

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: P452673

Luminaire Tested: **GALN-SA3C-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452673
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-SA3C-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15516 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

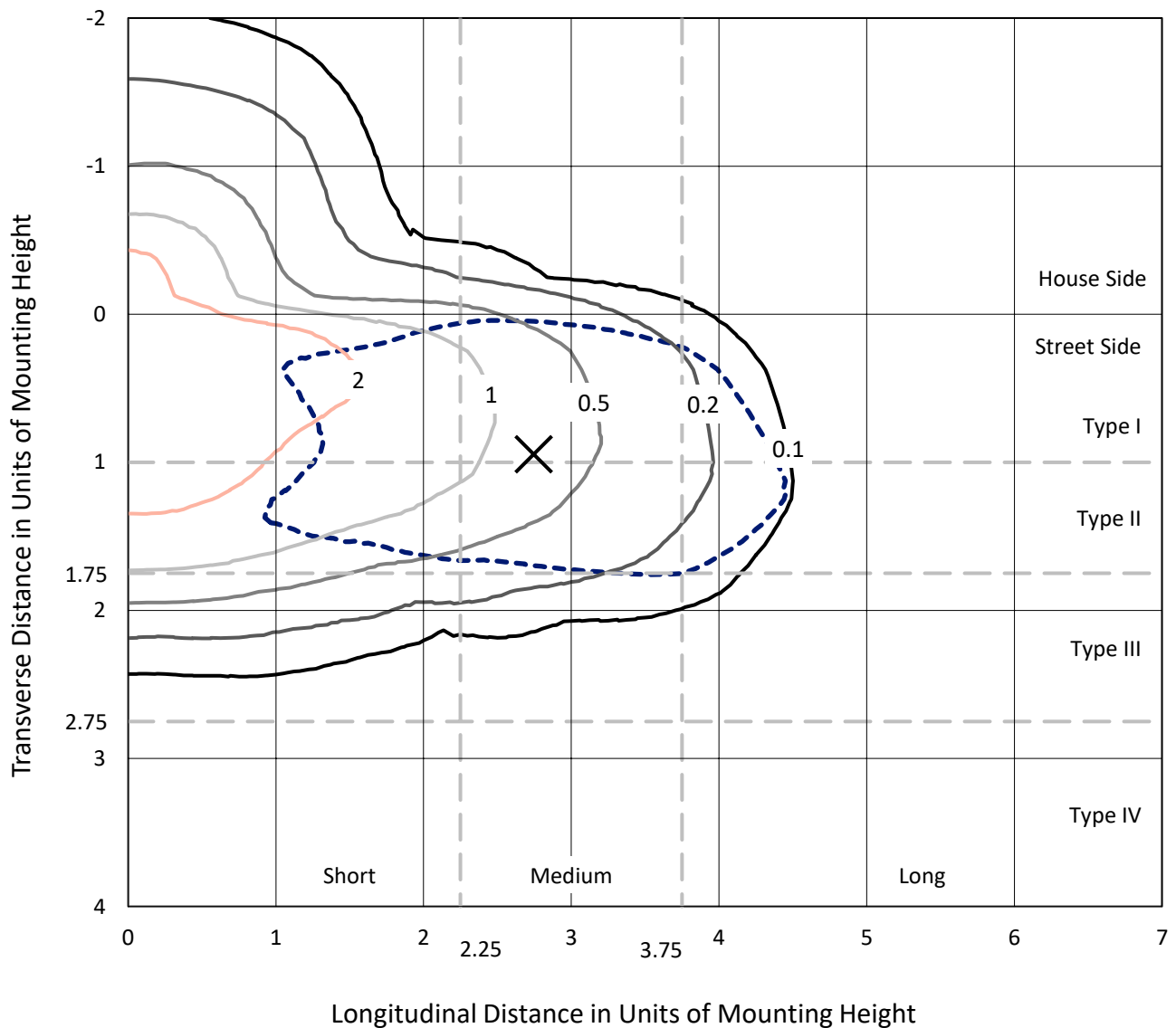
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

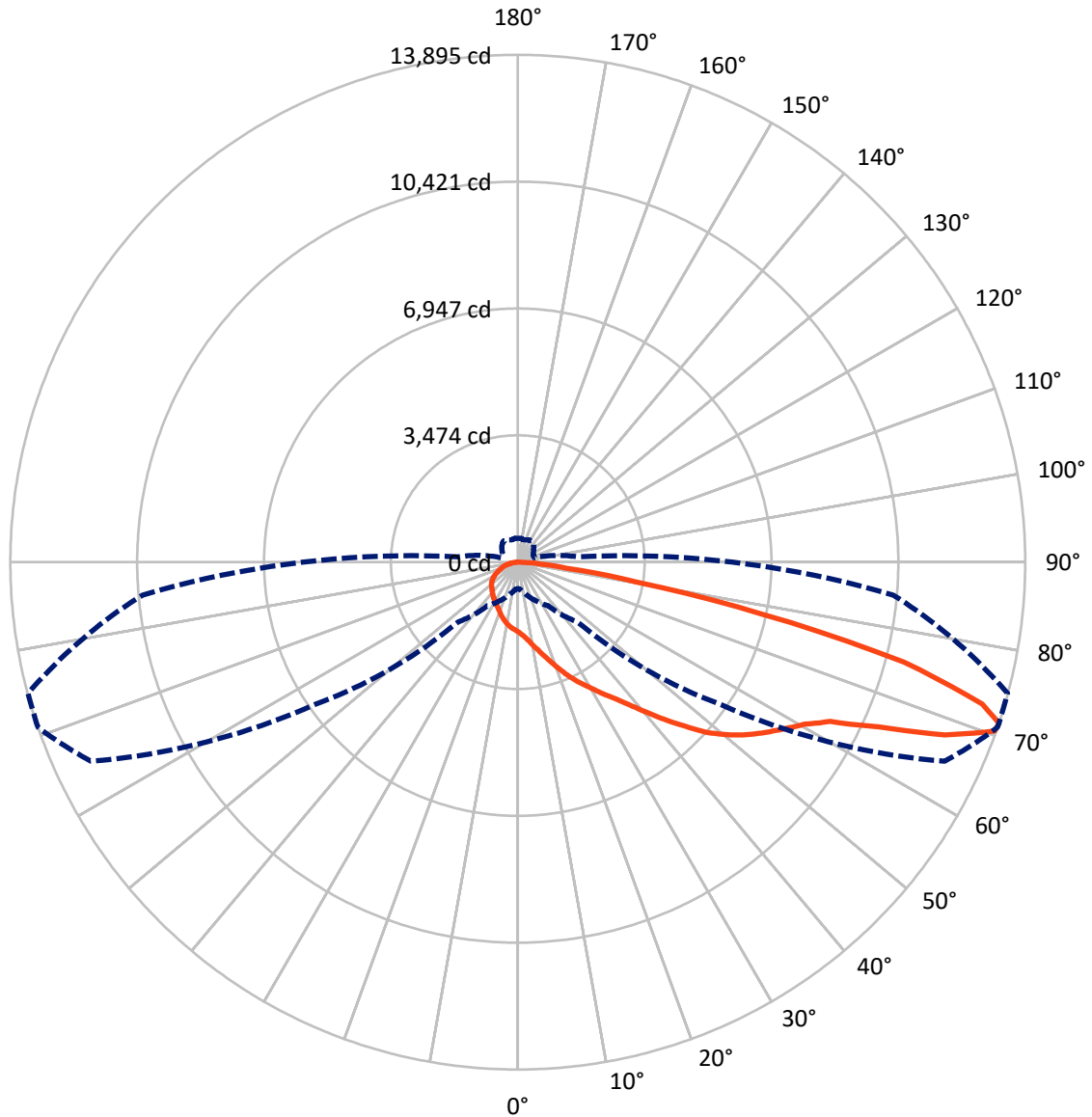
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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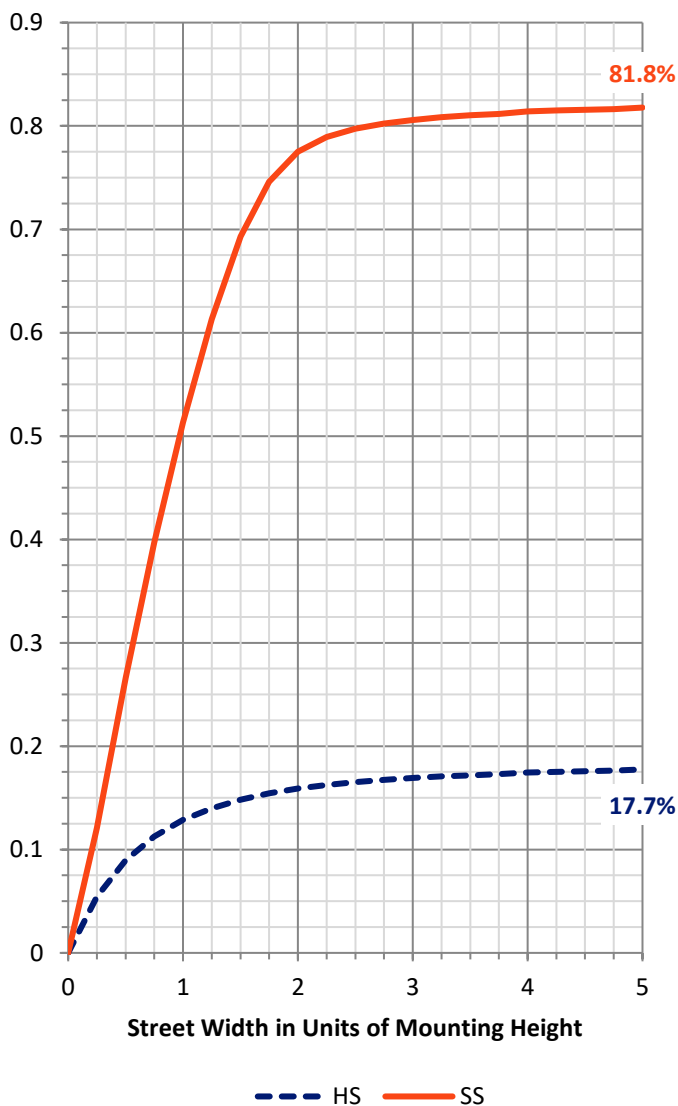
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2790.5	0.0	2790.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	12725.5	0.0	12725.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	15516.0	0.0	15516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	1.2
10°-20°	621.2	4.0
20°-30°	1085.6	7.0
30°-40°	1614.7	10.4
40°-50°	2379.0	15.3
50°-60°	3330.7	21.5
60°-70°	3725.3	24.0
70°-80°	2275.5	14.7
80°-90°	292.7	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°	15516.0	100.0
0°-180°	15516.0	100.0

Coefficient of Utilization



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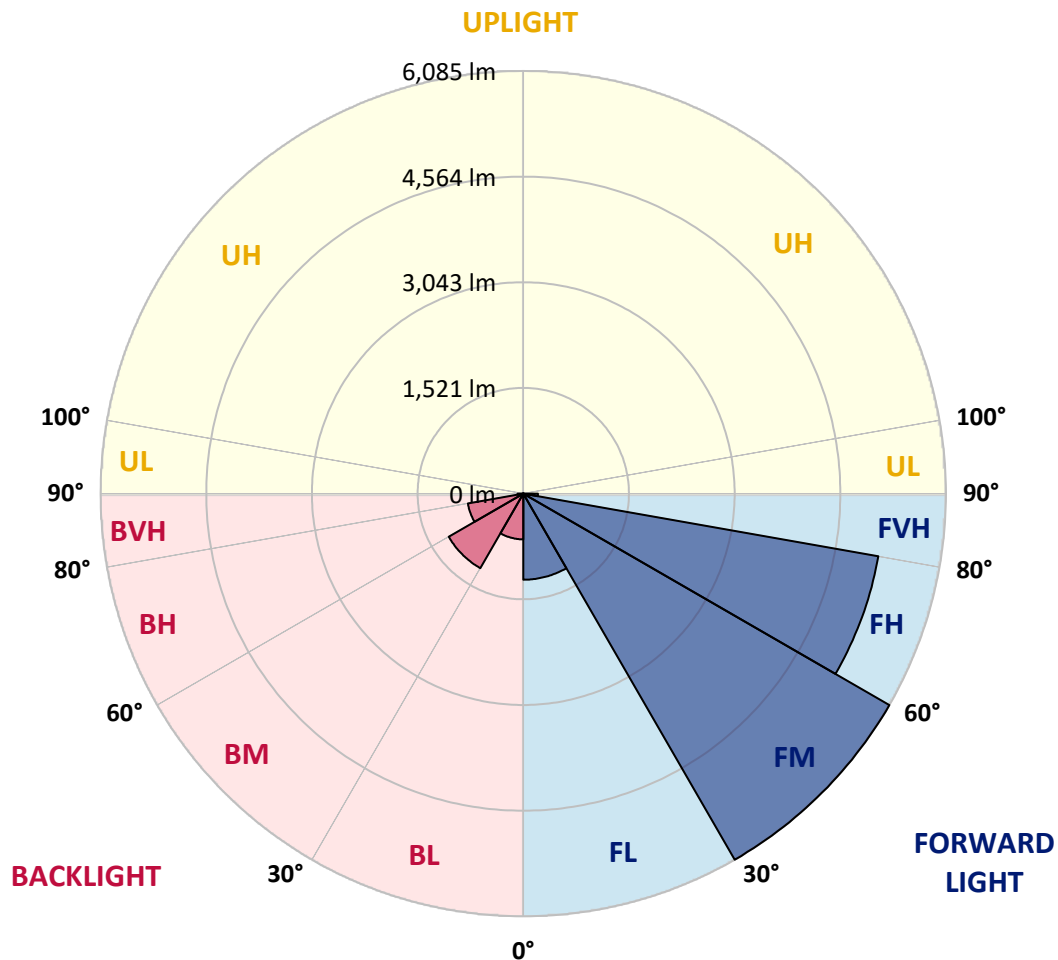
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.7	8.0			
FM (30°-60°)	6085.1	39.2			
FH (60°-80°)	5190.1	33.4			G3/7500
FVH (80°-90°)	210.6	1.4			G2/225
BL (0°-30°)	658.3	4.2	B2/1000		
BM (30°-60°)	1239.4	8.0	B2/2500		
BH (60°-80°)	810.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	82.1	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°	1904.3	1904.3	1904.3	1904.3	1904.3	1904.3	1904.3	1904.3	1904.3	1904.3	1904.3
2.5°	2114.1	2103.8	2104.7	2090.2	2071.4	2051.0	2022.0	1996.4	1975.9	1964.0	1929.0
5°	2342.6	2332.4	2319.6	2288.0	2274.4	2224.1	2160.1	2102.1	2057.8	2033.1	1963.1
7.5°	2527.7	2525.1	2521.7	2503.8	2468.8	2398.9	2344.3	2243.7	2178.0	2131.1	2011.7
10°	2641.9	2646.2	2648.8	2652.2	2637.7	2601.0	2526.0	2398.9	2315.3	2255.6	2074.8
12.5°	2699.9	2704.2	2718.7	2750.3	2769.9	2765.6	2704.2	2579.7	2464.6	2386.1	2142.2
15°	2735.8	2742.6	2768.2	2809.9	2875.6	2917.4	2887.6	2772.4	2646.2	2553.3	2222.4
17.5°	2775.0	2782.7	2810.8	2870.5	2956.6	3047.0	3079.4	2980.5	2843.2	2732.3	2311.9
20°	2797.2	2807.4	2847.5	2925.9	3026.6	3157.9	3265.3	3213.3	3063.2	2940.4	2415.1
22.5°	2833.0	2841.5	2875.6	2959.2	3079.4	3244.0	3451.2	3440.2	3308.0	3149.4	2528.5
25°	2930.2	2943.8	2960.9	3011.2	3127.2	3331.9	3605.6	3682.4	3545.1	3367.7	2632.6
27.5°	3113.5	3124.6	3123.8	3130.6	3196.3	3407.8	3739.5	3922.0	3780.4	3588.5	2733.2
30°	3322.5	3326.7	3330.1	3314.8	3329.3	3485.4	3862.3	4159.1	4017.5	3815.4	2821.0
32.5°	3576.6	3585.1	3556.1	3516.9	3505.0	3600.5	3963.8	4396.1	4298.1	4045.6	2908.0
35°	3876.8	3899.0	3840.1	3771.0	3722.4	3765.9	4100.2	4638.3	4585.5	4339.9	3023.1
37.5°	4219.6	4246.9	4192.3	4056.7	3987.7	3999.6	4278.5	4937.7	4948.7	4675.0	3194.6
40°	4500.2	4536.0	4537.7	4345.8	4240.9	4254.6	4504.4	5260.0	5387.1	5089.5	3396.7
42.5°	4685.2	4720.2	4756.9	4644.3	4534.3	4611.9	4768.0	5609.7	5880.0	5592.6	3678.9
45°	4888.2	4919.8	4940.2	4889.1	4827.7	5028.9	5086.0	5981.5	6405.3	6154.6	3987.7
47.5°	5123.6	5158.5	5178.1	5129.5	5106.5	5394.8	5428.9	6328.6	6966.5	6700.4	4328.8
50°	5437.4	5463.8	5453.6	5422.9	5417.8	5675.3	5758.0	6653.5	7429.5	7288.0	4682.7
52.5°	5828.0	5859.5	5870.6	5827.1	5807.5	5875.7	6023.3	6949.4	7850.8	7792.8	5060.5
55°	6064.2	6114.5	6283.4	6351.6	6398.5	6135.0	6308.9	7276.0	8228.6	8324.9	5466.4
57.5°	5761.5	5826.3	6204.1	6545.2	6986.1	6783.1	6714.0	7617.1	8606.4	8840.9	5952.5
60°	5022.9	5037.4	5524.4	6152.9	7039.8	7616.3	7559.1	8159.5	9015.7	9361.1	6592.9
62.5°	3484.5	3515.2	4090.8	5093.7	6376.3	7916.5	8996.9	9095.9	9602.4	10139.7	7531.9
65°	1796.8	1756.8	2281.2	3201.4	4807.2	7203.5	10161.9	10817.7	10874.8	11357.5	8853.7
67.5°	1106.1	1124.0	1369.6	1869.3	2842.4	5235.3	10039.9	12921.5	12620.5	12852.4	10080.8
70°	830.6	852.8	1021.6	1279.2	1732.9	2993.3	8074.2	13431.5	13851.9	13792.2	10454.4
71°	722.3	745.3	921.0	1164.1	1455.7	2310.2	6802.7	12897.6	13894.5	13884.3	10313.7
72.5°	615.7	630.2	767.5	985.8	1227.2	1619.5	5110.8	11567.3	13301.8	13642.1	9811.4
75°	483.5	494.6	556.0	752.2	966.2	994.4	2742.6	8672.0	10925.1	11573.2	8168.0
77.5°	394.0	401.7	433.2	558.6	745.3	704.4	1438.7	5644.6	6844.5	7496.9	4811.4
80°	313.0	321.5	340.3	378.6	558.6	502.3	686.5	2860.3	3306.3	3299.4	1920.5
82.5°	243.0	245.6	267.8	278.0	382.1	356.5	371.8	1211.0	1341.4	1385.8	693.3
85°	153.5	161.2	237.1	213.2	228.5	208.9	183.4	481.0	592.7	584.2	277.2
87.5°	46.9	49.5	80.2	90.4	101.5	91.2	67.4	141.6	173.1	187.6	69.1
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°	1904.3	1904.3	1904.3	1904.3	1904.3	1904.3	1904.3	1904.3	1904.3	1904.3	1904.3
2.5°	1915.4	1906.0	1872.7	1845.4	1819.9	1791.7	1767.8	1761.0	1755.0	1752.5	1751.6
5°	1933.3	1905.1	1839.5	1785.7	1743.1	1703.9	1679.1	1668.1	1657.0	1657.0	1660.4
7.5°	1958.9	1907.7	1806.2	1726.0	1672.3	1635.7	1617.7	1616.0	1618.6	1621.2	1622.0
10°	1987.0	1906.0	1757.6	1657.8	1610.1	1593.0	1593.9	1608.4	1622.0	1632.2	1633.9
12.5°	2014.3	1895.8	1700.5	1593.9	1563.2	1566.6	1590.5	1622.9	1649.3	1663.8	1664.6
15°	2045.0	1879.6	1631.4	1533.3	1523.1	1549.5	1593.9	1643.3	1683.4	1707.3	1709.8
17.5°	2070.6	1852.3	1558.9	1474.5	1487.3	1535.9	1597.3	1661.2	1709.8	1739.7	1744.8
20°	2099.6	1817.3	1483.9	1418.2	1454.9	1520.5	1590.5	1659.5	1709.8	1738.8	1745.7
22.5°	2122.6	1767.8	1412.2	1372.1	1425.9	1501.8	1567.4	1622.9	1663.8	1679.1	1689.4
25°	2132.0	1705.6	1344.9	1334.6	1402.8	1471.1	1515.4	1547.0	1559.8	1558.0	1562.3
27.5°	2126.9	1633.9	1286.9	1304.8	1373.8	1423.3	1445.5	1442.9	1419.9	1398.6	1408.8
30°	2105.5	1548.7	1238.3	1274.1	1336.3	1363.6	1360.2	1326.9	1283.5	1243.4	1245.9
32.5°	2067.2	1456.6	1193.1	1239.1	1283.5	1295.4	1272.4	1228.9	1166.6	1114.6	1106.9
35°	2034.8	1368.7	1153.0	1199.0	1230.6	1224.6	1202.4	1146.2	1089.9	1043.8	1036.1
37.5°	2029.6	1293.7	1114.6	1153.8	1171.7	1163.2	1135.9	1088.2	1067.7	1032.7	1028.5
40°	2056.9	1240.8	1075.4	1106.1	1114.6	1107.8	1077.9	1050.6	1069.4	1060.9	1060.9
42.5°	2131.1	1212.7	1040.4	1058.3	1065.1	1070.3	1048.9	1025.9	1048.9	1009.7	996.9
45°	2248.8	1213.5	1008.9	1011.4	1031.9	1049.8	1035.3	1001.2	989.2	910.8	895.4
47.5°	2421.9	1242.5	983.3	967.1	1003.7	1033.6	1013.1	963.7	910.8	858.8	849.4
50°	2624.0	1294.5	960.2	921.0	966.2	1013.1	997.8	939.8	885.2	853.6	847.7
52.5°	2848.3	1360.2	932.1	869.8	920.2	1003.7	1001.2	936.4	861.3	840.0	834.9
55°	3125.5	1425.0	897.1	810.2	879.2	996.1	991.8	908.2	856.2	840.9	839.1
57.5°	3447.8	1518.8	846.8	749.6	832.3	964.5	955.1	891.2	839.1	828.1	827.2
60°	3967.2	1664.6	775.2	694.2	784.6	909.1	921.0	862.2	811.9	809.3	808.4
62.5°	4650.3	1869.3	701.0	637.0	729.1	837.4	871.6	822.9	782.9	795.7	797.4
65°	5593.5	2041.6	624.2	588.4	667.7	768.4	824.6	786.3	750.5	775.2	775.2
67.5°	6208.3	2045.0	554.3	538.1	605.5	710.4	775.2	742.8	708.7	750.5	752.2
70°	6080.4	1791.7	496.3	485.2	544.9	648.1	720.6	695.0	655.8	693.3	679.7
71°	5874.0	1651.0	473.3	464.8	521.1	618.3	695.0	673.7	634.5	659.2	651.5
72.5°	5544.8	1433.5	435.8	437.5	485.2	580.8	659.2	637.0	597.8	611.5	608.9
75°	4686.9	1251.9	372.7	380.3	417.0	516.8	587.6	570.5	530.4	530.4	527.9
77.5°	2930.2	875.0	309.6	313.8	353.9	442.6	504.9	490.4	452.0	439.2	435.8
80°	1093.3	452.0	242.2	247.3	272.0	348.8	417.9	404.2	365.0	350.5	336.9
82.5°	413.6	226.8	178.2	174.0	200.4	266.1	327.5	311.3	280.6	245.6	235.4
85°	156.1	112.6	109.2	105.7	117.7	157.8	203.0	199.6	167.1	142.4	139.9
87.5°	40.9	36.7	42.6	31.6	33.3	29.8	30.7	12.8	6.0	2.6	1.7
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)