

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: P232783

Luminaire Tested: **CTN-6-3-D-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: CTN-6-3-D-E1-T2-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(6) 70 CRI, 3000K LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30283 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

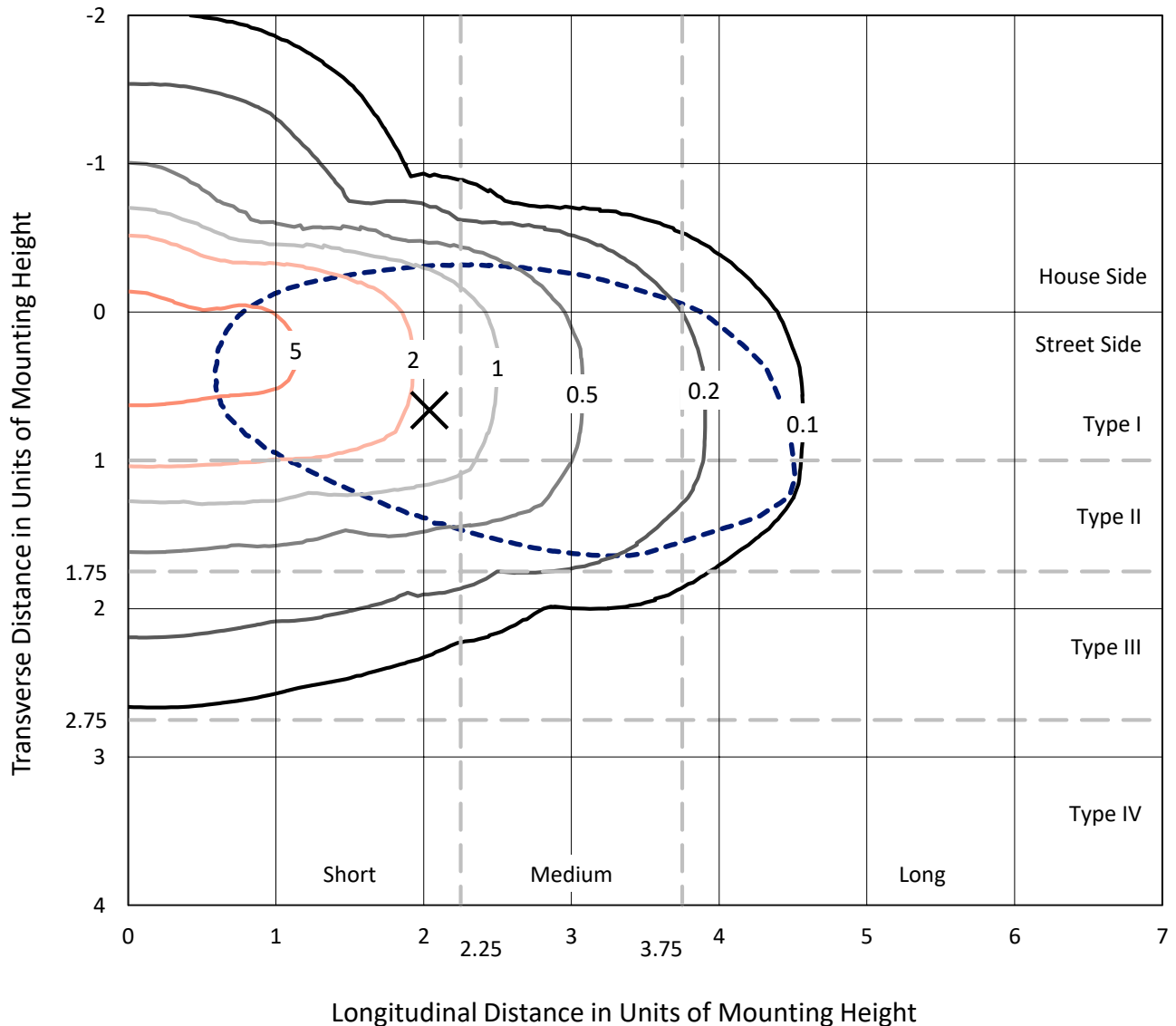
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

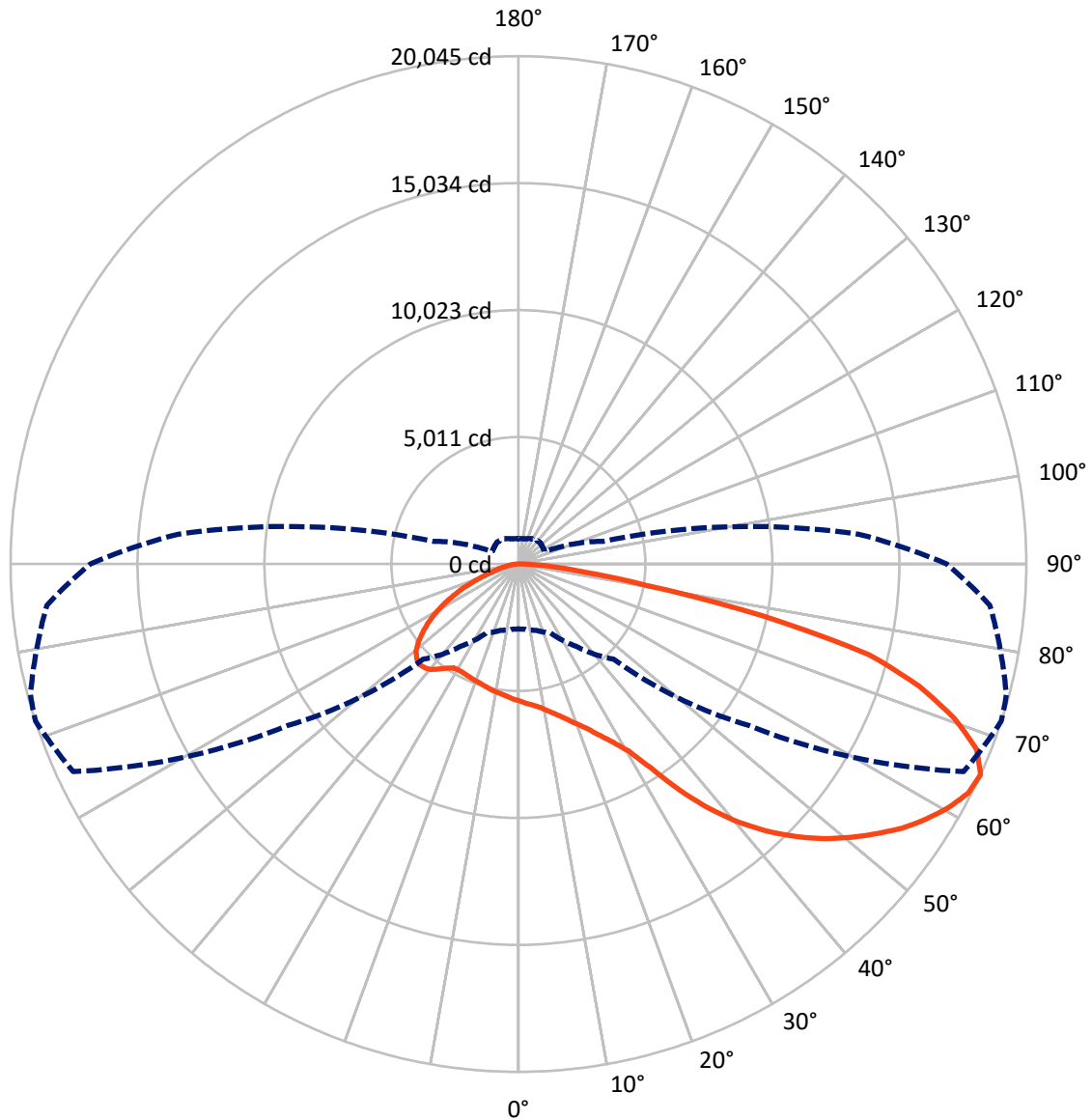
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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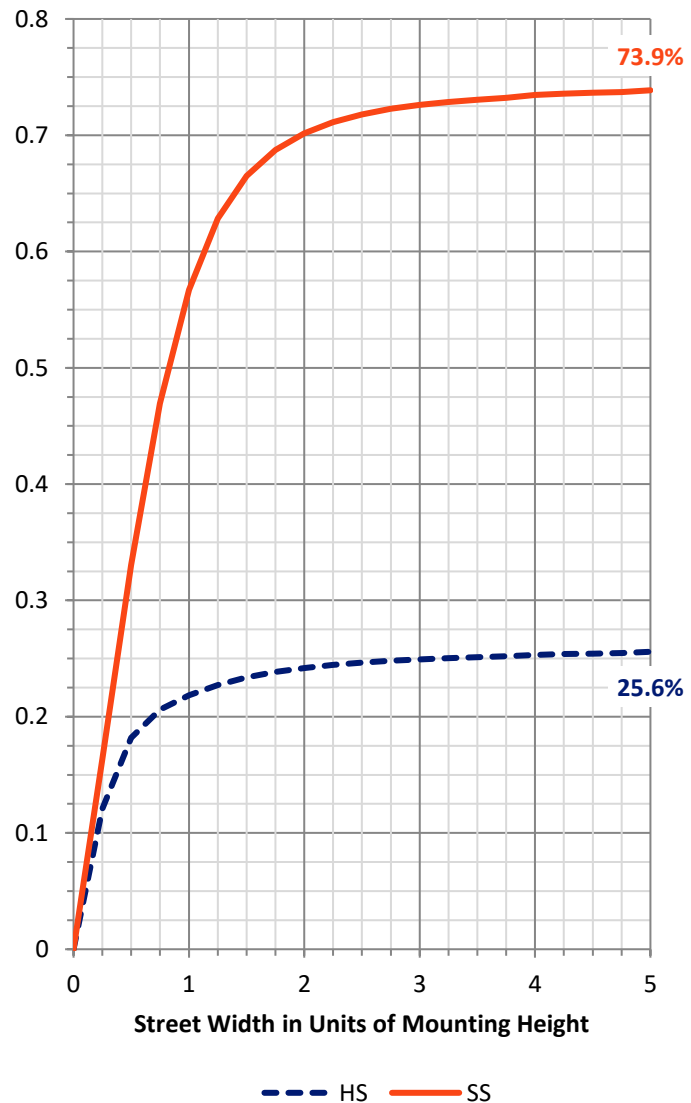
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7888.5	0.0	7888.5
	% Fixture	26.0	0.0	26.0
Street Side	Lumens	22394.6	0.0	22394.6
	% Fixture	74.0	0.0	74.0
Total	Lumens	30283.0	0.0	30283.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.7	1.7
10°-20°	1584.2	5.2
20°-30°	2653.6	8.8
30°-40°	3851.6	12.7
40°-50°	5208.2	17.2
50°-60°	6079.4	20.1
60°-70°	6053.1	20.0
70°-80°	3670.5	12.1
80°-90°	662.6	2.2
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°	30283.0	100.0
0°-180°	30283.0	100.0



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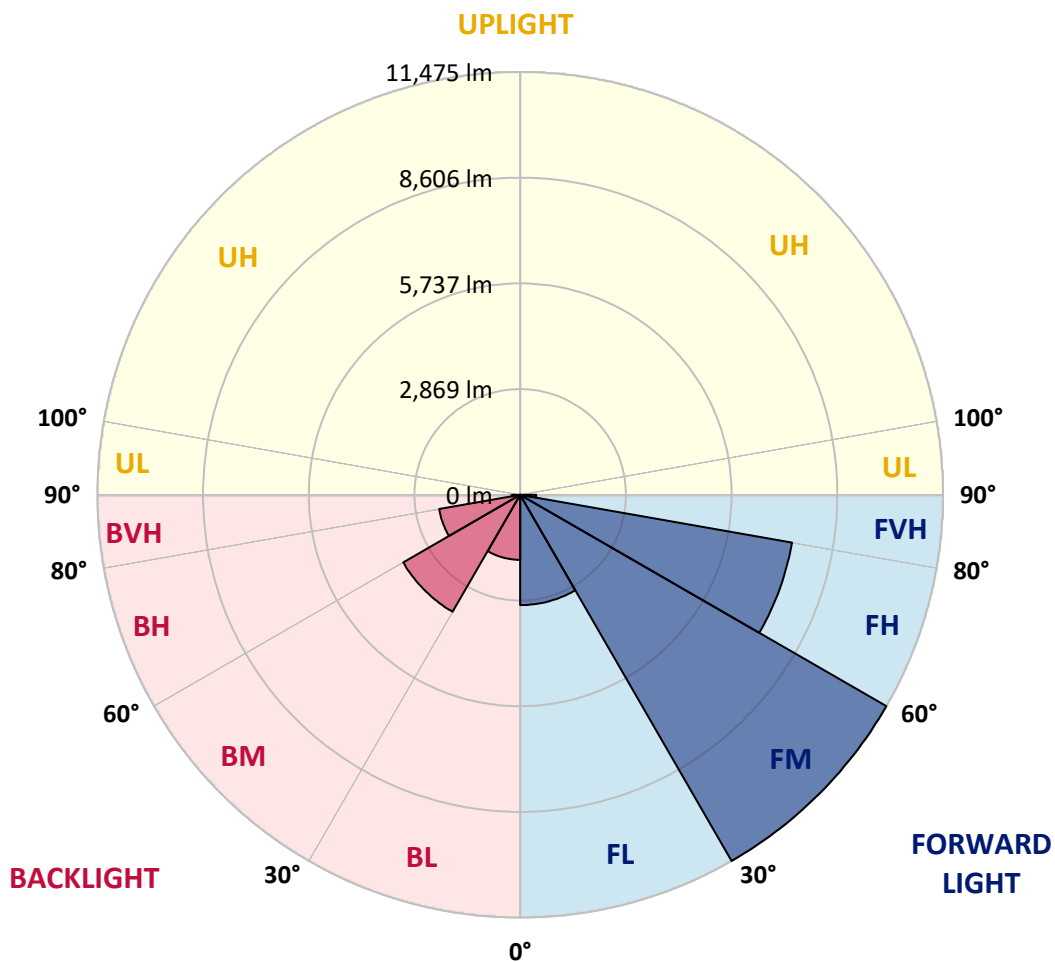
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2993.0	9.9			
FM	(30°-60°)	11474.9	37.9			
FH	(60°-80°)	7490.8	24.7			G3/7500
FVH	(80°-90°)	435.9	1.4			G3/500
BL	(0°-30°)	1764.5	5.8	B3/2500		
BM	(30°-60°)	3664.4	12.1	B3/5000		
BH	(60°-80°)	2232.9	7.4	B3/2500		G3/2500
BVH	(80°-90°)	226.7	0.7			G3/500
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3
2.5°	5686.5	5675.7	5679.3	5684.5	5620.0	5609.2	5555.7	5528.5	5498.7	5477.7	5430.5
5°	5979.2	5978.2	5954.9	5955.3	5854.0	5815.0	5716.3	5643.6	5580.3	5547.5	5449.2
7.5°	6244.7	6217.1	6214.8	6208.3	6093.9	6031.6	5900.9	5790.4	5693.7	5643.2	5490.8
10°	6494.1	6474.8	6475.1	6467.2	6349.9	6272.2	6114.9	5975.9	5846.8	5781.6	5559.7
12.5°	6760.2	6738.3	6734.7	6707.1	6599.3	6524.6	6352.5	6181.7	6025.4	5951.7	5663.9
15°	7033.2	7012.3	7001.8	6970.0	6849.7	6770.1	6625.8	6414.8	6236.8	6145.0	5800.9
17.5°	7285.0	7272.2	7254.5	7229.9	7124.7	7037.5	6893.3	6692.7	6480.0	6362.7	5958.5
20°	7440.3	7429.2	7441.0	7441.0	7380.3	7317.1	7171.9	6999.8	6770.1	6624.9	6139.8
22.5°	7559.3	7547.8	7600.3	7626.8	7633.0	7618.9	7476.4	7326.3	7087.0	6937.2	6364.0
25°	7588.5	7589.8	7678.6	7797.9	7886.4	7927.7	7817.9	7707.4	7500.9	7313.5	6670.4
27.5°	7579.9	7588.5	7702.2	7915.2	8127.3	8227.6	8187.9	8123.7	7960.1	7800.5	7079.8
30°	7567.5	7589.8	7739.9	8001.8	8308.5	8507.2	8546.8	8644.2	8563.9	8455.0	7729.1
32.5°	7412.8	7432.8	7647.8	8033.9	8462.9	8823.4	9036.8	9449.4	9580.2	9558.9	8734.0
35°	7050.6	7089.9	7408.9	7949.6	8581.9	9145.6	9652.0	10515.9	10968.6	10932.2	9893.2
37.5°	6681.6	6729.7	7112.2	7792.6	8635.6	9488.4	10325.2	11708.3	12255.3	12202.2	11007.2
40°	6346.9	6402.3	6788.4	7557.3	8621.2	9809.0	11032.5	12828.9	13401.2	13306.8	12000.7
42.5°	5960.2	6040.5	6392.2	7243.7	8508.8	10034.8	11732.2	13899.7	14417.8	14273.6	12904.6
45°	5600.0	5664.6	6002.5	6814.0	8337.4	10201.0	12372.3	14891.8	15342.4	15174.3	13737.4
47.5°	5209.6	5291.6	5631.1	6371.8	7996.8	10238.3	12958.4	15773.1	16197.2	16022.2	14514.2
50°	4179.8	4311.9	5078.9	5939.2	7468.2	10102.7	13478.8	16599.7	16965.5	16827.2	15317.9
52.5°	3644.3	3670.2	4058.2	5442.7	6824.5	9747.7	13854.4	17410.6	17687.8	17546.9	16029.1
55°	3404.7	3411.9	3585.6	4606.6	6200.1	9071.5	14036.3	18187.0	18395.5	18200.1	16702.3
57.5°	3158.6	3198.9	3373.6	3887.5	5613.1	8095.8	13910.2	18866.1	18990.3	18770.4	17320.4
60°	2955.0	2987.8	3162.2	3511.2	4969.1	6961.5	13322.2	19407.2	19516.7	19292.2	17900.5
62.5°	2770.5	2794.4	2929.5	3256.6	4387.3	5955.6	12224.8	19552.1	19919.5	19740.9	18436.7
65°	2561.1	2583.0	2708.2	2999.9	3961.5	5311.9	11121.0	19389.2	20045.0	19936.9	18678.0
67.5°	2312.3	2341.8	2454.9	2706.3	3523.0	4757.7	9817.8	18975.9	19509.5	19343.3	18157.8
70°	1985.5	2033.7	2161.9	2379.8	3010.7	4043.5	7832.0	17617.4	18251.2	18061.5	16768.8
72.5°	1565.3	1575.8	1668.6	1849.8	2384.4	3216.6	5285.7	14907.2	16562.7	16508.9	14833.4
75°	1167.1	1202.9	1351.7	1491.3	1742.0	2307.7	3213.0	10865.0	14299.5	14299.5	12501.1
77.5°	952.4	971.1	1070.1	1187.4	1358.5	1619.4	2042.6	6139.1	9856.2	10855.8	9396.3
80°	744.3	737.8	744.7	797.4	959.0	1070.8	1357.9	3155.3	5092.0	5788.1	6155.2
82.5°	407.7	408.1	452.6	426.7	529.0	601.8	823.6	1774.8	2660.7	2954.4	3297.5
85°	206.5	201.6	224.5	209.4	244.8	274.7	374.0	881.7	1357.9	1471.9	1553.9
87.5°	73.7	70.1	80.6	96.7	90.5	96.0	129.1	316.9	524.7	561.4	550.3
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°	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3
2.5°	5417.1	5385.6	5347.6	5315.8	5248.6	5213.6	5185.7	5193.6	5163.4	5119.8	5119.2
5°	5413.5	5353.5	5271.9	5204.4	5096.2	5040.5	4988.1	4974.3	4929.4	4886.1	4883.8
7.5°	5425.9	5346.3	5213.9	5106.1	4965.1	4878.3	4797.0	4765.2	4712.4	4666.9	4664.6
10°	5460.4	5355.2	5173.9	5024.4	4848.1	4729.1	4623.9	4560.0	4499.1	4452.2	4451.5
12.5°	5522.0	5381.4	5138.8	4943.8	4734.4	4576.7	4442.4	4359.8	4274.6	4239.8	4237.8
15°	5608.8	5419.7	5093.3	4836.6	4594.4	4414.8	4248.7	4139.5	4045.1	4011.7	4018.9
17.5°	5720.3	5482.3	5056.6	4718.3	4440.1	4223.4	4050.7	3940.9	3801.9	3771.1	3779.6
20°	5858.6	5579.0	5048.7	4610.2	4270.9	4013.0	3800.9	3723.3	3547.3	3506.0	3500.4
22.5°	6037.5	5693.1	5045.4	4494.5	4072.7	3771.1	3519.7	3421.1	3273.3	3203.8	3188.1
25°	6259.1	5825.1	5039.9	4378.8	3851.8	3495.5	3189.7	3051.1	2958.6	2853.4	2851.1
27.5°	6550.8	6002.5	5053.0	4264.1	3610.9	3174.0	2835.4	2667.3	2614.2	2546.0	2510.6
30°	7053.6	6318.4	5088.7	4125.4	3347.3	2803.9	2447.3	2319.8	2254.6	2185.5	2173.7
32.5°	7897.5	7002.1	5199.1	3975.3	3054.0	2403.7	2129.7	1996.3	1888.2	1852.5	1843.0
35°	8954.5	7814.0	5483.0	3814.7	2736.7	2086.8	1868.2	1692.2	1588.9	1580.4	1579.8
37.5°	9904.0	8679.9	5853.0	3616.8	2387.0	1860.7	1608.6	1456.9	1379.2	1387.0	1407.7
40°	10822.4	9448.1	6245.3	3419.4	2047.5	1621.4	1356.6	1283.8	1249.1	1277.3	1291.0
42.5°	11685.0	10149.8	6527.9	3151.7	1753.5	1364.4	1182.9	1225.8	1238.2	1261.5	1271.0
45°	12491.3	10868.9	6737.9	2829.2	1489.0	1183.2	1158.0	1232.0	1267.4	1285.4	1284.5
47.5°	13271.4	11556.2	6800.9	2402.8	1284.5	1163.2	1180.9	1223.2	1278.6	1311.7	1309.4
50°	14049.8	12181.6	6748.1	1969.5	1243.2	1201.9	1202.9	1196.0	1260.5	1287.4	1277.3
52.5°	14747.6	12765.6	6449.8	1648.3	1270.7	1242.5	1228.7	1194.0	1212.4	1231.0	1221.9
55°	15374.9	13253.0	5982.1	1490.0	1294.3	1268.7	1287.1	1219.6	1183.2	1167.5	1170.4
57.5°	15958.6	13628.9	5444.6	1391.6	1289.4	1262.5	1310.4	1212.7	1159.6	1093.4	1080.6
60°	16512.2	13875.7	4839.3	1306.8	1266.1	1253.3	1259.9	1213.0	1137.6	1051.8	1030.8
62.5°	16903.5	13888.9	4144.4	1231.0	1221.2	1239.2	1220.2	1203.5	1143.5	1078.3	1065.2
65°	16895.7	13480.8	3457.1	1144.2	1165.2	1201.5	1168.8	1113.4	1022.6	1003.3	996.7
67.5°	16162.5	12448.0	2790.5	1015.4	1074.4	1150.7	1095.0	1004.9	926.6	903.6	907.9
70°	14568.3	10987.9	2060.9	823.0	938.0	1064.2	1029.5	929.2	843.3	825.3	844.6
72.5°	12678.8	9439.0	1465.1	652.6	779.1	941.6	927.9	841.3	766.0	773.5	790.9
75°	10585.1	7513.7	1074.7	561.4	611.6	802.7	837.4	782.0	734.2	758.1	757.4
77.5°	7889.0	5548.9	818.4	471.0	506.4	624.7	738.1	717.1	847.6	1030.1	1036.0
80°	5184.1	3602.7	552.3	386.7	414.3	468.7	602.4	690.9	867.9	752.2	743.0
82.5°	2872.4	1912.1	342.5	300.9	311.0	339.9	436.6	721.4	637.5	591.6	593.9
85°	1273.6	740.4	202.2	201.9	202.6	206.2	280.2	547.0	448.4	434.3	441.5
87.5°	441.2	195.0	63.6	50.5	57.0	71.5	145.8	333.7	234.0	194.0	194.7
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)