

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: P458997

Luminaire Tested: **GALN-SA5A-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21742 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

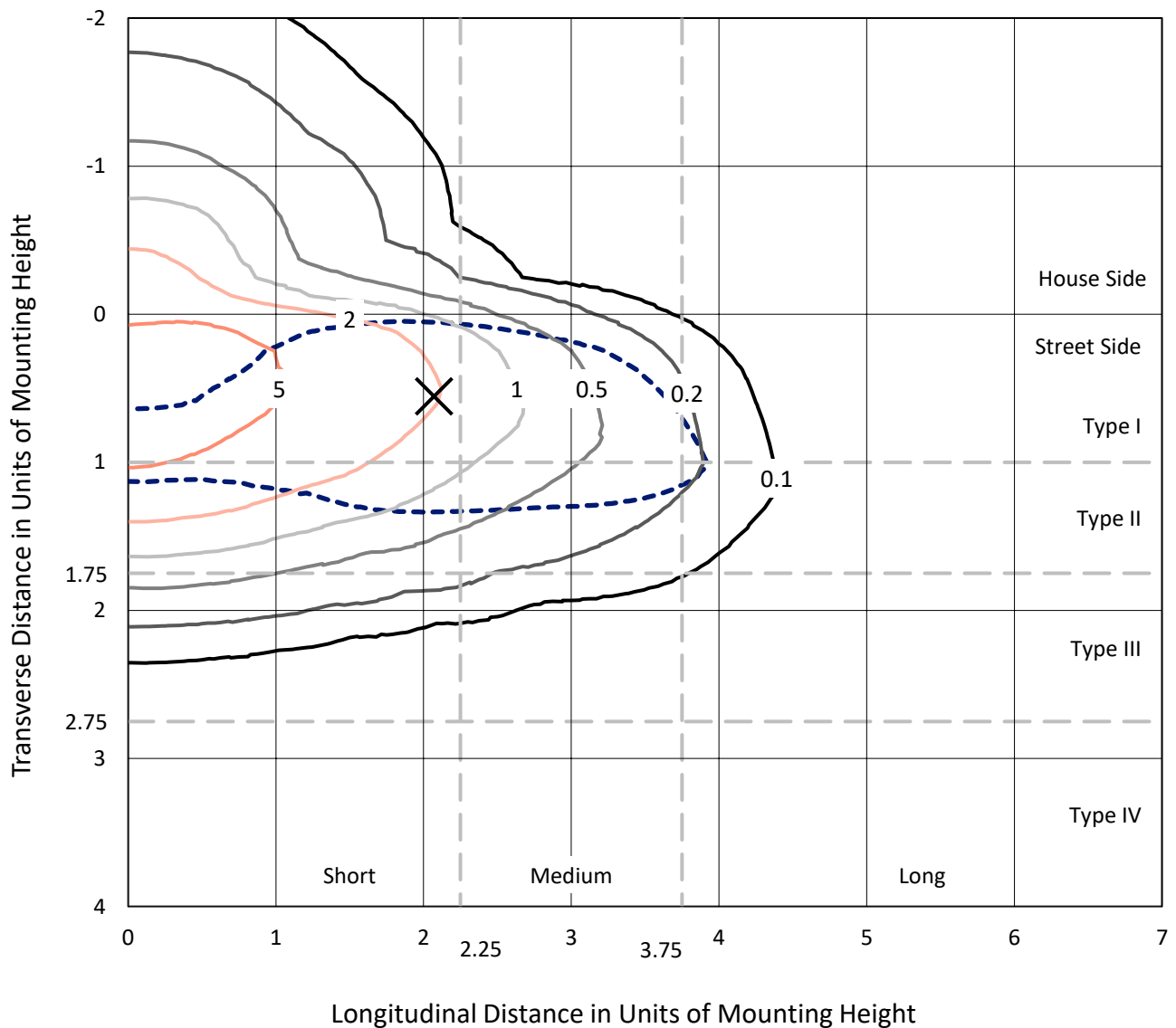
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458997
 CATALOG NUMBER: GALN-SA5A-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

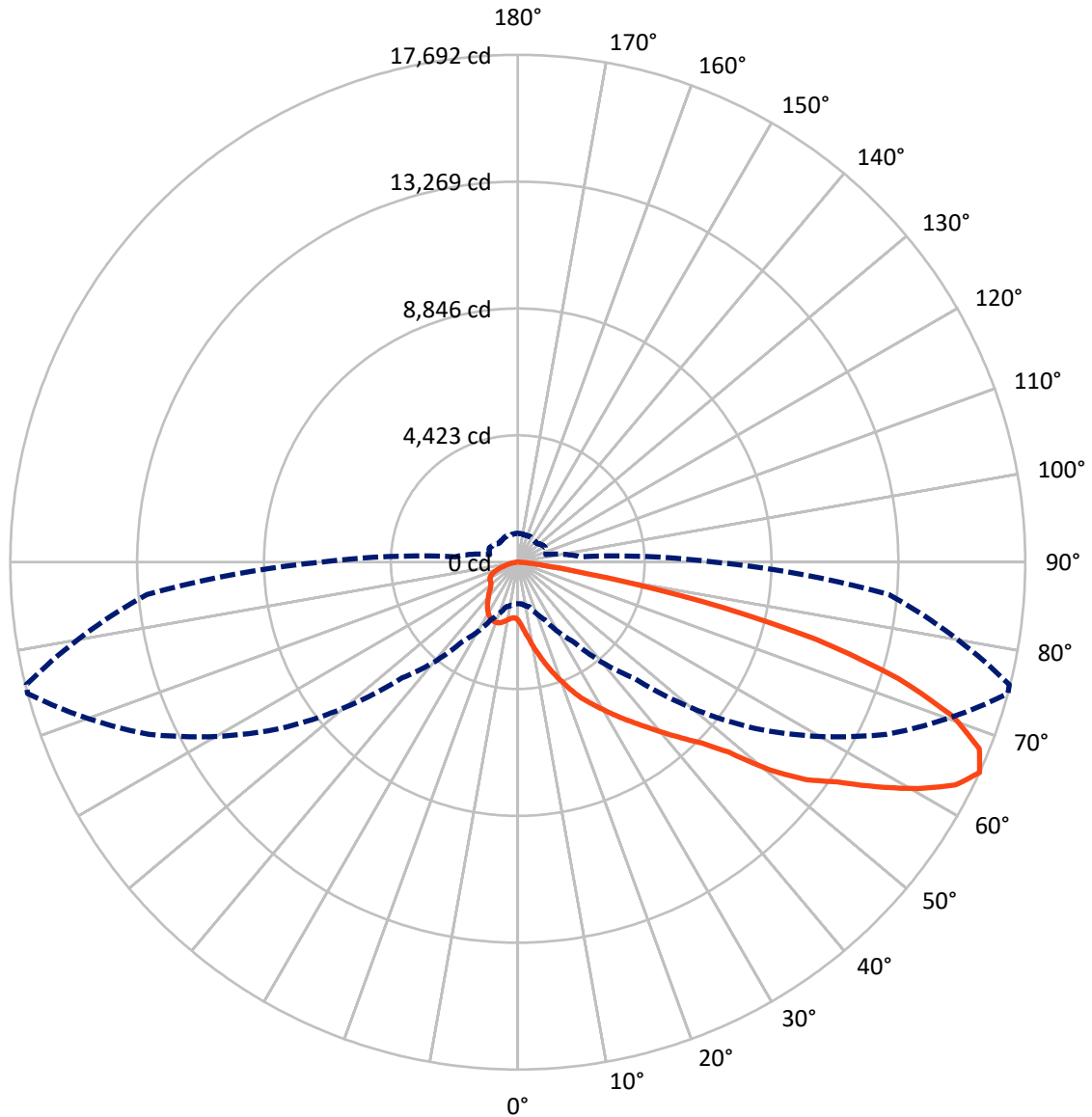
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

REPORT NUMBER: P458997
CATALOG NUMBER: GALN-SA5A-735-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



REPORT NUMBER: P458997

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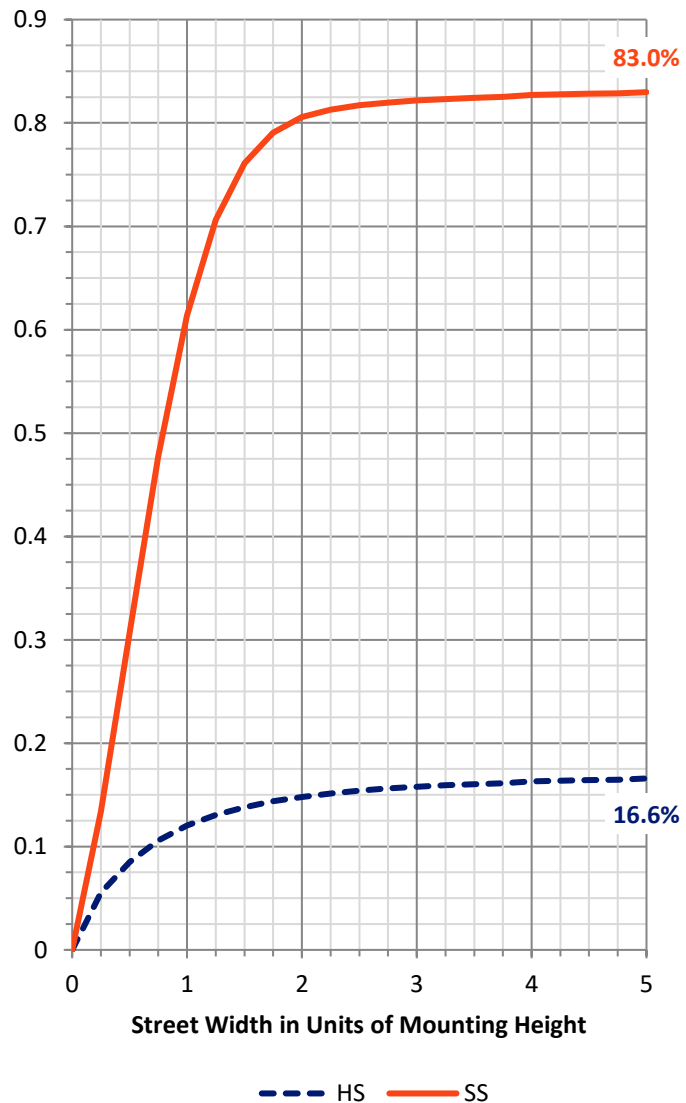
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3655.1	0.0	3655.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	18086.9	0.0	18086.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	21742.0	0.0	21742.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	1.1
10°-20°	961.3	4.4
20°-30°	1857.0	8.5
30°-40°	3016.3	13.9
40°-50°	4149.2	19.1
50°-60°	4898.8	22.5
60°-70°	4292.2	19.7
70°-80°	2049.1	9.4
80°-90°	272.7	1.3
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°	21742.0	100.0
0°-180°	21742.0	100.0



REPORT NUMBER: P458997

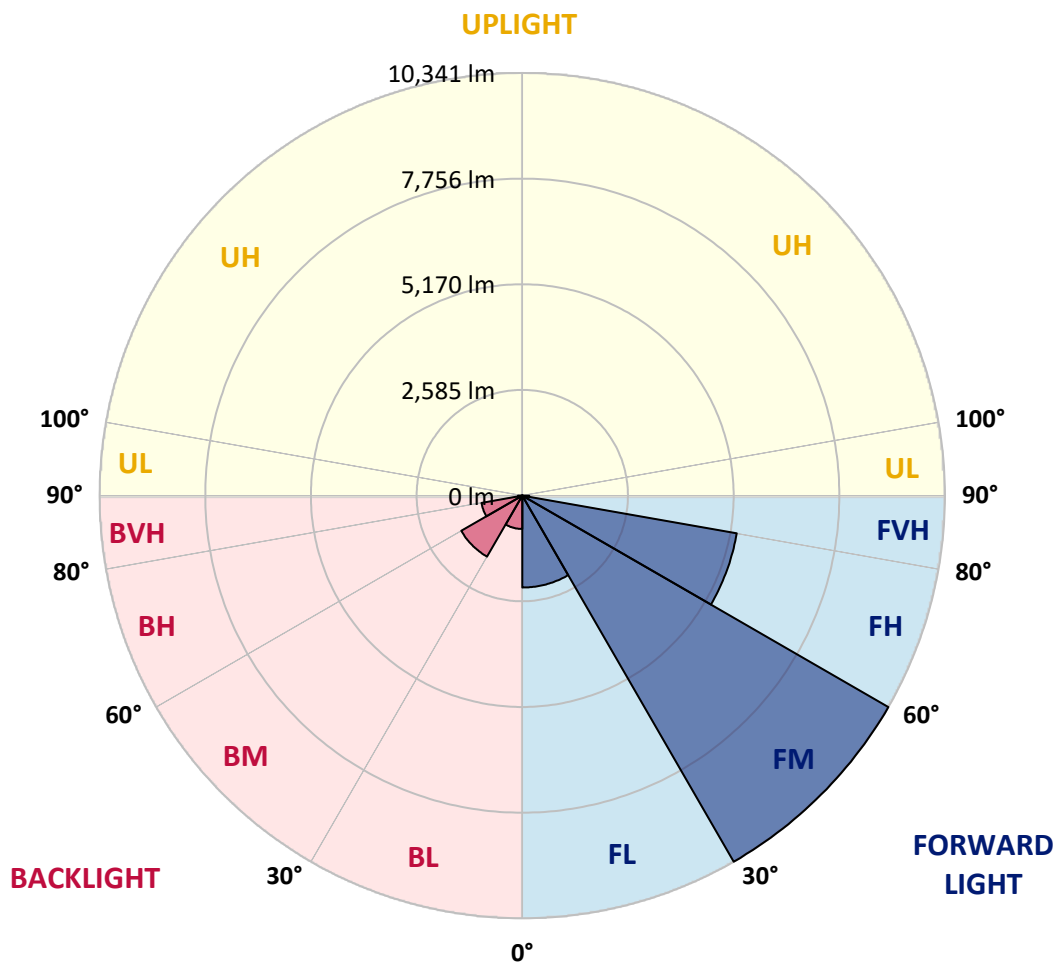
CATALOG NUMBER: GALN-SA5A-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2247.8	10.3			
FM	(30°-60°)	10340.9	47.6			
FH	(60°-80°)	5327.8	24.5			G3/7500
FVH	(80°-90°)	170.4	0.8			G2/225
BL	(0°-30°)	816.0	3.8	B2/1000		
BM	(30°-60°)	1723.4	7.9	B2/2500		
BH	(60°-80°)	1013.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	102.3	0.5			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 II Short





REPORT NUMBER: P458997

CATALOG NUMBER: GALN-SA5A-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1
2.5°	2684.0	2666.4	2647.5	2595.6	2540.2	2477.7	2388.0	2302.0	2187.6	2184.0	2099.1
5°	3428.2	3416.4	3332.6	3284.3	3155.8	2984.8	2839.7	2614.5	2405.7	2381.0	2215.9
7.5°	4112.1	4066.2	4034.3	3947.0	3819.7	3600.3	3319.7	3015.4	2666.4	2633.3	2359.7
10°	4627.5	4622.8	4606.3	4530.8	4435.3	4217.1	3905.8	3469.4	2996.6	2931.7	2534.3
12.5°	5013.1	5016.7	5014.3	5013.1	4944.7	4759.6	4422.3	3962.4	3330.3	3284.3	2735.9
15°	5266.7	5302.0	5316.2	5375.2	5381.1	5257.2	4967.1	4438.8	3706.5	3638.1	2952.9
17.5°	5434.1	5451.8	5517.9	5618.1	5699.5	5677.1	5418.8	4879.9	4090.9	3976.5	3178.2
20°	5594.5	5625.2	5675.9	5812.7	5956.5	6022.6	5841.0	5331.5	4471.8	4398.7	3427.0
22.5°	5928.2	5971.9	5989.6	6059.1	6181.8	6298.5	6216.0	5764.3	4889.3	4790.2	3691.1
25°	6493.1	6539.1	6489.6	6473.1	6513.2	6570.9	6553.3	6172.4	5283.2	5141.7	3941.2
27.5°	7229.0	7234.9	7138.2	7046.2	6947.1	6917.7	6863.4	6534.4	5625.2	5507.2	4192.3
30°	8019.1	7990.8	7830.4	7664.1	7496.7	7331.6	7175.9	6883.5	6006.1	5870.5	4438.8
32.5°	8752.6	8737.3	8559.2	8301.0	8017.9	7862.3	7547.4	7236.1	6414.1	6283.2	4692.4
35°	9302.2	9324.6	9128.8	8847.0	8538.0	8400.0	8002.6	7606.4	6836.3	6693.6	4968.3
37.5°	9692.5	9680.7	9507.4	9263.2	8992.0	8871.7	8534.4	8010.8	7290.3	7153.5	5270.2
40°	9831.7	9824.6	9696.0	9518.0	9345.8	9303.3	9091.1	8447.2	7810.4	7650.0	5633.4
42.5°	9743.2	9758.5	9673.6	9625.3	9593.4	9624.1	9644.2	9019.1	8377.6	8230.2	6027.3
45°	9472.0	9463.7	9451.9	9530.9	9710.2	9911.8	10191.3	9559.2	8994.4	8876.4	6555.6
47.5°	8987.3	9046.3	9075.7	9293.9	9685.4	10163.0	10821.1	10283.3	9889.4	9786.8	7361.1
50°	8309.2	8356.4	8530.9	8918.9	9502.6	10257.4	11436.7	11467.3	11382.4	11190.2	8236.1
52.5°	7250.2	7323.3	7683.0	8394.1	9127.6	10218.5	11809.3	12482.7	12594.7	12450.8	9098.1
55°	6065.0	6167.6	6547.4	7480.2	8611.1	10006.2	12066.4	13071.1	13518.1	13384.8	9928.4
57.5°	4904.6	5013.1	5403.5	6306.8	7710.1	9536.8	12235.0	13726.8	14775.2	14601.8	10961.4
60°	3675.8	3789.0	4123.9	5054.4	6427.1	8619.4	12120.6	14295.2	16031.1	15956.8	11995.6
62.5°	2371.5	2496.5	2787.8	3557.9	4940.0	7365.8	11508.6	14608.9	17118.4	17028.8	12750.4
65°	1444.6	1458.8	1619.2	2208.8	3381.0	5703.0	10108.8	14192.6	17691.6	17664.4	12980.3
67.5°	934.0	956.4	1029.5	1323.2	2027.2	3961.2	8082.8	12818.8	17356.6	17347.2	12505.1
70°	788.9	796.0	829.0	892.7	1178.1	2402.2	5675.9	10628.8	16084.2	16084.2	11362.4
72.5°	705.2	714.6	726.4	746.5	840.8	1360.9	3386.9	8273.8	13887.2	13979.2	9671.3
75°	640.3	638.0	645.1	648.6	717.0	889.2	1751.2	6119.3	10743.2	10559.3	7003.7
77.5°	548.4	551.9	548.4	563.7	633.3	676.9	889.2	4106.3	6510.8	6272.6	3515.4
80°	450.5	456.4	462.3	471.7	541.3	514.2	534.2	1871.5	2408.1	2357.4	1086.1
82.5°	338.5	346.7	356.1	378.5	425.7	339.6	337.3	799.6	869.1	796.0	399.8
85°	136.8	161.6	244.1	266.5	267.7	186.3	207.6	333.7	355.0	346.7	156.8
87.5°	31.8	37.7	79.0	119.1	109.7	69.6	76.7	108.5	123.8	114.4	53.1
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: P458997

CATALOG NUMBER: GALN-SA5A-735-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1
2.5°	2060.2	2018.9	1948.2	1893.9	1855.0	1820.8	1799.6	1786.6	1781.9	1780.7	1781.9
5°	2129.8	2056.7	1944.6	1873.9	1835.0	1812.6	1799.6	1798.4	1799.6	1800.8	1797.2
7.5°	2225.3	2120.3	1974.1	1908.1	1878.6	1862.1	1856.2	1853.8	1855.0	1853.8	1853.8
10°	2352.7	2208.8	2031.9	1963.5	1938.7	1919.9	1910.4	1904.5	1899.8	1895.1	1892.7
12.5°	2493.0	2306.7	2094.4	2028.4	1993.0	1963.5	1942.3	1926.9	1916.3	1905.7	1903.4
15°	2649.8	2410.4	2164.0	2072.0	2021.3	1977.7	1941.1	1916.3	1897.5	1882.1	1881.0
17.5°	2799.6	2508.3	2211.1	2092.0	2017.7	1956.4	1908.1	1873.9	1850.3	1830.2	1827.9
20°	2960.0	2601.5	2232.4	2079.1	1982.4	1908.1	1844.4	1803.1	1776.0	1753.6	1750.1
22.5°	3121.6	2680.5	2230.0	2037.8	1921.0	1833.8	1766.6	1722.9	1691.1	1668.7	1660.4
25°	3276.0	2744.2	2200.5	1971.8	1836.1	1745.3	1676.9	1636.8	1608.5	1581.4	1581.4
27.5°	3415.2	2781.9	2145.1	1891.6	1748.9	1653.4	1599.1	1562.5	1536.6	1518.9	1508.3
30°	3552.0	2799.6	2069.6	1790.1	1656.9	1575.5	1531.9	1510.7	1487.1	1467.0	1464.7
32.5°	3674.6	2796.1	1975.3	1691.1	1569.6	1511.8	1494.1	1477.6	1452.9	1424.6	1417.5
35°	3793.7	2772.5	1863.3	1582.6	1496.5	1474.1	1478.8	1455.2	1410.4	1375.0	1369.1
37.5°	3923.5	2730.0	1740.6	1494.1	1435.2	1456.4	1468.2	1416.3	1343.2	1287.8	1274.8
40°	4073.2	2681.7	1613.3	1405.7	1386.8	1439.9	1439.9	1344.4	1244.1	1209.9	1200.5
42.5°	4248.9	2641.6	1507.1	1331.4	1346.7	1399.8	1393.9	1248.9	1207.6	1189.9	1185.2
45°	4527.3	2627.4	1397.4	1266.5	1313.7	1352.6	1304.3	1215.8	1192.3	1178.1	1173.4
47.5°	4967.1	2643.9	1300.7	1218.2	1276.0	1305.5	1204.0	1193.4	1176.9	1156.9	1154.5
50°	5375.2	2628.6	1232.3	1191.1	1243.0	1248.9	1162.8	1166.3	1156.9	1134.5	1129.8
52.5°	5708.9	2580.3	1188.7	1176.9	1214.7	1149.8	1123.9	1136.8	1133.3	1105.0	1100.3
55°	6075.6	2550.8	1167.5	1176.9	1195.8	1063.7	1087.3	1106.2	1101.4	1081.4	1080.2
57.5°	6520.2	2556.7	1152.2	1180.5	1176.9	1020.1	1050.7	1073.1	1072.0	1066.1	1066.1
60°	6975.4	2559.0	1128.6	1179.3	1154.5	985.9	1013.0	1044.8	1047.2	1050.7	1050.7
62.5°	7126.4	2456.4	1082.6	1158.1	1105.0	952.9	977.6	1021.3	1018.9	1028.3	1029.5
65°	6844.5	2172.2	1014.2	1109.7	1041.3	929.3	950.5	990.6	977.6	1002.4	1007.1
67.5°	6230.1	1797.2	908.0	1022.4	970.5	904.5	932.8	948.1	924.6	972.9	974.1
70°	5384.6	1403.3	773.6	898.6	890.4	878.6	918.7	895.1	862.1	921.0	909.2
72.5°	4502.5	1072.0	617.9	734.7	783.0	839.6	893.9	826.7	780.7	798.4	777.1
75°	3382.2	792.5	496.5	575.5	652.1	784.2	871.5	744.1	673.4	656.9	652.1
77.5°	1724.1	517.7	371.5	430.4	489.4	708.7	840.8	647.4	557.8	531.9	520.1
80°	615.6	321.9	261.8	297.2	330.2	609.7	734.7	535.4	432.8	428.1	432.8
82.5°	285.4	207.6	175.7	194.6	195.8	406.9	560.2	399.8	329.0	500.0	422.2
85°	122.6	103.8	99.1	96.7	89.6	181.6	314.9	214.6	334.9	149.8	138.0
87.5°	36.6	41.3	36.6	27.1	20.0	20.0	31.8	11.8	8.3	5.9	5.9
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)