

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: P453398

Luminaire Tested: **GALN-SA4B-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17989 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

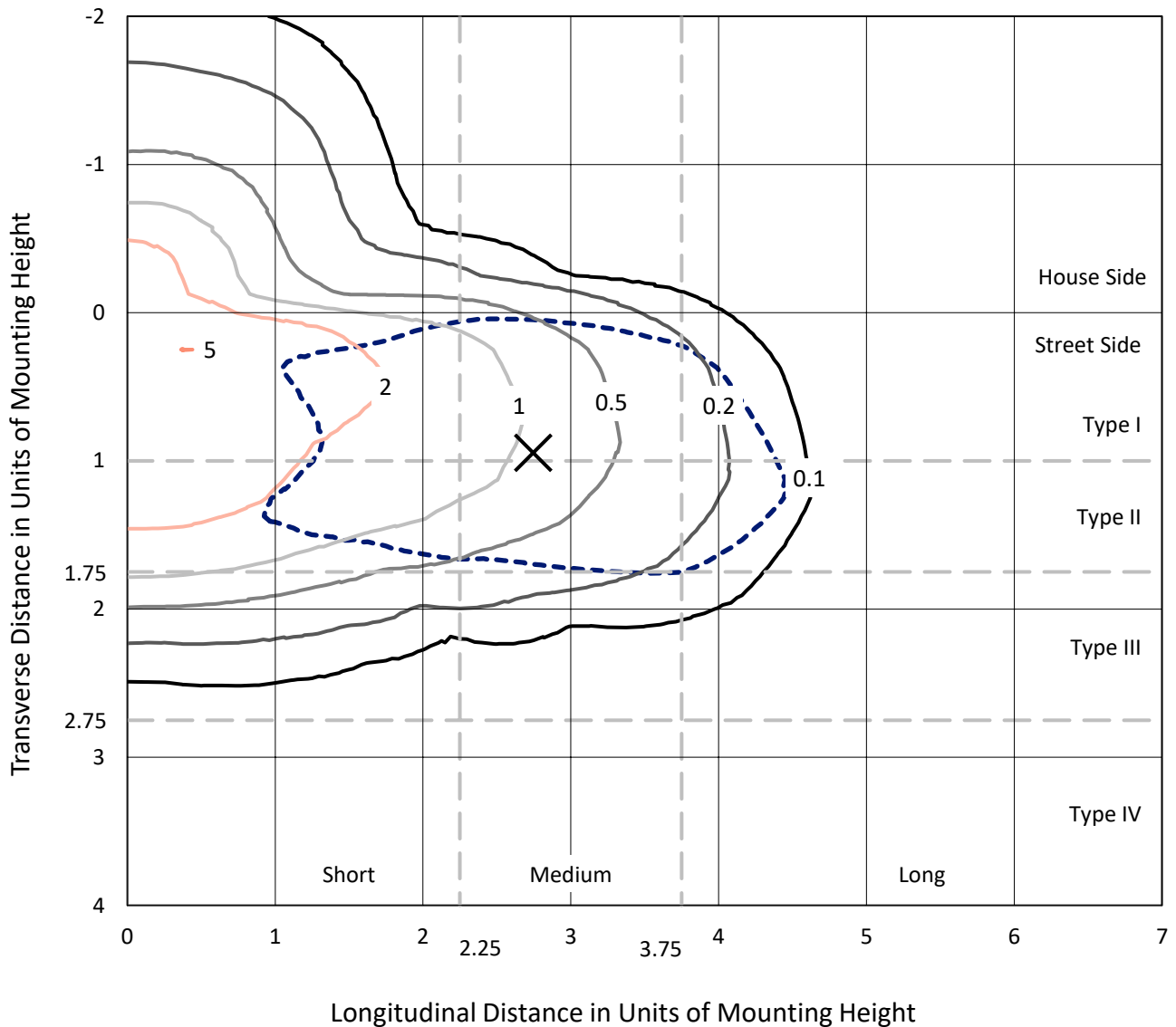
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

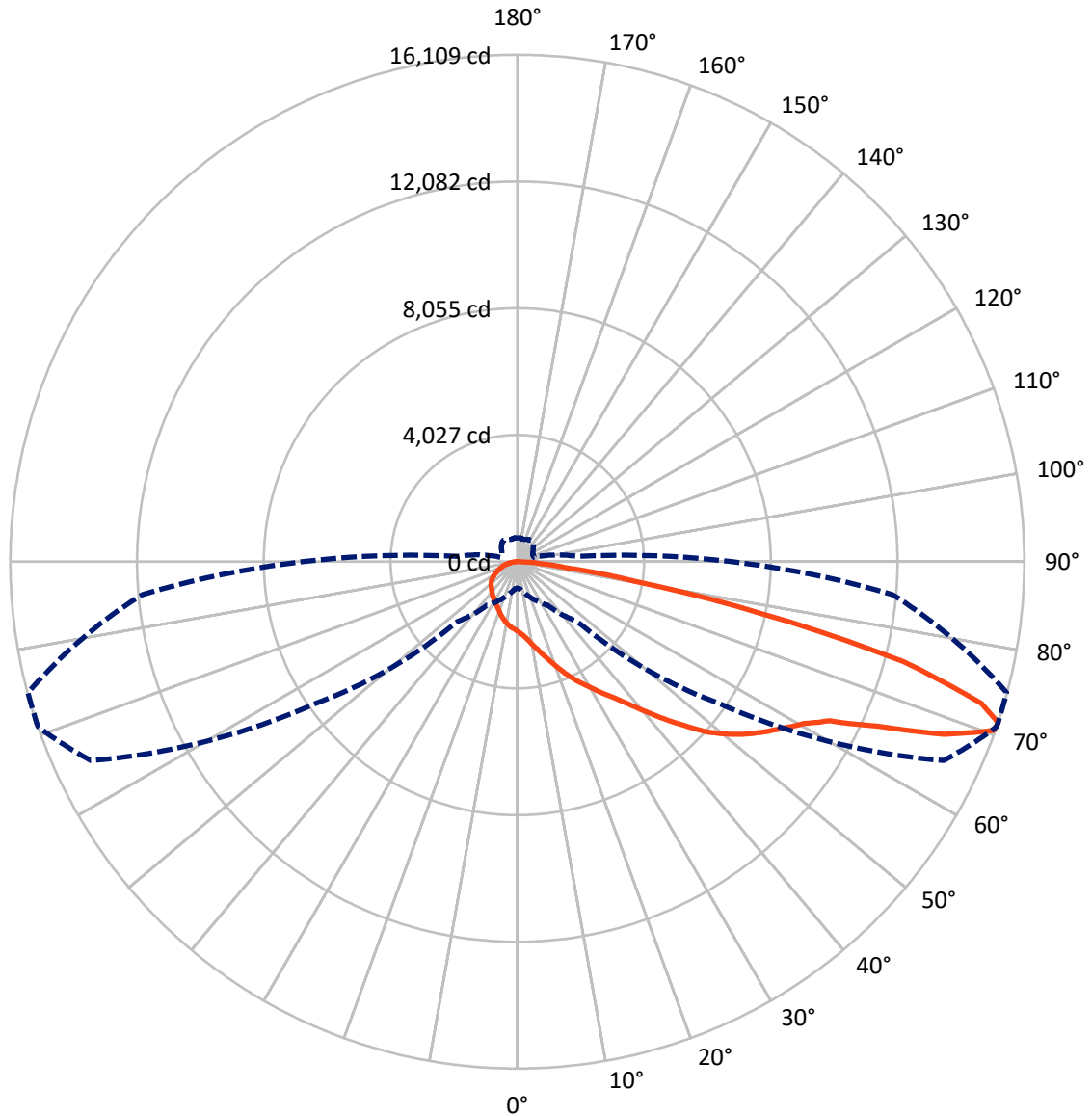
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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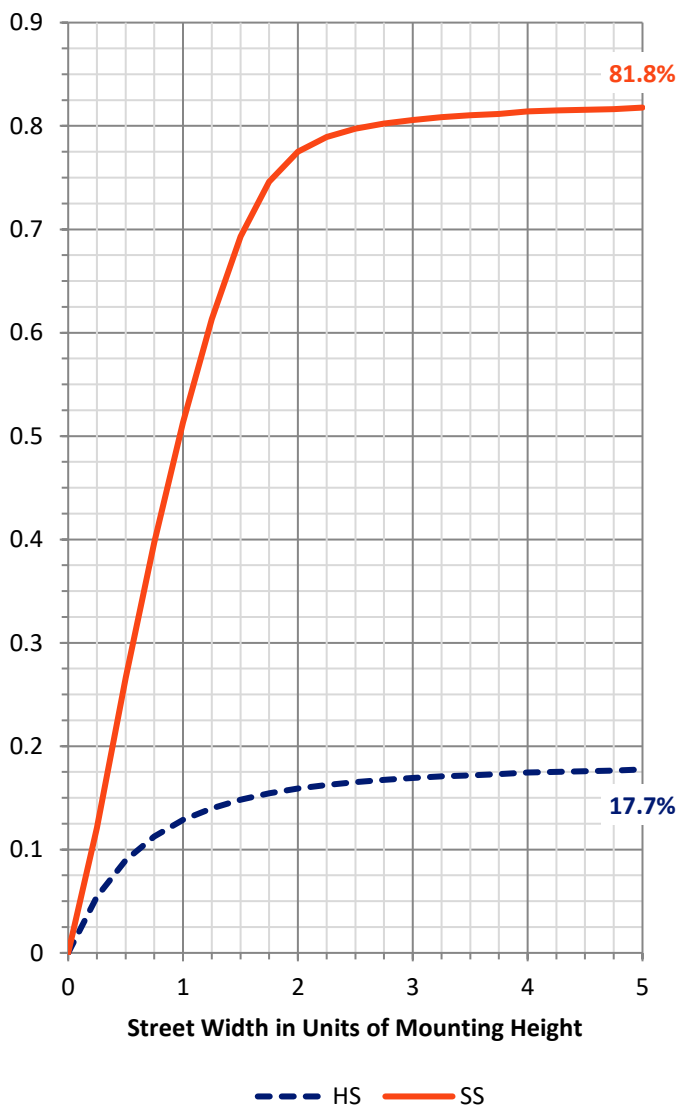
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3235.3	0.0	3235.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	14753.7	0.0	14753.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	17989.0	0.0	17989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	1.2
10°-20°	720.2	4.0
20°-30°	1258.6	7.0
30°-40°	1872.1	10.4
40°-50°	2758.2	15.3
50°-60°	3861.6	21.5
60°-70°	4319.0	24.0
70°-80°	2638.2	14.7
80°-90°	339.4	1.9
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°	17989.0	100.0
0°-180°	17989.0	100.0

Coefficient of Utilization



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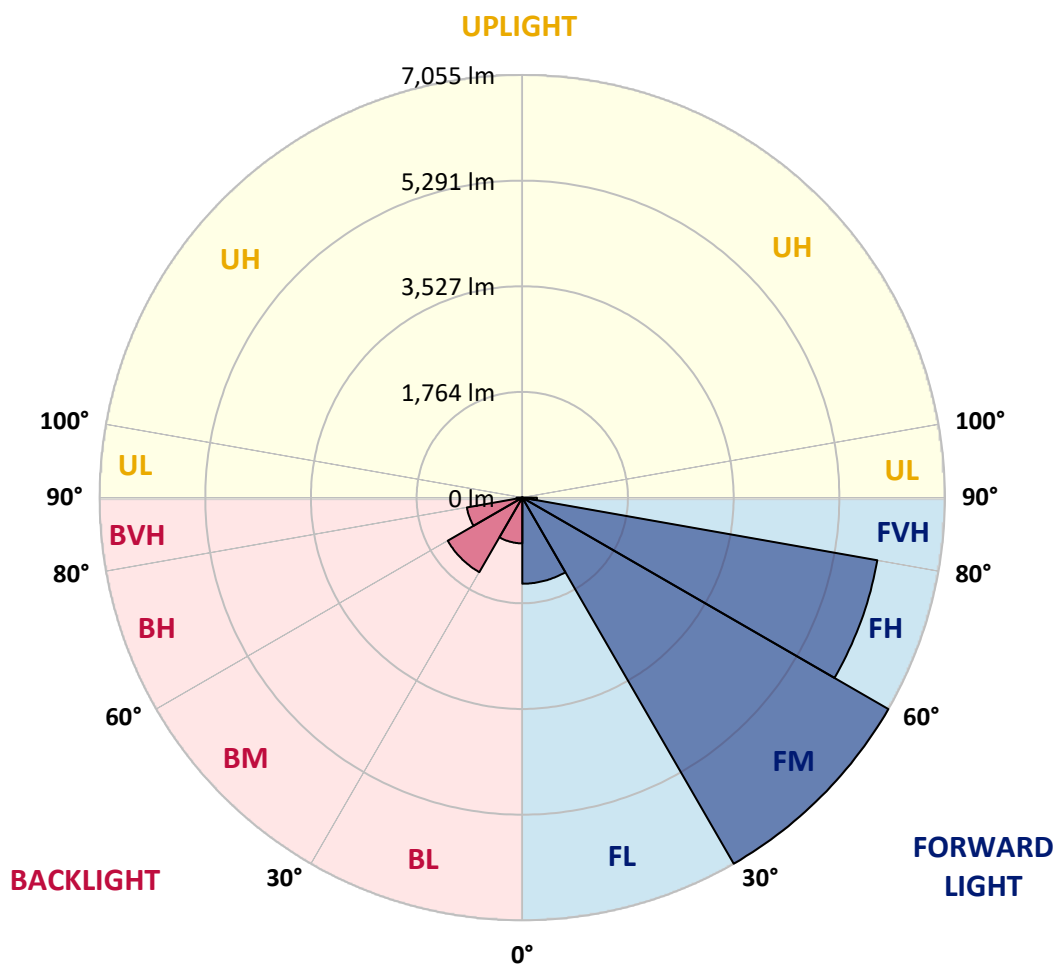
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1437.3	8.0			
FM (30°-60°)	7054.9	39.2			
FH (60°-80°)	6017.3	33.4			G3/7500
FVH (80°-90°)	244.2	1.4			G3/500
BL (0°-30°)	763.2	4.2	B2/1000		
BM (30°-60°)	1436.9	8.0	B2/2500		
BH (60°-80°)	940.0	5.2	B2/1000		G2/1000
BVH (80°-90°)	95.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8
2.5°	2451.0	2439.2	2440.1	2423.3	2401.6	2377.9	2344.2	2314.6	2290.8	2277.0	2236.5
5°	2716.0	2704.1	2689.3	2652.7	2636.9	2578.6	2504.4	2437.2	2385.8	2357.1	2276.0
7.5°	2930.5	2927.6	2923.6	2902.9	2862.3	2781.2	2718.0	2601.3	2525.2	2470.8	2332.4
10°	3063.0	3068.0	3070.9	3074.9	3058.1	3015.6	2928.6	2781.2	2684.4	2615.1	2405.5
12.5°	3130.3	3135.2	3152.0	3188.6	3211.3	3206.4	3135.2	2990.9	2857.4	2766.4	2483.6
15°	3171.8	3179.7	3209.4	3257.8	3333.9	3382.4	3347.8	3214.3	3068.0	2960.2	2576.6
17.5°	3217.3	3226.2	3258.8	3328.0	3427.9	3532.7	3570.2	3455.6	3296.4	3167.8	2680.4
20°	3243.0	3254.8	3301.3	3392.3	3508.9	3661.2	3785.8	3725.5	3551.5	3409.1	2800.0
22.5°	3284.5	3294.4	3333.9	3430.8	3570.2	3761.1	4001.3	3988.5	3835.2	3651.3	2931.5
25°	3397.2	3413.0	3432.8	3491.1	3625.6	3862.9	4180.3	4269.3	4110.1	3904.4	3052.2
27.5°	3609.8	3622.6	3621.7	3629.6	3705.7	3950.9	4335.5	4547.1	4383.0	4160.5	3168.8
30°	3852.0	3857.0	3860.9	3843.1	3859.9	4040.9	4477.9	4822.0	4657.8	4423.5	3270.7
32.5°	4146.7	4156.5	4122.9	4077.5	4063.6	4174.3	4595.5	5096.8	4983.1	4690.5	3371.5
35°	4494.7	4520.4	4452.2	4372.1	4315.7	4366.2	4753.7	5377.6	5316.3	5031.6	3505.0
37.5°	4892.1	4923.8	4860.5	4703.3	4623.2	4637.1	4960.4	5724.6	5737.5	5420.1	3703.7
40°	5217.4	5259.0	5260.9	5038.5	4916.9	4932.7	5222.4	6098.4	6245.7	5900.6	3938.0
42.5°	5432.0	5472.5	5515.0	5384.5	5257.0	5347.0	5527.9	6503.8	6817.2	6484.0	4265.3
45°	5667.3	5703.9	5727.6	5668.3	5597.1	5830.4	5896.7	6934.8	7426.2	7135.5	4623.2
47.5°	5940.2	5980.7	6003.5	5947.1	5920.4	6254.6	6294.1	7337.2	8076.8	7768.3	5018.7
50°	6304.0	6334.7	6322.8	6287.2	6281.3	6579.9	6675.8	7713.9	8613.7	8449.5	5429.0
52.5°	6756.9	6793.4	6806.3	6755.9	6733.1	6812.2	6983.3	8057.0	9102.1	9034.9	5867.0
55°	7030.7	7089.1	7284.8	7363.9	7418.3	7112.8	7314.5	8435.7	9540.1	9651.8	6337.6
57.5°	6679.7	6754.9	7192.9	7588.4	8099.5	7864.2	7784.1	8831.2	9978.1	10250.0	6901.2
60°	5823.5	5840.3	6404.9	7133.6	8161.8	8830.2	8763.9	9460.0	10452.7	10853.1	7643.7
62.5°	4039.9	4075.5	4742.9	5905.6	7392.6	9178.2	10430.9	10545.6	11132.9	11755.8	8732.3
65°	2083.2	2036.7	2644.8	3711.6	5573.4	8351.7	11781.5	12541.8	12608.1	13167.7	10264.8
67.5°	1282.4	1303.1	1587.9	2167.3	3295.4	6069.7	11640.1	14981.0	14632.0	14900.9	11687.6
70°	963.0	988.7	1184.5	1483.1	2009.1	3470.4	9361.1	15572.2	16059.7	15990.4	12120.6
71°	837.4	864.1	1067.8	1349.6	1687.7	2678.4	7887.0	14953.3	16109.1	16097.2	11957.5
72.5°	713.9	730.7	889.8	1143.0	1422.8	1877.6	5925.4	13410.9	15421.9	15816.4	11375.1
75°	560.6	573.5	644.6	872.0	1120.2	1152.8	3179.7	10054.2	12666.4	13417.8	9469.9
77.5°	456.8	465.7	502.3	647.6	864.1	816.7	1668.0	6544.3	7935.4	8691.8	5578.3
80°	362.9	372.7	394.5	439.0	647.6	582.4	795.9	3316.1	3833.2	3825.3	2226.6
82.5°	281.8	284.7	310.5	322.3	442.9	413.3	431.1	1404.0	1555.2	1606.7	803.8
85°	178.0	186.9	274.9	247.2	265.0	242.2	212.6	557.6	687.2	677.3	321.3
87.5°	54.4	57.3	92.9	104.8	117.7	105.8	78.1	164.1	200.7	217.5	80.1
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°	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8	2207.8
2.5°	2220.6	2209.8	2171.2	2139.6	2109.9	2077.3	2049.6	2041.7	2034.8	2031.8	2030.8
5°	2241.4	2208.8	2132.7	2070.4	2020.9	1975.4	1946.8	1933.9	1921.1	1921.1	1925.0
7.5°	2271.1	2211.7	2094.1	2001.2	1938.9	1896.4	1875.6	1873.6	1876.6	1879.5	1880.5
10°	2303.7	2209.8	2037.7	1922.1	1866.7	1846.9	1847.9	1864.7	1880.5	1892.4	1894.4
12.5°	2335.3	2197.9	1971.5	1847.9	1812.3	1816.3	1843.9	1881.5	1912.2	1929.0	1930.0
15°	2370.9	2179.1	1891.4	1777.7	1765.8	1796.5	1847.9	1905.2	1951.7	1979.4	1982.4
17.5°	2400.6	2147.5	1807.4	1709.5	1724.3	1780.7	1851.9	1926.0	1982.4	2017.0	2022.9
20°	2434.2	2106.9	1720.4	1644.2	1686.7	1762.9	1843.9	1924.0	1982.4	2016.0	2023.9
22.5°	2460.9	2049.6	1637.3	1590.8	1653.1	1741.1	1817.3	1881.5	1929.0	1946.8	1958.6
25°	2471.8	1977.4	1559.2	1547.3	1626.4	1705.5	1756.9	1793.5	1808.4	1806.4	1811.3
27.5°	2465.8	1894.4	1492.0	1512.7	1592.8	1650.2	1675.9	1672.9	1646.2	1621.5	1633.4
30°	2441.1	1795.5	1435.6	1477.1	1549.3	1581.0	1577.0	1538.4	1488.0	1441.5	1444.5
32.5°	2396.6	1688.7	1383.2	1436.6	1488.0	1501.9	1475.2	1424.7	1352.6	1292.2	1283.3
35°	2359.1	1586.9	1336.7	1390.1	1426.7	1419.8	1394.1	1328.8	1263.6	1210.2	1201.3
37.5°	2353.1	1499.9	1292.2	1337.7	1358.5	1348.6	1317.0	1261.6	1237.9	1197.3	1192.4
40°	2384.8	1438.6	1246.8	1282.4	1292.2	1284.3	1249.7	1218.1	1239.8	1230.0	1230.0
42.5°	2470.8	1405.9	1206.2	1227.0	1234.9	1240.8	1216.1	1189.4	1216.1	1170.6	1155.8
45°	2607.2	1406.9	1169.6	1172.6	1196.3	1217.1	1200.3	1160.7	1146.9	1055.9	1038.1
47.5°	2807.9	1440.6	1140.0	1121.2	1163.7	1198.3	1174.6	1117.2	1055.9	995.6	984.8
50°	3042.3	1500.9	1113.3	1067.8	1120.2	1174.6	1156.8	1089.6	1026.3	989.7	982.8
52.5°	3302.3	1577.0	1080.7	1008.5	1066.8	1163.7	1160.7	1085.6	998.6	973.9	967.9
55°	3623.6	1652.1	1040.1	939.3	1019.4	1154.8	1149.9	1053.0	992.7	974.9	972.9
57.5°	3997.4	1760.9	981.8	869.1	965.0	1118.2	1107.4	1033.2	972.9	960.0	959.1
60°	4599.5	1930.0	898.7	804.8	909.6	1054.0	1067.8	999.6	941.3	938.3	937.3
62.5°	5391.4	2167.3	812.7	738.6	845.3	970.9	1010.5	954.1	907.6	922.5	924.4
65°	6485.0	2367.0	723.7	682.2	774.2	890.8	956.1	911.6	870.1	898.7	898.7
67.5°	7197.8	2370.9	642.7	623.9	702.0	823.6	898.7	861.2	821.6	870.1	872.0
70°	7049.5	2077.3	575.4	562.6	631.8	751.4	835.5	805.8	760.3	803.8	788.0
71°	6810.3	1914.1	548.7	538.8	604.1	716.8	805.8	781.1	735.6	764.3	755.4
72.5°	6428.6	1662.0	505.2	507.2	562.6	673.3	764.3	738.6	693.1	708.9	705.9
75°	5434.0	1451.4	432.1	441.0	483.5	599.2	681.2	661.4	615.0	615.0	612.0
77.5°	3397.2	1014.4	358.9	363.8	410.3	513.1	585.3	568.5	524.0	509.2	505.2
80°	1267.5	524.0	280.8	286.7	315.4	404.4	484.5	468.6	423.2	406.4	390.5
82.5°	479.5	263.0	206.6	201.7	232.3	308.5	379.7	360.9	325.3	284.7	272.9
85°	180.9	130.5	126.6	122.6	136.4	182.9	235.3	231.4	193.8	165.1	162.1
87.5°	47.5	42.5	49.4	36.6	38.6	34.6	35.6	14.8	6.9	3.0	2.0
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)