

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: P647362

Luminaire Tested: **GALN-SA3D-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P647362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18095.1 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

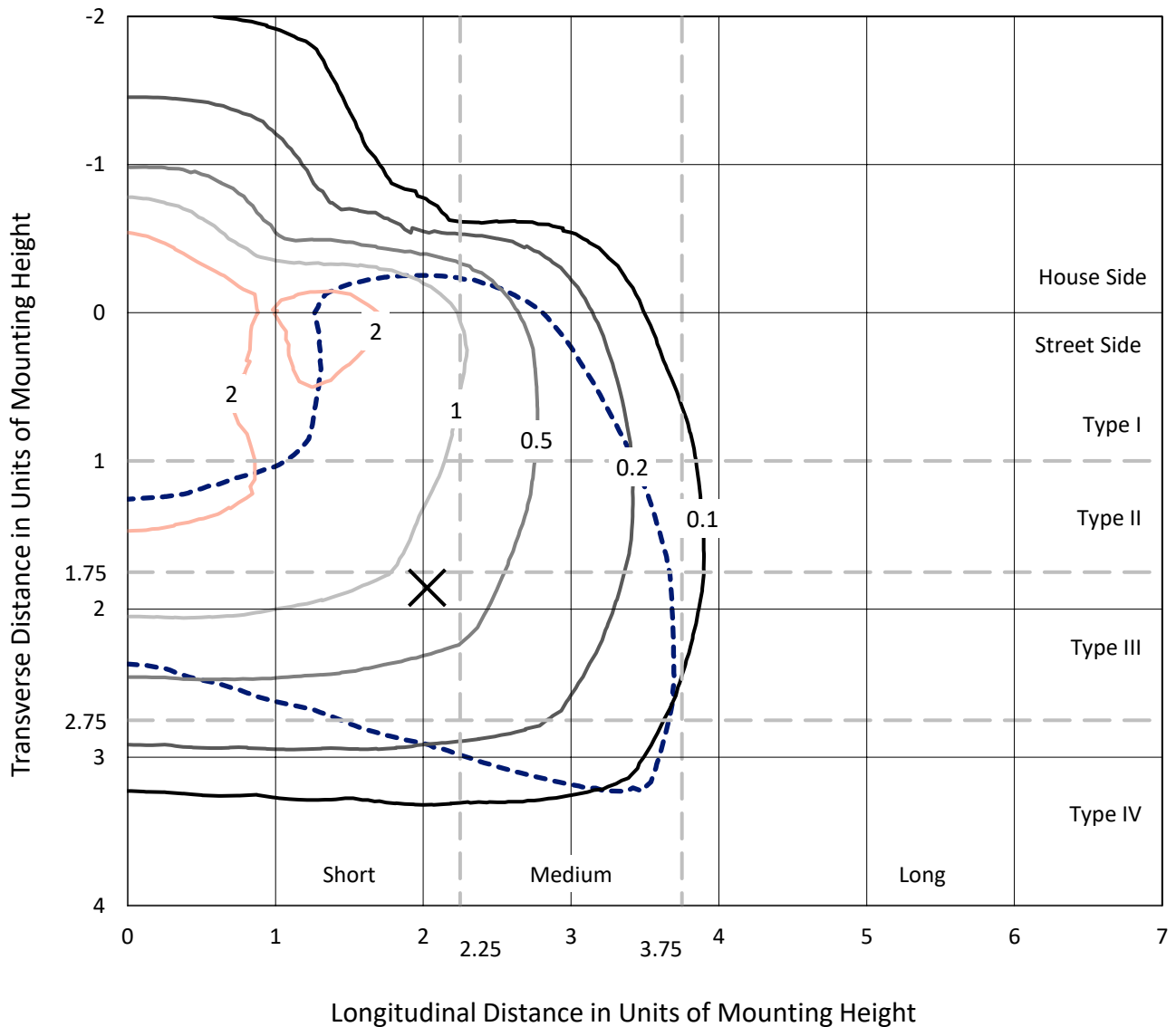
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

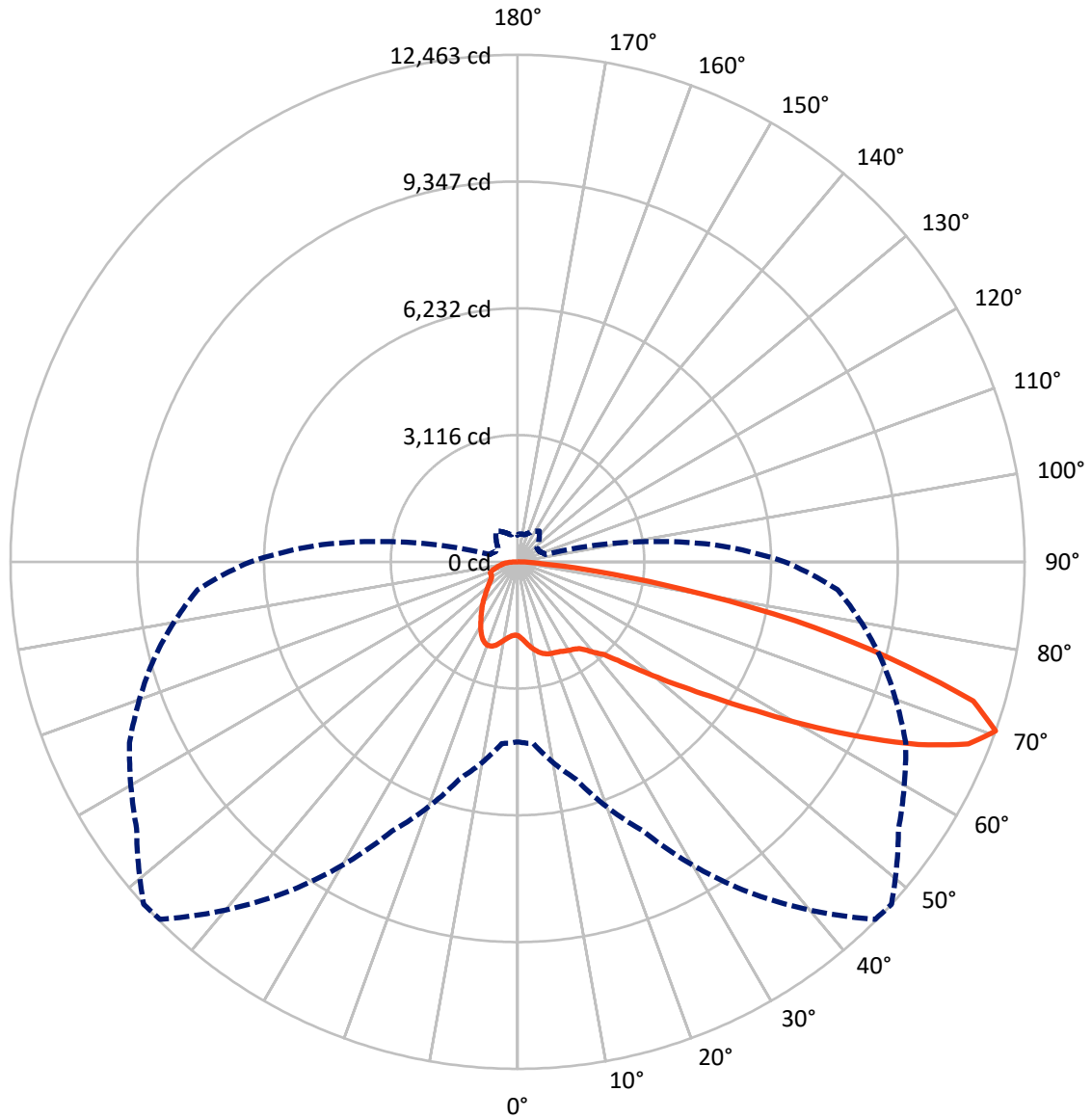
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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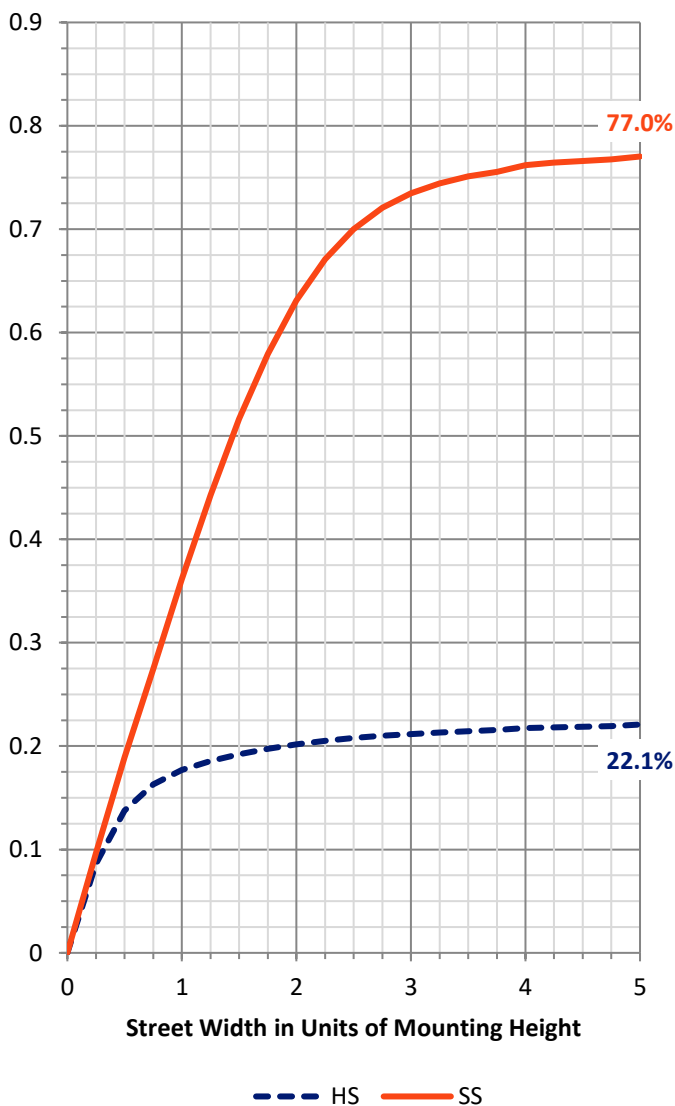
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4097.1	0.0	4097.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	13998.0	0.0	13998.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	18095.1	0.0	18095.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	1.0
10°-20°	626.0	3.5
20°-30°	1041.0	5.8
30°-40°	1475.5	8.2
40°-50°	2178.1	12.0
50°-60°	3772.5	20.8
60°-70°	5328.8	29.4
70°-80°	3063.3	16.9
80°-90°	422.7	2.3
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°	18095.1	100.0
0°-180°	18095.1	100.0

Coefficient of Utilization



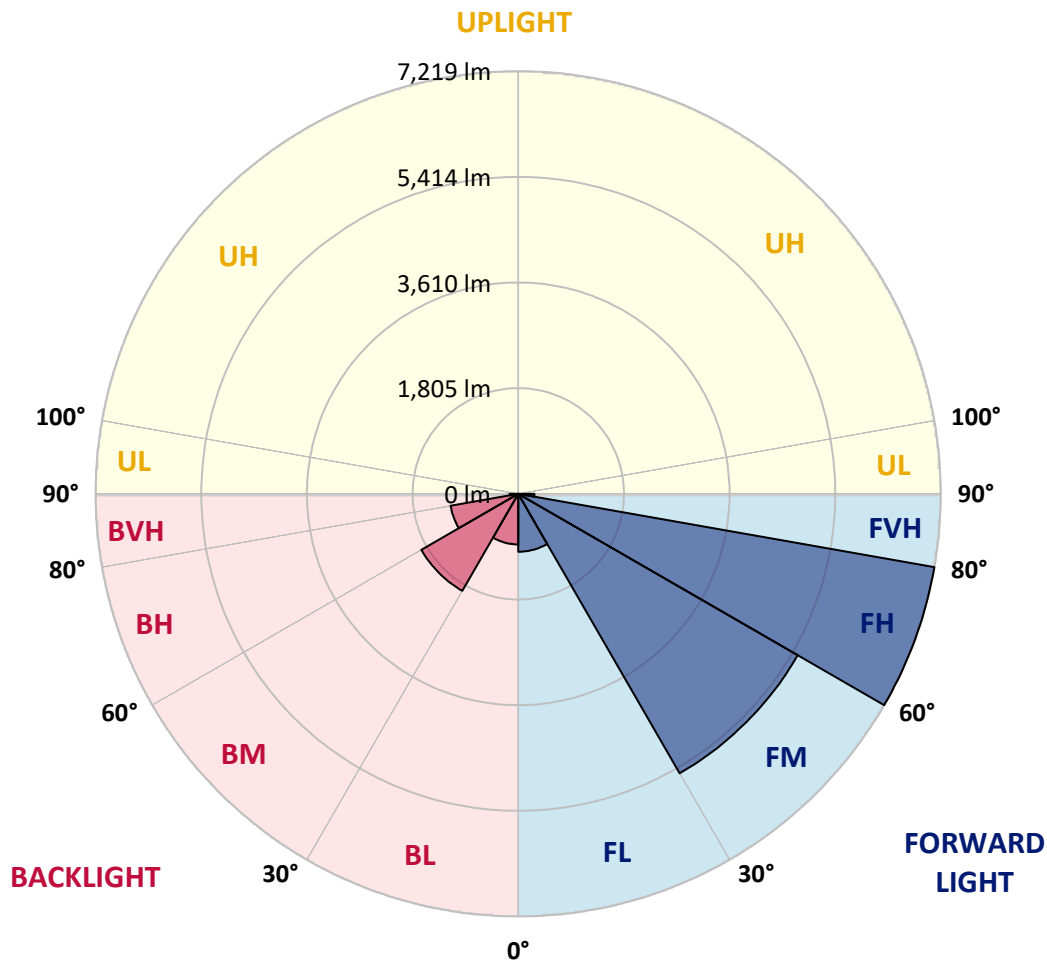
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.5	5.5			
FM (30°-60°)	5513.2	30.5			
FH (60°-80°)	7219.2	39.9			G3/7500
FVH (80°-90°)	276.1	1.5			G3/500
BL (0°-30°)	864.7	4.8	B2/1000		
BM (30°-60°)	1912.9	10.6	B2/2500		
BH (60°-80°)	1172.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	146.6	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6
2.5°	1933.7	1926.9	1925.9	1911.5	1903.7	1889.1	1883.3	1869.8	1853.4	1836.8	1821.3
5°	2085.8	2085.8	2078.9	2058.6	2026.6	1993.8	1979.2	1953.0	1906.6	1868.8	1836.8
7.5°	2241.7	2243.5	2230.0	2200.0	2154.5	2101.2	2087.6	2049.0	1983.1	1927.9	1880.5
10°	2376.2	2376.2	2357.8	2317.1	2260.1	2202.0	2188.3	2144.8	2071.2	2002.4	1940.5
12.5°	2478.8	2478.8	2454.6	2401.4	2339.4	2287.1	2271.6	2230.0	2161.2	2084.7	2006.4
15°	2545.7	2540.8	2513.7	2453.7	2393.6	2348.1	2337.5	2302.6	2239.7	2162.3	2074.1
17.5°	2548.6	2546.6	2520.5	2470.1	2417.8	2386.9	2380.1	2356.8	2307.5	2233.9	2140.9
20°	2492.4	2496.3	2478.8	2443.0	2417.8	2404.3	2401.4	2393.6	2358.8	2290.0	2197.1
22.5°	2432.4	2439.1	2422.7	2403.3	2401.4	2414.9	2416.9	2418.8	2396.5	2329.7	2244.5
25°	2417.8	2422.7	2406.2	2388.8	2399.4	2435.3	2443.0	2450.8	2433.3	2377.2	2300.7
27.5°	2491.4	2487.6	2455.6	2417.8	2424.6	2473.0	2483.7	2492.4	2483.7	2435.3	2370.4
30°	2699.6	2687.0	2623.1	2512.7	2477.9	2511.8	2522.4	2546.6	2546.6	2510.8	2445.9
32.5°	3048.2	3024.0	2906.8	2689.9	2568.9	2548.6	2559.2	2598.9	2619.3	2591.2	2520.5
35°	3471.4	3446.2	3278.7	2987.2	2735.5	2622.2	2619.3	2663.8	2718.0	2655.1	2563.1
37.5°	3896.4	3870.3	3668.9	3341.6	2978.5	2777.1	2759.7	2775.2	2798.4	2683.2	2622.2
40°	4321.5	4290.5	4114.3	3737.7	3275.8	2982.4	2936.9	2867.1	2857.5	2775.2	2736.4
42.5°	4742.7	4714.7	4625.6	4182.1	3632.1	3182.8	3113.1	2993.0	3029.8	2980.4	2946.5
45°	5167.8	5169.8	5074.9	4680.8	4062.0	3552.7	3458.7	3270.9	3358.1	3339.7	3359.1
47.5°	5544.5	5539.6	5505.7	5164.9	4595.6	4029.1	3908.0	3690.2	3839.3	3907.1	4055.2
50°	5909.5	5906.6	5908.6	5713.9	5215.2	4595.6	4461.9	4233.4	4569.4	4804.7	5070.0
52.5°	6432.4	6448.9	6331.7	6280.4	5968.6	5264.7	5117.5	4881.2	5432.1	5803.0	6321.1
55°	6957.3	6943.7	6851.7	6905.0	6756.8	6056.7	5902.8	5714.9	6392.7	6798.5	7576.9
57.5°	7266.2	7270.9	7364.9	7625.4	7729.9	7044.4	6905.0	6759.7	7472.4	7760.0	8694.4
60°	7544.0	7566.3	7836.5	8328.4	8612.1	8257.7	8133.7	7992.4	8463.0	8577.2	9664.6
62.5°	7631.2	7699.9	8171.5	8907.4	9472.0	9626.8	9472.9	9161.1	9406.1	9361.5	10322.1
65°	7196.4	7290.4	8135.7	9124.3	10239.8	10926.3	10828.5	10249.5	10209.8	9941.5	10429.6
67.5°	6051.9	6145.8	7231.2	8669.2	10557.4	12051.5	11953.7	11043.5	10697.8	9995.8	9616.2
70°	4428.0	4487.1	5525.2	7299.0	9919.3	12429.1	12463.0	11430.8	10523.5	9258.9	7895.5
72.5°	2551.5	2682.2	3409.4	5134.9	8103.7	11474.4	11709.7	10625.2	9421.6	7724.1	5520.3
75°	1097.1	1100.0	1576.4	2832.3	5488.4	9223.0	9450.7	8807.7	7398.8	5341.2	2947.5
77.5°	521.9	531.6	693.3	1264.6	3021.1	6372.4	6986.3	6222.3	4732.1	2566.0	1113.6
80°	338.9	345.7	424.2	627.5	1481.5	3695.1	4123.0	3589.5	2087.6	917.0	480.3
82.5°	205.3	207.2	283.7	383.4	815.3	1673.2	1972.5	1558.0	890.8	549.0	282.7
85°	124.9	125.9	172.3	237.2	494.8	578.1	593.6	588.7	522.9	359.2	151.0
87.5°	60.1	61.9	89.1	112.4	194.7	179.2	169.4	196.5	246.9	193.6	64.9
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°	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6
2.5°	1814.6	1811.7	1804.9	1802.0	1800.0	1801.1	1800.0	1800.0	1801.1	1801.1	1801.1
5°	1823.3	1818.4	1807.8	1807.8	1813.7	1827.2	1839.7	1849.4	1860.1	1859.2	1859.2
7.5°	1861.1	1852.3	1839.7	1843.7	1858.1	1879.4	1901.8	1923.0	1944.3	1946.3	1945.3
10°	1916.2	1907.5	1894.0	1898.9	1922.1	1954.1	1982.1	2013.1	2036.3	2043.1	2041.2
12.5°	1979.2	1961.8	1950.1	1963.7	2000.5	2043.1	2070.3	2093.4	2110.0	2119.6	2115.7
15°	2043.1	2026.6	2013.1	2041.2	2085.8	2125.5	2139.0	2142.8	2145.7	2155.4	2153.5
17.5°	2105.1	2082.8	2078.0	2114.8	2157.4	2174.8	2167.0	2150.6	2138.0	2145.7	2144.8
20°	2160.3	2142.8	2140.9	2177.7	2194.2	2177.7	2144.8	2115.7	2093.4	2095.4	2094.4
22.5°	2212.6	2199.0	2200.9	2216.4	2190.3	2134.1	2079.9	2040.2	2016.0	2020.8	2023.7
25°	2270.7	2257.1	2261.9	2236.8	2150.6	2052.8	1974.3	1940.5	1930.8	1940.5	1947.2
27.5°	2346.2	2337.5	2334.6	2237.7	2079.9	1932.8	1843.7	1831.0	1839.7	1861.1	1871.8
30°	2427.5	2427.5	2412.0	2221.3	1983.1	1788.5	1711.0	1712.9	1743.0	1772.9	1783.6
32.5°	2506.0	2522.4	2474.0	2176.7	1858.1	1648.1	1589.0	1590.9	1617.1	1653.9	1663.6
35°	2570.8	2618.3	2527.3	2095.4	1711.0	1529.9	1485.4	1459.2	1460.2	1488.2	1496.0
37.5°	2659.9	2748.0	2558.2	1974.3	1554.1	1429.2	1378.9	1333.4	1303.3	1291.7	1291.7
40°	2814.9	2944.6	2566.0	1795.3	1406.0	1333.4	1261.7	1207.5	1149.4	1097.1	1087.4
42.5°	3077.3	3240.9	2550.5	1589.0	1272.4	1227.8	1158.1	1091.3	1010.9	937.3	931.5
45°	3542.1	3626.3	2508.9	1375.0	1153.3	1126.1	1058.4	985.7	900.5	834.7	829.8
47.5°	4286.7	4167.6	2453.7	1185.2	1044.8	1037.1	984.8	900.5	815.3	769.8	765.0
50°	5374.0	5019.7	2445.9	1047.7	957.7	961.5	918.9	841.5	766.9	729.1	723.3
52.5°	6683.2	6049.0	2497.2	950.9	881.2	895.7	874.4	802.7	736.9	704.9	699.1
55°	7953.6	6974.7	2528.2	875.3	809.5	836.6	839.5	779.5	719.4	687.5	683.6
57.5°	8984.8	7671.8	2390.7	806.6	747.5	789.2	810.5	765.9	710.7	686.5	682.6
60°	9702.4	8001.1	1999.5	745.6	702.0	751.4	799.8	766.9	732.0	734.9	736.9
62.5°	9930.9	7854.9	1499.9	700.1	671.0	738.8	817.2	806.6	770.8	793.0	796.9
65°	9552.3	7250.7	1087.4	664.2	643.9	747.5	869.5	835.6	757.2	773.7	773.7
67.5°	8284.8	6246.5	846.3	631.3	612.9	764.0	921.8	832.7	725.3	744.6	727.2
70°	6571.9	4831.8	704.9	594.5	580.0	739.8	926.7	802.7	687.5	691.4	658.4
72.5°	4361.2	3177.0	606.1	559.7	529.7	665.2	887.0	764.0	650.7	628.4	595.5
75°	2137.0	1584.2	528.7	516.1	463.8	579.0	832.7	727.2	611.0	576.1	557.7
77.5°	827.9	673.9	451.2	460.9	403.8	510.3	761.1	674.9	558.7	511.3	496.7
80°	401.8	382.5	369.9	384.5	332.1	434.8	695.2	629.4	510.3	458.0	436.7
82.5°	249.9	236.2	283.7	299.2	255.6	397.0	659.4	590.7	449.3	379.6	362.1
85°	126.8	135.5	189.8	204.3	183.0	315.6	543.2	443.5	324.4	269.2	271.2
87.5°	48.4	64.9	99.8	107.5	97.8	166.5	299.2	258.5	208.2	141.4	130.7
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)