

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: P458823

Luminaire Tested: **GALN-SA3C-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458823
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-SA3C-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19925 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

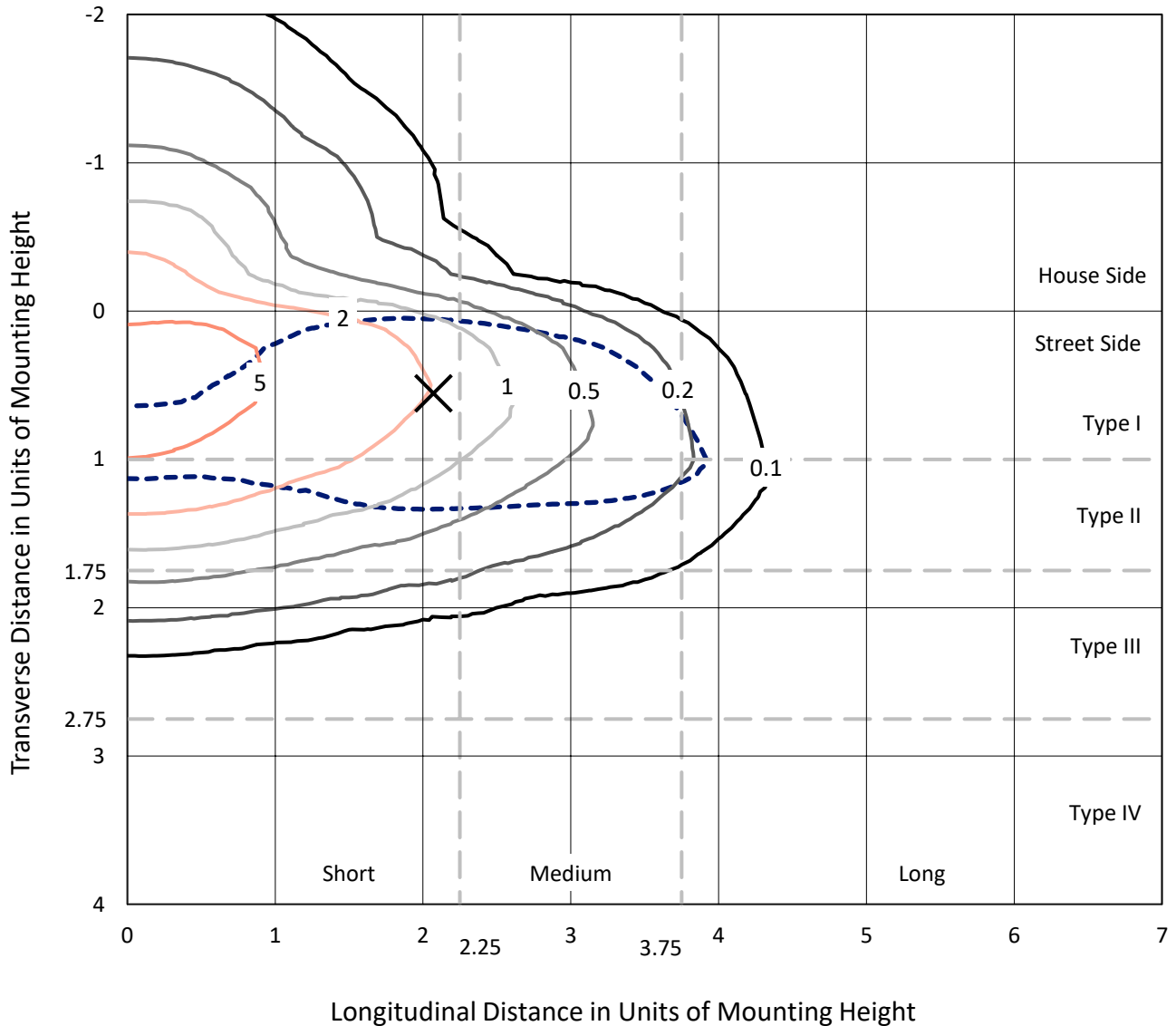
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

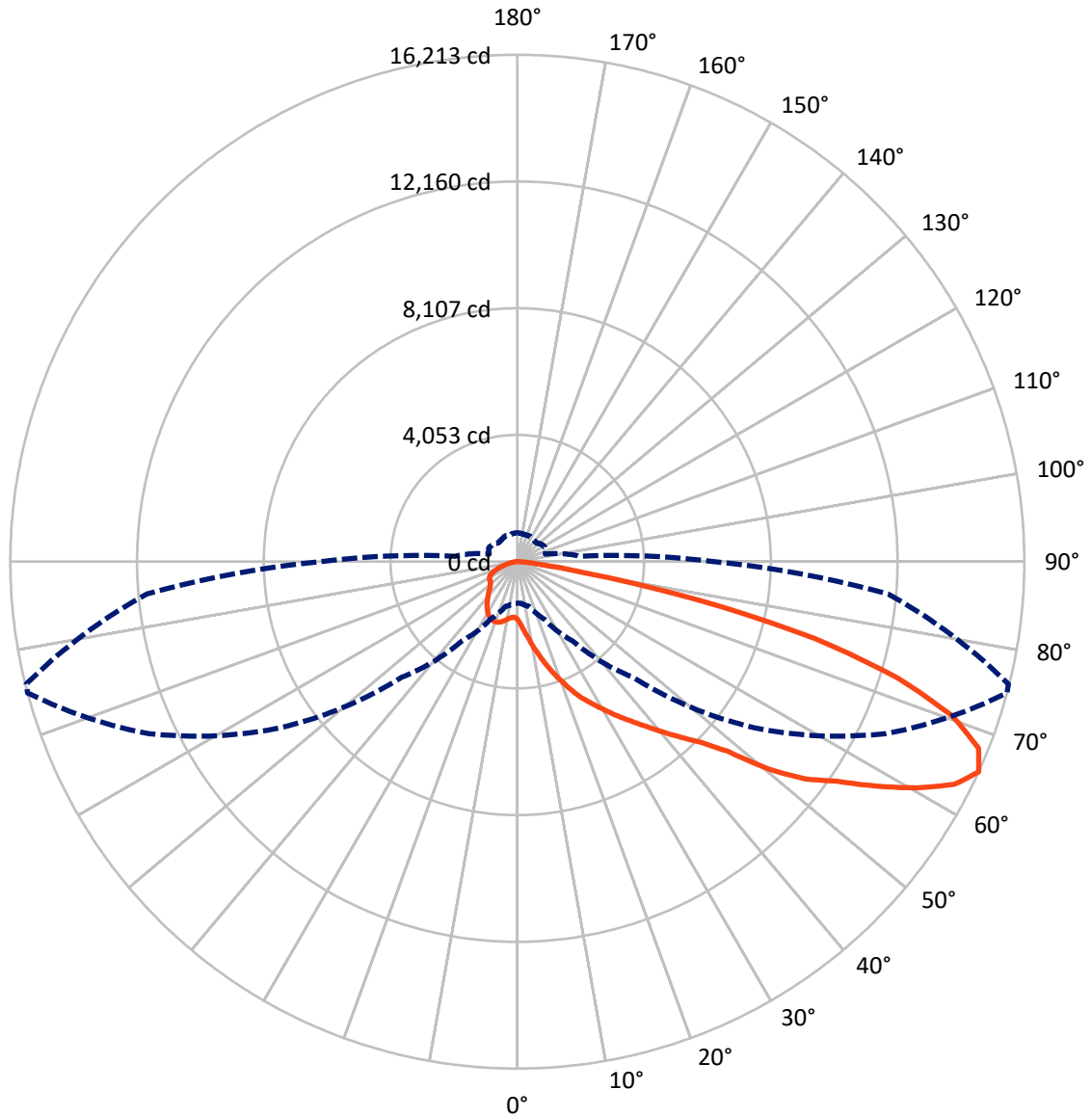
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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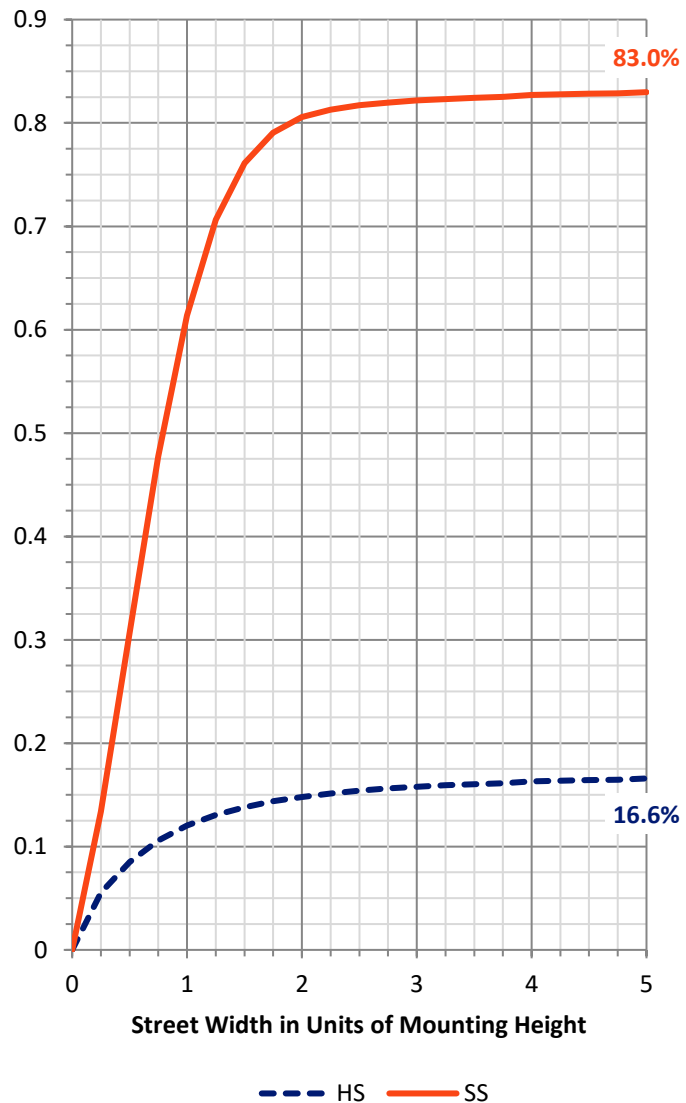
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3349.6	0.0	3349.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	16575.3	0.0	16575.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	19925.0	0.0	19925.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	1.1
10°-20°	881.0	4.4
20°-30°	1701.8	8.5
30°-40°	2764.2	13.9
40°-50°	3802.4	19.1
50°-60°	4489.4	22.5
60°-70°	3933.5	19.7
70°-80°	1877.9	9.4
80°-90°	249.9	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°	19925.0	100.0
0°-180°	19925.0	100.0



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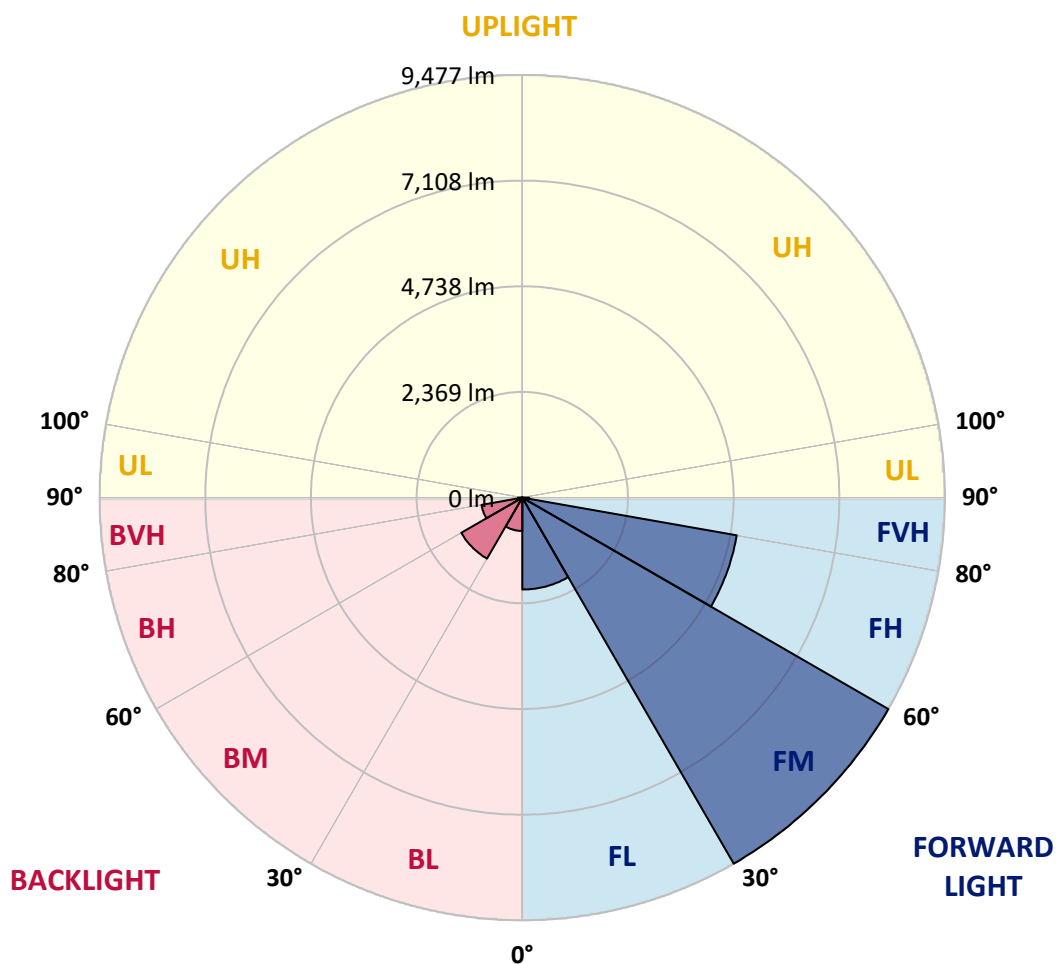
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2059.9	10.3			
FM	(30°-60°)	9476.8	47.6			
FH	(60°-80°)	4882.5	24.5			G2/5000
FVH	(80°-90°)	156.2	0.8			G2/225
BL	(0°-30°)	747.8	3.8	B2/1000		
BM	(30°-60°)	1579.3	7.9	B2/2500		
BH	(60°-80°)	928.8	4.7	B2/1000		G2/1000
BVH	(80°-90°)	93.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1851.3	1851.3	1851.3	1851.3	1851.3	1851.3	1851.3	1851.3	1851.3	1851.3	1851.3
2.5°	2459.7	2443.5	2426.2	2378.7	2327.9	2270.6	2188.5	2109.6	2004.7	2001.5	1923.7
5°	3141.7	3130.9	3054.1	3009.8	2892.0	2735.3	2602.4	2396.0	2204.7	2182.0	2030.7
7.5°	3768.5	3726.3	3697.2	3617.2	3500.5	3299.5	3042.2	2763.4	2443.5	2413.3	2162.5
10°	4240.8	4236.4	4221.3	4152.2	4064.6	3864.7	3579.4	3179.5	2746.1	2686.7	2322.5
12.5°	4594.2	4597.4	4595.2	4594.2	4531.5	4361.8	4052.7	3631.2	3052.0	3009.8	2507.3
15°	4826.5	4858.9	4871.9	4926.0	4931.4	4817.9	4552.0	4067.9	3396.7	3334.0	2706.1
17.5°	4980.0	4996.2	5056.7	5148.6	5223.2	5202.6	4965.9	4472.0	3749.0	3644.2	2912.6
20°	5127.0	5155.1	5201.5	5326.9	5458.7	5519.3	5352.8	4886.0	4098.1	4031.1	3140.6
22.5°	5432.8	5472.8	5489.0	5552.8	5665.2	5772.2	5696.5	5282.6	4480.7	4389.9	3382.7
25°	5950.5	5992.6	5947.2	5932.1	5968.9	6021.8	6005.6	5656.5	4841.7	4712.0	3611.8
27.5°	6624.9	6630.3	6541.6	6457.3	6366.6	6339.5	6289.8	5988.3	5155.1	5047.0	3842.0
30°	7348.9	7323.0	7176.0	7023.6	6870.2	6718.9	6576.2	6308.2	5504.1	5379.9	4067.9
32.5°	8021.2	8007.1	7843.9	7607.2	7347.9	7205.2	6916.6	6631.3	5878.1	5758.1	4300.2
35°	8524.8	8545.3	8365.9	8107.6	7824.5	7698.0	7333.8	6970.7	6265.0	6134.2	4553.1
37.5°	8882.5	8871.7	8712.8	8489.1	8240.5	8130.3	7821.2	7341.4	6681.1	6555.7	4829.8
40°	9010.0	9003.5	8885.7	8722.5	8564.8	8525.8	8331.3	7741.2	7157.7	7010.7	5162.6
42.5°	8929.0	8943.0	8865.2	8820.9	8791.7	8819.8	8838.2	8265.4	7677.5	7542.4	5523.6
45°	8680.4	8672.8	8662.0	8734.4	8898.7	9083.5	9339.6	8760.4	8242.7	8134.6	6007.8
47.5°	8236.2	8290.3	8317.3	8517.2	8876.0	9313.7	9916.7	9423.9	9063.0	8968.9	6745.9
50°	7614.8	7658.0	7818.0	8173.5	8708.5	9400.2	10480.9	10509.0	10431.2	10255.0	7547.8
52.5°	6644.3	6711.3	7040.9	7692.6	8364.8	9364.5	10822.4	11439.5	11542.2	11410.3	8337.8
55°	5558.2	5652.2	6000.2	6855.0	7891.5	9170.0	11058.0	11978.8	12388.4	12266.2	9098.6
57.5°	4494.7	4594.2	4951.9	5779.7	7065.8	8739.8	11212.5	12579.7	13540.4	13381.6	10045.4
60°	3368.6	3472.4	3779.3	4632.0	5890.0	7899.0	11107.7	13100.6	14691.4	14623.3	10993.1
62.5°	2173.3	2287.9	2554.8	3260.6	4527.2	6750.2	10546.8	13388.0	15687.8	15605.7	11684.8
65°	1323.9	1336.9	1483.8	2024.2	3098.4	5226.4	9264.0	13006.5	16213.1	16188.2	11895.6
67.5°	855.9	876.5	943.5	1212.6	1857.8	3630.2	7407.3	11747.5	15906.1	15897.5	11460.0
70°	723.0	729.5	759.8	818.1	1079.6	2201.4	5201.5	9740.6	14740.0	14740.0	10412.8
72.5°	646.3	654.9	665.7	684.1	770.6	1247.2	3103.8	7582.4	12726.6	12810.9	8863.0
75°	586.8	584.7	591.2	594.4	657.1	814.9	1604.9	5607.9	9845.4	9676.8	6418.4
77.5°	502.5	505.8	502.5	516.6	580.4	620.3	814.9	3763.1	5966.7	5748.4	3221.6
80°	412.8	418.2	423.6	432.3	496.1	471.2	489.6	1715.1	2206.8	2160.4	995.3
82.5°	310.2	317.7	326.4	346.9	390.1	311.2	309.1	732.7	796.5	729.5	366.4
85°	125.4	148.1	223.7	244.2	245.3	170.8	190.2	305.8	325.3	317.7	143.7
87.5°	29.2	34.6	72.4	109.2	100.5	63.8	70.2	99.4	113.5	104.8	48.6
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°	1851.3	1851.3	1851.3	1851.3	1851.3	1851.3	1851.3	1851.3	1851.3	1851.3	1851.3
2.5°	1888.0	1850.2	1785.4	1735.6	1700.0	1668.6	1649.2	1637.3	1633.0	1631.9	1633.0
5°	1951.8	1884.8	1782.1	1717.3	1681.6	1661.1	1649.2	1648.1	1649.2	1650.3	1647.0
7.5°	2039.3	1943.1	1809.1	1748.6	1721.6	1706.5	1701.1	1698.9	1700.0	1698.9	1698.9
10°	2156.0	2024.2	1862.1	1799.4	1776.7	1759.4	1750.8	1745.4	1741.1	1736.7	1734.6
12.5°	2284.7	2113.9	1919.4	1858.8	1826.4	1799.4	1780.0	1765.9	1756.2	1746.5	1744.3
15°	2428.4	2209.0	1983.1	1898.8	1852.4	1812.4	1778.9	1756.2	1738.9	1724.8	1723.8
17.5°	2565.6	2298.7	2026.4	1917.2	1849.1	1792.9	1748.6	1717.3	1695.7	1677.3	1675.1
20°	2712.6	2384.1	2045.8	1905.3	1816.7	1748.6	1690.3	1652.4	1627.6	1607.0	1603.8
22.5°	2860.7	2456.5	2043.7	1867.5	1760.5	1680.5	1618.9	1578.9	1549.8	1529.2	1521.7
25°	3002.3	2514.9	2016.6	1807.0	1682.7	1599.5	1536.8	1500.0	1474.1	1449.3	1449.3
27.5°	3129.8	2549.4	1965.8	1733.5	1602.7	1515.2	1465.5	1432.0	1408.2	1392.0	1382.2
30°	3255.1	2565.6	1896.7	1640.5	1518.4	1443.9	1403.9	1384.4	1362.8	1344.4	1342.3
32.5°	3367.5	2562.4	1810.2	1549.8	1438.4	1385.5	1369.3	1354.2	1331.5	1305.5	1299.0
35°	3476.7	2540.8	1707.5	1450.3	1371.4	1350.9	1355.2	1333.6	1292.5	1260.1	1254.7
37.5°	3595.6	2501.9	1595.2	1369.3	1315.2	1334.7	1345.5	1298.0	1230.9	1180.2	1168.3
40°	3732.8	2457.6	1478.4	1288.2	1270.9	1319.6	1319.6	1232.0	1140.2	1108.8	1100.2
42.5°	3893.9	2420.8	1381.2	1220.1	1234.2	1282.8	1277.4	1144.5	1106.7	1090.5	1086.1
45°	4148.9	2407.9	1280.7	1160.7	1203.9	1239.6	1195.3	1114.2	1092.6	1079.6	1075.3
47.5°	4552.0	2423.0	1192.0	1116.4	1169.3	1196.4	1103.4	1093.7	1078.6	1060.2	1058.0
50°	4926.0	2408.9	1129.4	1091.5	1139.1	1144.5	1065.6	1068.8	1060.2	1039.7	1035.3
52.5°	5231.8	2364.6	1089.4	1078.6	1113.1	1053.7	1029.9	1041.8	1038.6	1012.6	1008.3
55°	5567.9	2337.6	1069.9	1078.6	1095.9	974.8	996.4	1013.7	1009.4	991.0	989.9
57.5°	5975.3	2343.0	1055.9	1081.8	1078.6	934.8	962.9	983.5	982.4	977.0	977.0
60°	6392.5	2345.2	1034.3	1080.7	1058.0	903.5	928.3	957.5	959.7	962.9	962.9
62.5°	6530.8	2251.2	992.1	1061.3	1012.6	873.2	895.9	935.9	933.7	942.4	943.5
65°	6272.5	1990.7	929.4	1017.0	954.3	851.6	871.1	907.8	895.9	918.6	922.9
67.5°	5709.5	1647.0	832.2	937.0	889.4	828.9	854.9	868.9	847.3	891.6	892.7
70°	4934.6	1286.1	709.0	823.5	815.9	805.1	841.9	820.3	790.0	844.0	833.2
72.5°	4126.2	982.4	566.3	673.3	717.6	769.5	819.2	757.6	715.4	731.7	712.2
75°	3099.5	726.2	455.0	527.4	597.6	718.7	798.7	681.9	617.1	602.0	597.6
77.5°	1580.0	474.4	340.4	394.5	448.5	649.5	770.6	593.3	511.2	487.4	476.6
80°	564.1	295.0	239.9	272.3	302.6	558.7	673.3	490.6	396.6	392.3	396.6
82.5°	261.5	190.2	161.0	178.3	179.4	372.9	513.3	366.4	301.5	458.2	386.9
85°	112.4	95.1	90.8	88.6	82.1	166.4	288.6	196.7	306.9	137.3	126.4
87.5°	33.5	37.8	33.5	24.9	18.4	18.4	29.2	10.8	7.6	5.4	5.4
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)