.5
7.5°	1826.8	1819.9	1818.0	1822.9	1848.2	1869.6	1901.8	1944.7	1995.3	2017.7	2036.3
10°	1767.4	1757.6	1772.2	1804.3	1811.2	1856.0	1893.1	1954.4	1998.3	2037.2	2091.8
12.5°	1741.1	1731.3	1734.3	1752.7	1800.5	1843.3	1887.2	1956.4	2049.0	2064.5	2137.6
15°	1783.0	1773.2	1776.2	1771.2	1817.0	1839.4	1908.6	1995.3	2084.0	2110.3	2188.3
17.5°	1878.4	1879.4	1866.8	1856.0	1845.3	1893.1	1940.7	2018.7	2097.7	2163.9	2222.3
20°	2060.6	2028.4	2003.1	1942.7	1926.2	1946.6	2007.1	2082.1	2153.2	2207.7	2274.0
22.5°	2200.9	2203.8	2167.8	2068.4	2032.4	2041.1	2092.8	2154.1	2232.1	2271.1	2347.0
25°	2404.5	2384.1	2345.1	2266.2	2185.4	2192.2	2230.1	2285.7	2307.1	2334.4	2417.2
27.5°	2590.6	2596.5	2519.5	2445.5	2345.1	2325.6	2393.8	2403.6	2367.5	2419.2	2447.4
30°	2779.6	2774.8	2724.1	2637.4	2539.0	2542.9	2573.1	2525.3	2475.7	2503.9	2523.4
32.5°	2975.5	2920.0	2918.0	2840.0	2765.0	2729.0	2692.0	2715.4	2638.4	2644.2	2625.7
35°	3132.3	3140.1	3095.3	3039.8	3002.7	2939.4	2838.1	2880.0	2865.4	2858.6	2778.6
37.5°	3246.3	3216.1	3238.5	3220.0	3184.9	3106.0	3000.8	3040.8	3047.6	3080.7	2988.2
40°	3339.9	3327.2	3386.6	3396.3	3372.0	3201.5	3012.5	3131.4	3233.6	3305.7	3195.7
42.5°	3384.7	3411.9	3474.3	3549.3	3494.8	3312.6	3072.9	3200.5	3428.5	3542.5	3392.4
45°	3445.0	3410.0	3502.6	3639.9	3640.9	3406.1	3131.4	3294.1	3580.5	3746.1	3526.9
47.5°	3383.7	3401.2	3496.7	3671.1	3716.0	3504.5	3289.2	3426.6	3748.1	3895.2	3651.6
50°	3246.3	3281.4	3455.8	3637.0	3772.4	3608.8	3470.4	3569.8	3903.0	4015.1	3672.1
52.5°	3103.1	3122.6	3395.4	3663.3	3797.8	3743.2	3713.0	3767.6	4092.0	4150.4	3697.4
55°	2713.4	2806.0	3195.7	3651.6	3921.5	3985.8	3962.4	4042.3	4306.3	4364.8	3835.8
56°	2533.2	2581.9	3075.9	3597.1	3945.9	4074.5	4062.8	4098.8	4420.3	4481.7	3857.2
57.5°	2199.9	2203.8	2622.8	3355.5	3854.2	4100.8	4089.1	4117.3	4398.0	4356.1	3669.1
60°	1376.7	1437.0	1784.9	2580.8	3277.5	3804.6	3870.8	3643.8	3708.1	3619.5	2854.7
62.5°	713.2	704.4	935.3	1509.2	2175.6	2724.1	2785.4	2774.8	2675.4	2545.8	1864.8
65°	355.6	357.6	489.1	747.3	1114.6	1426.4	1597.8	1616.3	1352.3	1244.2	884.6
67.5°	258.2	267.9	351.7	457.0	525.2	587.5	720.0	706.3	534.9	508.6	471.5
70°	200.7	209.5	285.5	348.8	316.6	316.6	344.9	356.6	380.9	391.7	404.3
72.5°	146.1	153.0	218.2	240.6	207.5	223.1	258.2	285.5	310.8	314.7	329.3
75°	100.4	106.2	143.2	132.5	124.7	153.9	189.0	214.3	232.9	242.6	251.3
77.5°	65.3	67.3	81.8	69.1	79.9	99.4	122.8	144.2	162.7	170.5	172.4
80°	29.2	32.2	35.1	43.8	55.5	71.1	87.7	105.2	116.9	119.8	125.7
82.5°	16.6	16.6	21.5	31.2	41.0	51.6	63.3	76.0	89.7	92.6	91.6
85°	8.8	8.8	12.7	18.5	25.4	30.2	29.2	30.2	32.2	37.0	36.0
87.5°	2.9	2.9	3.9	3.9	4.9	5.9	4.9	6.8	8.8	8.8	8.8
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: P648290

CATALOG NUMBER: GALN-SA2B-835-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	1998.3	2007.1	1995.3	2020.7	2020.7	2015.8	1991.4	1999.2	2005.1	2005.1	2010.0
5°	2036.3	2033.4	2041.1	2010.9	1992.4	1985.6	1945.7	1926.2	1909.6	1908.6	1894.0
7.5°	2057.7	2049.9	2047.0	2024.6	1942.7	1893.1	1807.3	1757.6	1746.9	1708.9	1723.5
10°	2091.8	2106.4	2091.8	1970.0	1856.0	1742.0	1658.2	1581.3	1551.0	1526.7	1512.1
12.5°	2161.9	2155.1	2070.3	1905.7	1745.9	1610.5	1485.8	1404.9	1374.7	1353.3	1351.3
15°	2221.4	2187.3	2057.7	1804.3	1574.5	1430.2	1328.0	1270.5	1256.8	1258.8	1267.5
17.5°	2241.8	2218.5	1991.4	1699.2	1446.8	1277.3	1229.5	1220.8	1233.5	1248.0	1251.9
20°	2274.0	2237.0	1964.2	1555.9	1289.0	1181.8	1178.9	1210.0	1233.5	1254.9	1257.8
22.5°	2341.2	2247.7	1875.5	1420.5	1180.8	1153.5	1181.8	1208.1	1244.2	1261.7	1246.1
25°	2360.7	2224.3	1750.8	1257.8	1112.6	1136.1	1166.2	1202.3	1227.6	1237.4	1244.2
27.5°	2377.3	2188.3	1582.2	1149.7	1091.2	1135.0	1166.2	1196.4	1210.0	1218.8	1226.6
30°	2424.0	2177.5	1436.1	1077.6	1077.6	1115.5	1155.5	1163.3	1181.8	1192.5	1206.1
32.5°	2447.4	2103.5	1286.1	1031.8	1063.9	1125.3	1128.2	1142.9	1143.8	1152.6	1137.9
35°	2508.8	2050.8	1146.7	998.6	1069.7	1115.5	1130.2	1121.4	1073.6	1050.3	1055.2
37.5°	2553.6	2024.6	1046.4	994.7	1070.8	1126.3	1134.1	1067.9	1018.1	979.1	988.9
40°	2674.4	1959.3	970.4	987.9	1079.5	1137.9	1116.6	1044.4	954.8	914.9	908.0
42.5°	2767.0	1912.6	922.7	980.2	1086.3	1154.5	1107.8	997.7	906.1	869.1	878.8
45°	2874.2	1901.8	897.3	982.1	1098.0	1163.3	1097.1	961.6	864.2	849.6	846.7
47.5°	2912.1	1824.9	870.1	965.5	1095.1	1160.4	1061.0	934.4	848.6	850.6	858.3
50°	2848.8	1745.9	849.6	931.4	1075.6	1134.1	1004.5	898.3	839.8	864.2	877.8
52.5°	2768.0	1665.0	807.7	885.7	1035.7	1093.1	978.2	896.4	831.1	823.2	826.2
55°	2792.3	1598.8	749.3	823.2	971.4	1017.1	948.9	877.8	809.6	780.4	790.1
56°	2713.4	1530.6	711.2	784.3	927.5	968.4	934.4	861.3	792.1	772.6	772.6
57.5°	2490.3	1301.7	661.6	721.9	835.0	883.7	906.1	851.5	772.6	738.5	739.5
60°	1836.5	925.6	593.4	636.2	691.8	730.7	835.0	824.3	723.9	700.6	691.8
62.5°	1132.1	676.1	544.7	561.2	589.4	621.6	728.7	746.3	672.3	646.9	641.0
65°	634.2	517.3	507.6	514.4	528.1	544.7	605.0	644.0	593.4	554.4	552.4
67.5°	463.8	462.8	470.6	476.5	482.2	482.2	496.9	512.5	505.7	474.5	471.5
70°	412.1	415.1	420.9	421.9	423.8	417.0	405.3	400.4	408.3	388.8	384.8
72.5°	340.1	349.8	356.6	357.6	346.9	338.1	322.5	305.9	300.0	296.2	295.2
75°	261.1	267.9	270.8	269.9	266.0	253.3	234.8	218.2	207.5	195.8	201.7
77.5°	176.3	186.1	191.0	191.0	185.1	165.6	156.8	144.2	133.5	120.8	122.8
80°	123.7	130.5	138.4	137.3	127.6	117.9	105.2	93.6	84.8	75.0	74.1
82.5°	92.6	96.5	100.4	98.4	91.6	81.8	73.1	62.3	52.6	45.8	45.8
85°	33.1	36.0	43.8	45.8	49.7	49.7	41.9	35.1	28.3	23.4	23.4
87.5°	9.7	9.7	10.7	10.7	9.7	10.7	8.8	9.7	10.7	6.8	6.8
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)