

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: P651249

Luminaire Tested: **GALN-SA2D-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10973.4 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

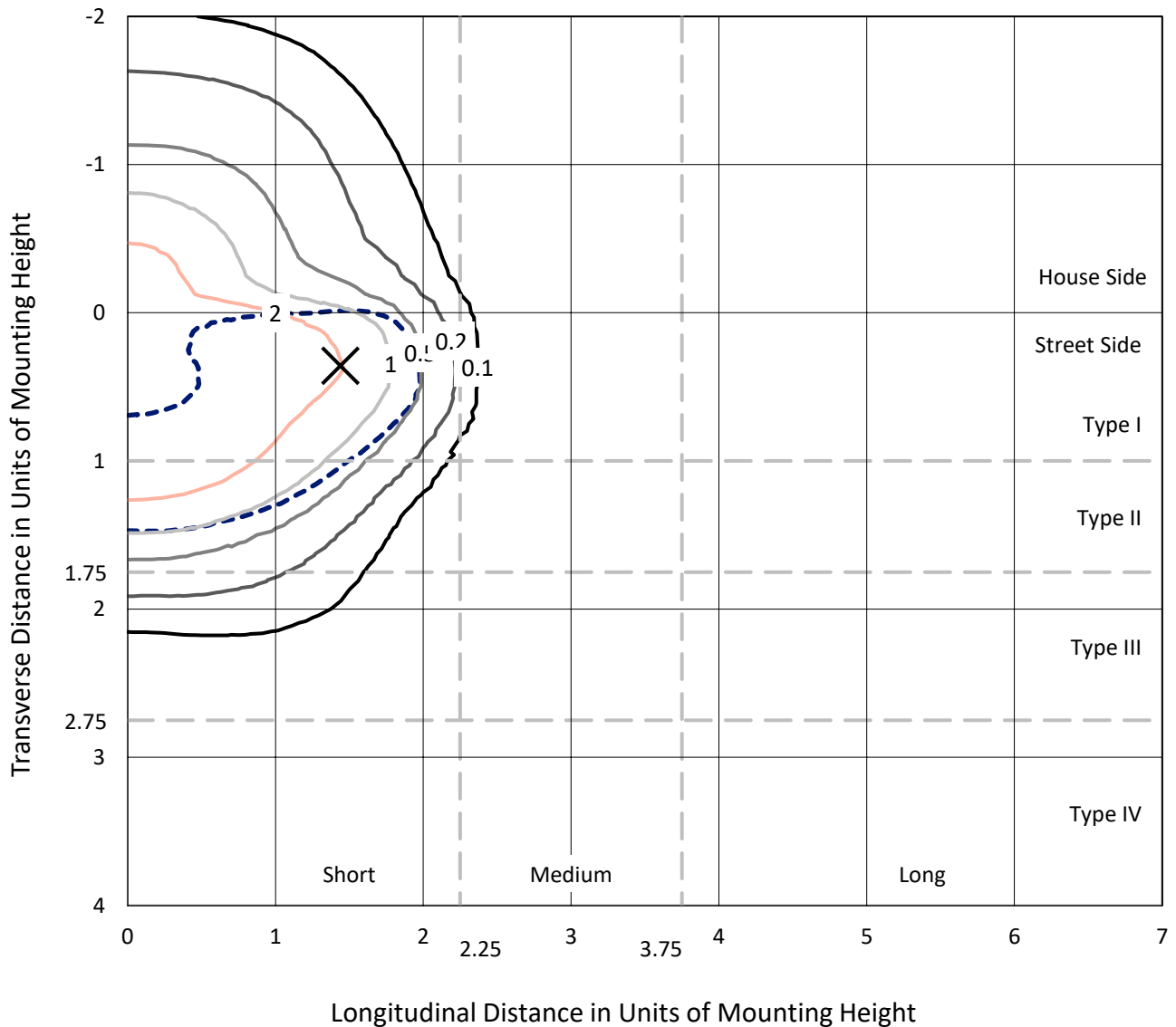
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

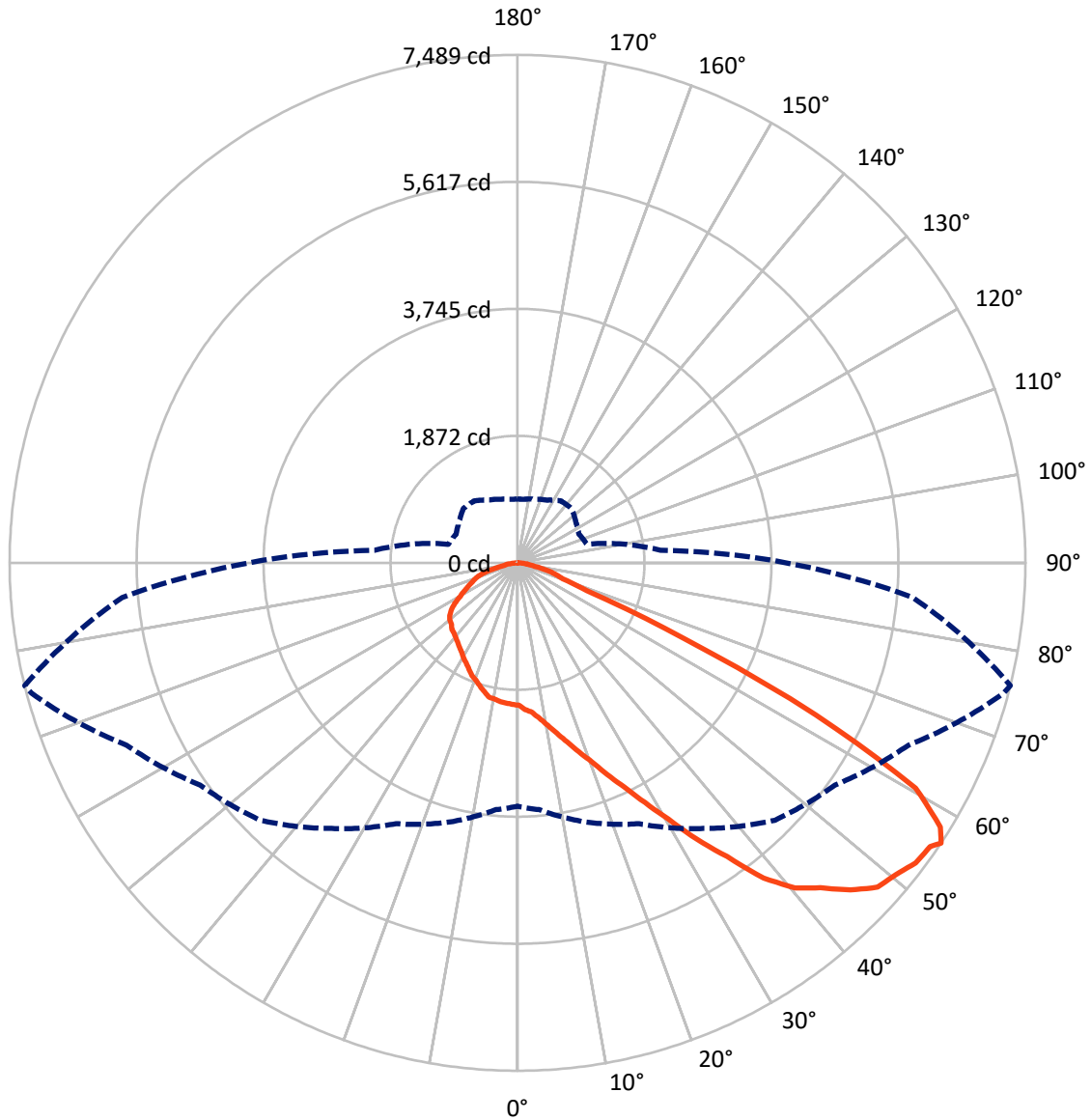
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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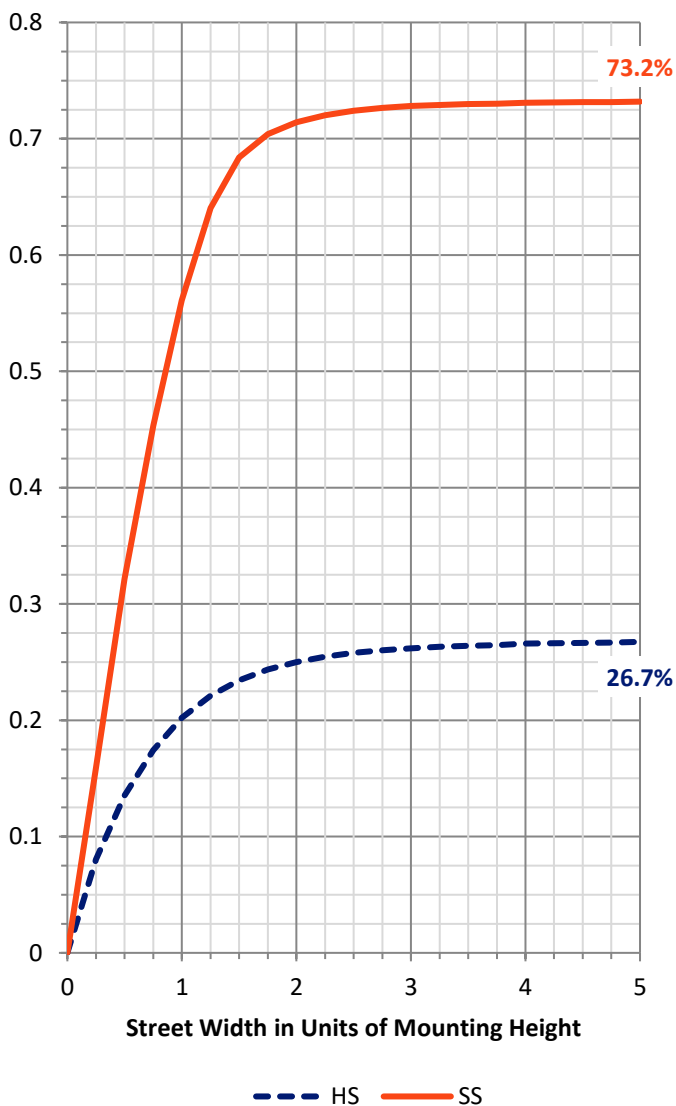
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2950.4	0.0	2950.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8023.0	0.0	8023.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	10973.4	0.0	10973.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	1.9
10°-20°	654.1	6.0
20°-30°	1143.9	10.4
30°-40°	1791.0	16.3
40°-50°	2605.4	23.7
50°-60°	2863.5	26.1
60°-70°	1278.2	11.6
70°-80°	369.2	3.4
80°-90°	59.9	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°	10973.4	100.0
0°-180°	10973.4	100.0

Coefficient of Utilization

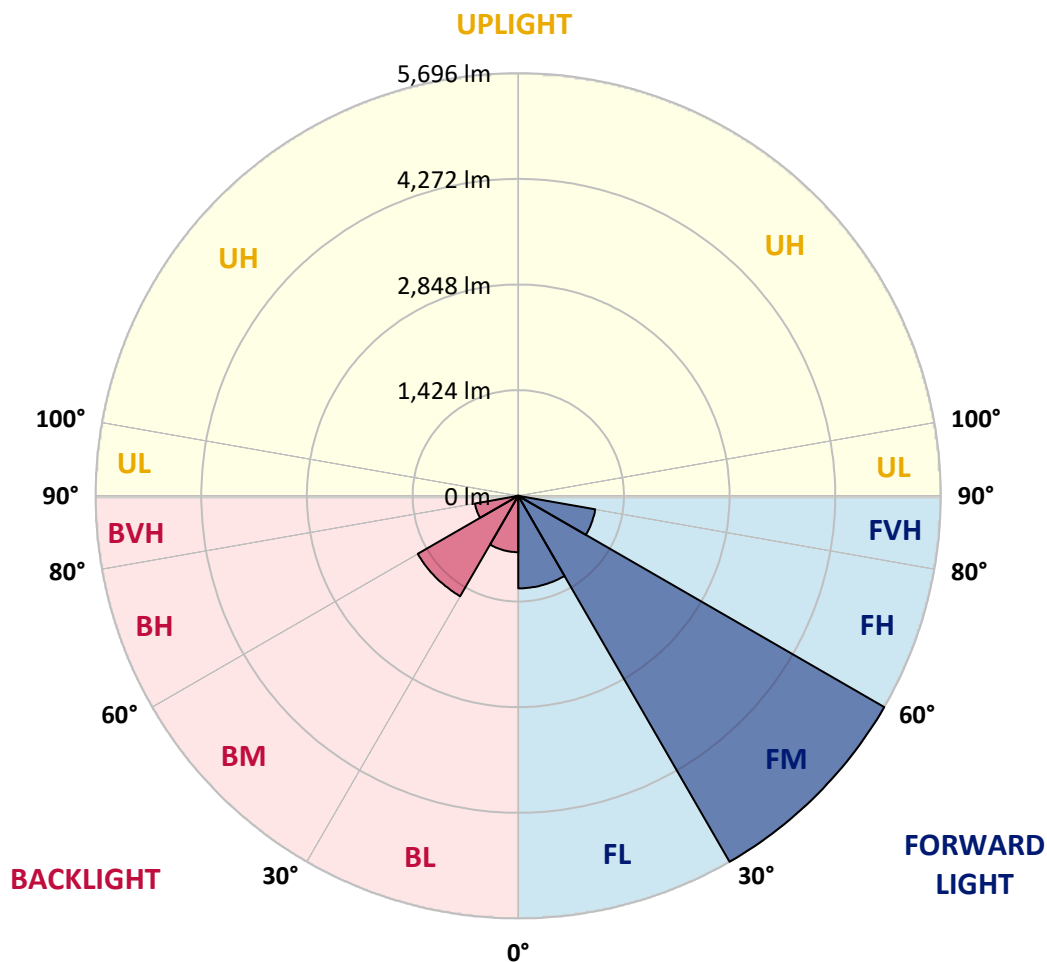


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.0	11.4			
FM (30°-60°)	5696.5	51.9			
FH (60°-80°)	1053.7	9.6			G1/1800
FVH (80°-90°)	25.8	0.2			G1/100
BL (0°-30°)	759.2	6.9	B2/1000		
BM (30°-60°)	1563.5	14.2	B2/2500		
BH (60°-80°)	593.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	34.1	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6
2.5°	2313.0	2276.0	2273.1	2263.2	2268.8	2243.3	2216.3	2180.7	2143.7	2166.5	2112.4
5°	2475.1	2425.4	2445.3	2411.1	2415.4	2381.3	2325.8	2284.6	2239.0	2212.0	2173.6
7.5°	2532.1	2536.3	2550.6	2544.9	2516.4	2516.4	2479.4	2406.9	2327.2	2311.6	2247.6
10°	2608.9	2610.3	2594.7	2598.9	2638.7	2620.2	2587.5	2556.2	2453.8	2435.3	2321.5
12.5°	2635.9	2610.3	2635.9	2658.7	2705.6	2731.2	2724.1	2701.3	2591.8	2579.0	2412.6
15°	2640.2	2624.5	2645.9	2697.1	2738.3	2846.4	2900.4	2884.8	2739.7	2741.2	2515.0
17.5°	2620.2	2641.6	2650.2	2694.2	2789.5	2890.5	3047.0	3068.3	2948.9	2930.4	2644.4
20°	2647.3	2631.7	2643.0	2682.9	2809.4	2967.3	3172.2	3313.0	3145.2	3132.4	2778.2
22.5°	2751.1	2729.8	2726.9	2752.5	2843.6	3007.2	3304.5	3557.7	3384.1	3391.2	2944.6
25°	2832.2	2843.6	2833.7	2832.2	2889.1	3066.9	3479.5	3849.3	3708.5	3667.2	3140.9
27.5°	2971.6	2998.7	2978.7	3005.7	2993.0	3156.5	3604.6	4172.2	4058.4	4002.9	3318.7
30°	3165.1	3179.3	3160.8	3160.8	3122.4	3281.8	3718.4	4509.4	4462.4	4387.0	3527.8
32.5°	3419.7	3441.0	3404.0	3382.7	3377.0	3468.0	3923.3	4842.2	4921.9	4857.9	3805.2
35°	3756.8	3744.0	3699.9	3680.0	3603.2	3754.0	4227.7	5224.9	5434.0	5320.2	4140.9
37.5°	4054.1	4034.2	4031.3	3920.4	3938.9	4062.7	4486.6	5515.0	5930.4	5897.7	4495.1
40°	4331.5	4350.0	4379.8	4317.3	4288.8	4425.4	4788.1	5737.0	6315.9	6303.1	4768.2
42.5°	4628.8	4611.8	4664.4	4611.8	4569.1	4762.5	5115.3	5890.6	6654.5	6549.2	5054.2
45°	5059.9	5005.8	5024.3	5028.5	4997.2	5068.4	5250.4	6001.5	6892.0	6880.6	5263.2
47.5°	5419.7	5421.2	5389.9	5365.7	5270.4	5341.5	5401.2	6071.3	7165.2	7146.6	5344.3
50°	5553.5	5535.0	5626.0	5678.6	5684.3	5539.2	5519.3	6109.6	7308.8	7227.7	5425.5
52.5°	5072.7	5089.7	5233.4	5546.3	5727.0	5742.6	5657.3	6189.3	7367.2	7350.1	5490.9
55°	4082.6	4165.1	4401.2	4762.5	5190.7	5661.5	5806.7	6271.8	7398.4	7384.2	5781.0
56°	3589.0	3653.0	3960.3	4243.3	4781.0	5367.1	5712.7	6360.0	7422.6	7489.4	5849.3
57.5°	2889.1	2963.1	3183.5	3505.0	4139.5	4806.7	5453.9	6251.9	7328.7	7354.4	5899.1
60°	1806.6	1813.7	2078.3	2290.2	2736.9	3388.4	4162.3	5439.7	6782.5	6745.5	5298.8
62.5°	1185.0	1186.4	1426.8	1600.3	1803.7	1953.1	2449.6	3607.5	5004.4	4938.9	3772.5
65°	832.2	850.7	1037.0	1268.9	1351.4	1273.1	1257.5	1901.9	2795.2	2701.3	2027.1
67.5°	608.8	610.2	775.2	1024.2	1143.7	968.7	786.7	928.9	1106.7	1103.9	938.9
70°	402.6	419.7	546.2	765.3	901.9	778.1	642.9	664.3	704.2	704.2	698.5
72.5°	234.7	250.4	334.3	485.1	506.5	486.5	509.2	569.0	594.6	593.2	586.1
75°	133.7	140.9	159.3	202.0	251.8	297.3	374.1	431.0	456.7	472.3	453.8
77.5°	78.2	82.5	93.9	115.2	130.9	160.7	203.4	243.2	277.4	273.2	275.9
80°	41.3	41.3	52.6	68.3	91.1	113.8	135.1	157.9	176.4	180.6	184.9
82.5°	24.2	25.6	34.1	49.8	65.4	81.1	103.9	119.5	136.6	138.0	140.9
85°	12.8	14.2	21.4	32.7	44.1	49.8	51.2	48.4	52.6	49.8	56.9
87.5°	4.3	4.3	7.1	5.7	5.7	7.1	8.5	8.5	11.4	11.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6
2.5°	2111.0	2111.0	2086.8	2041.3	2034.2	2015.7	1998.6	1997.2	1984.4	1973.0	1967.4
5°	2150.9	2106.7	2071.1	2029.9	1981.6	1958.8	1933.2	1904.7	1893.3	1904.7	1903.3
7.5°	2196.4	2159.4	2052.6	1975.8	1920.3	1897.6	1869.2	1839.3	1842.1	1842.1	1822.2
10°	2240.4	2190.6	2019.9	1921.8	1840.7	1823.6	1808.0	1819.4	1833.6	1836.5	1823.6
12.5°	2314.4	2202.1	2004.3	1867.8	1816.6	1779.6	1789.5	1820.8	1850.7	1842.1	1852.1
15°	2369.9	2212.0	1933.2	1812.3	1748.3	1765.3	1800.9	1822.2	1872.0	1866.3	1876.3
17.5°	2423.9	2217.7	1863.5	1738.3	1711.3	1758.2	1785.3	1846.4	1862.1	1896.2	1909.0
20°	2534.9	2229.1	1792.3	1692.8	1684.3	1738.3	1785.3	1813.7	1847.8	1877.7	1877.7
22.5°	2591.8	2223.4	1745.4	1633.1	1660.0	1694.2	1736.8	1785.3	1785.3	1813.7	1815.1
25°	2662.9	2200.6	1671.4	1604.5	1624.5	1657.2	1705.5	1688.5	1707.0	1707.0	1729.8
27.5°	2744.0	2152.3	1607.4	1553.4	1593.2	1628.8	1635.9	1624.5	1603.2	1600.3	1591.8
30°	2809.4	2092.5	1560.5	1536.3	1569.1	1588.9	1566.2	1542.0	1505.0	1502.2	1482.3
32.5°	2899.1	2018.6	1502.2	1493.6	1530.6	1532.0	1524.9	1487.9	1433.9	1411.1	1388.3
35°	3049.9	1975.8	1458.0	1470.9	1482.3	1478.0	1465.2	1425.3	1371.3	1361.3	1352.8
37.5°	3160.8	1944.6	1412.5	1428.2	1438.1	1443.8	1405.4	1361.3	1362.8	1342.8	1337.2
40°	3286.0	1924.6	1375.5	1382.7	1384.1	1402.6	1355.6	1334.3	1344.3	1331.5	1340.0
42.5°	3446.8	1930.3	1337.2	1331.5	1358.5	1351.4	1328.6	1300.2	1305.8	1267.5	1273.1
45°	3532.0	1968.8	1314.4	1288.7	1318.7	1317.3	1287.4	1260.3	1226.2	1152.3	1155.1
47.5°	3589.0	1978.7	1260.3	1243.3	1274.5	1293.0	1258.9	1196.3	1148.0	1095.3	1082.5
50°	3647.3	1997.2	1234.8	1199.2	1212.0	1256.0	1213.4	1153.7	1106.7	1059.7	1066.9
52.5°	3698.5	2032.8	1185.0	1132.3	1155.1	1203.5	1180.7	1108.1	1056.9	1018.5	1007.1
55°	3926.1	2112.4	1101.0	1032.7	1086.8	1148.0	1135.2	1047.0	991.5	971.6	968.7
56°	3961.7	2115.3	1056.9	998.6	1048.4	1129.5	1113.8	1020.0	970.2	938.9	940.2
57.5°	3967.3	2081.1	994.3	967.3	1010.0	1102.5	1082.5	998.6	930.3	901.9	893.3
60°	3490.8	1624.5	916.1	899.0	948.8	1020.0	1012.8	940.2	863.5	830.7	846.4
62.5°	2379.9	1190.6	855.0	852.1	877.7	947.4	928.9	863.5	799.5	778.1	768.2
65°	1385.5	903.3	795.2	783.8	805.2	842.1	855.0	786.7	719.8	705.6	701.3
67.5°	818.0	746.8	718.4	699.9	692.7	715.5	725.4	685.7	618.8	598.9	615.9
70°	684.2	664.3	665.7	634.5	617.4	601.7	593.2	557.6	502.2	476.5	469.4
72.5°	590.3	581.8	576.1	547.7	532.0	496.4	459.4	423.9	382.7	361.3	362.7
75°	450.9	448.1	450.9	436.7	409.7	381.2	347.1	301.6	270.3	243.2	248.9
77.5°	268.9	277.4	281.7	275.9	264.6	239.0	217.7	187.8	157.9	136.6	133.7
80°	184.9	192.0	199.1	192.0	180.6	162.1	139.4	116.6	95.3	83.9	81.1
82.5°	140.9	147.9	152.2	145.1	130.9	110.9	95.3	79.6	62.6	51.2	48.4
85°	51.2	58.3	56.9	68.3	74.0	71.1	61.1	46.9	35.6	25.6	24.2
87.5°	14.2	12.8	14.2	14.2	14.2	12.8	11.4	11.4	11.4	7.1	5.7
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)