

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: P232799

Luminaire Tested: **CTN-6-3-D-E1-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232799
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-T2-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31436 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

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

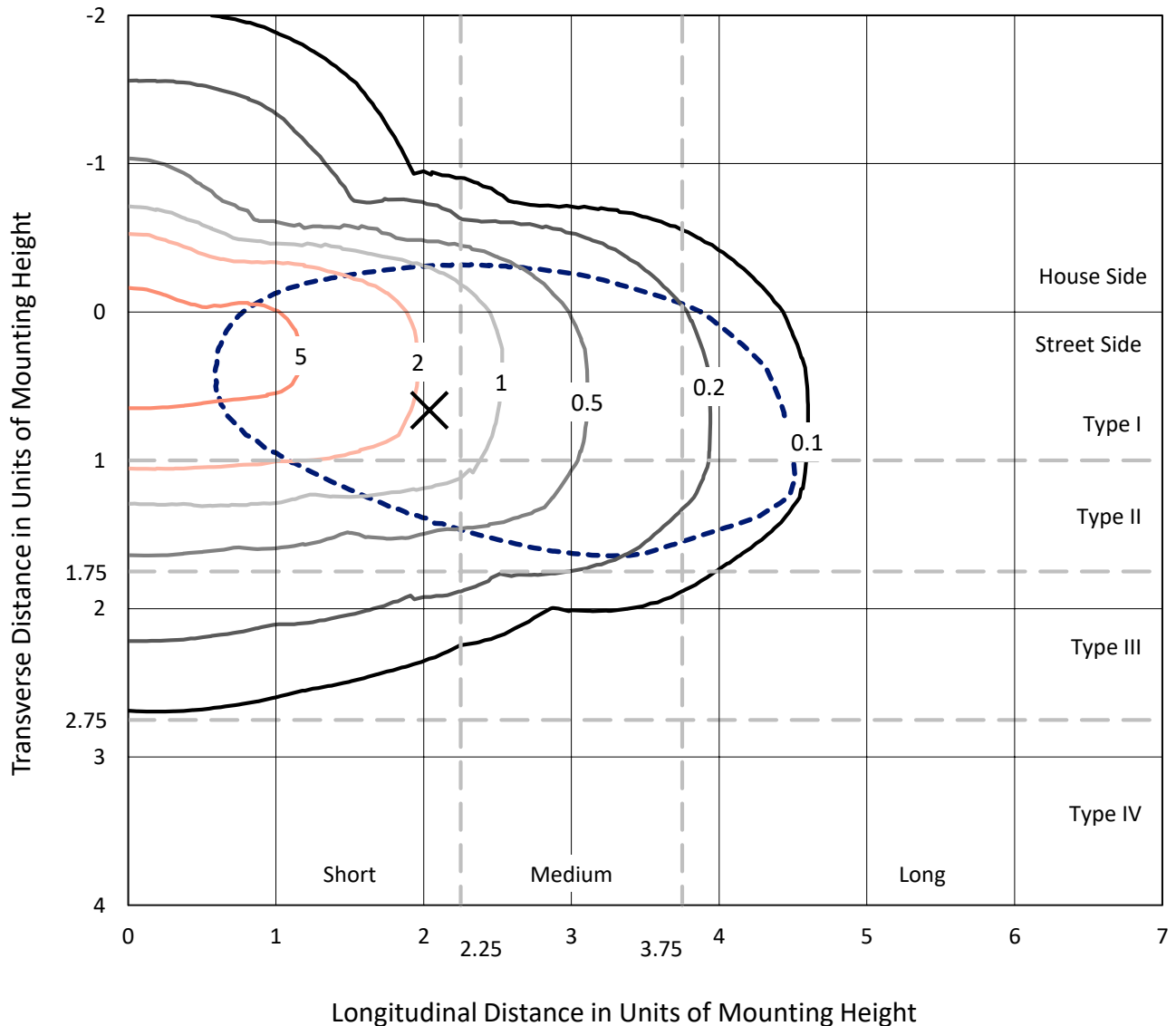


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

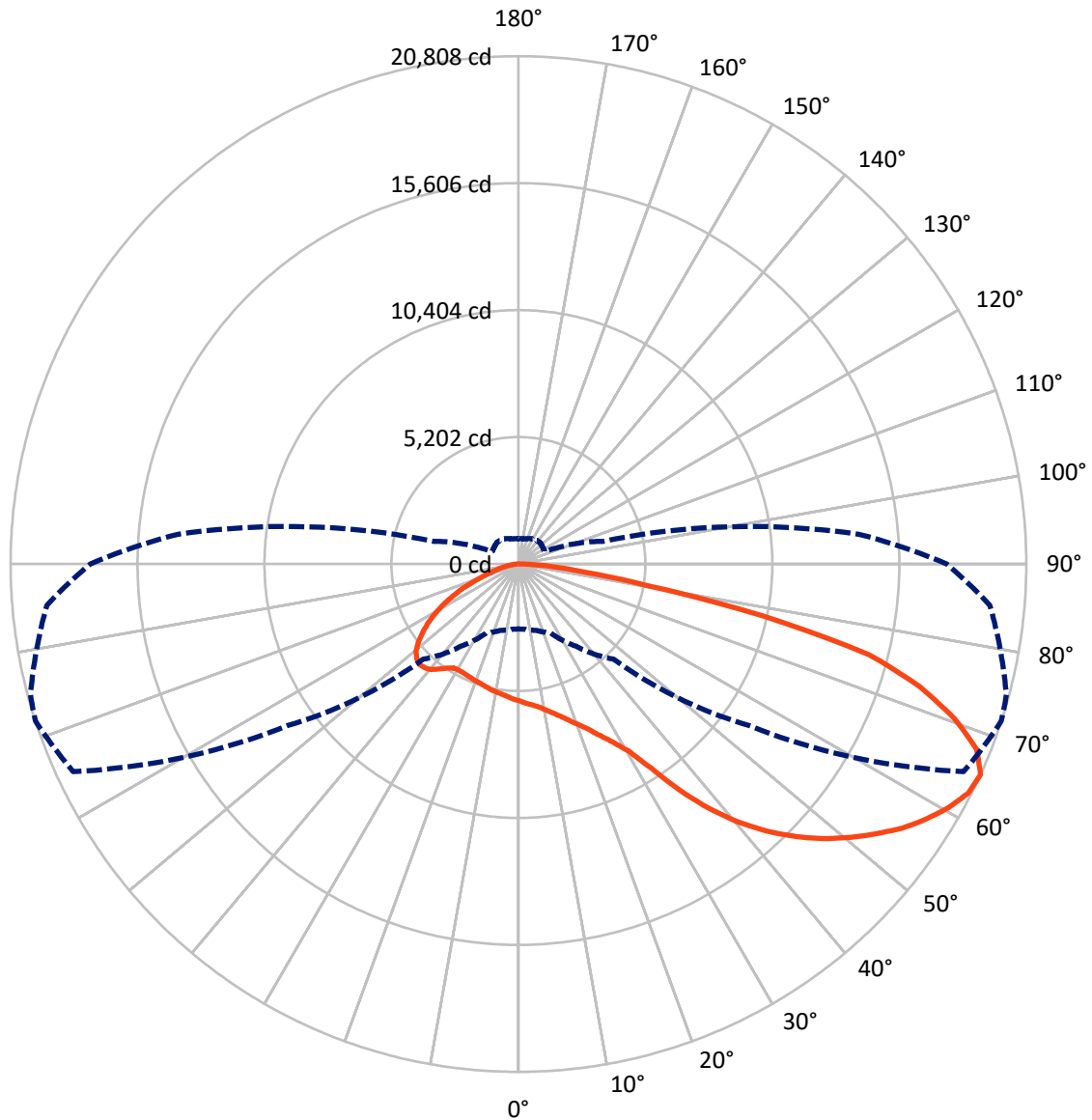


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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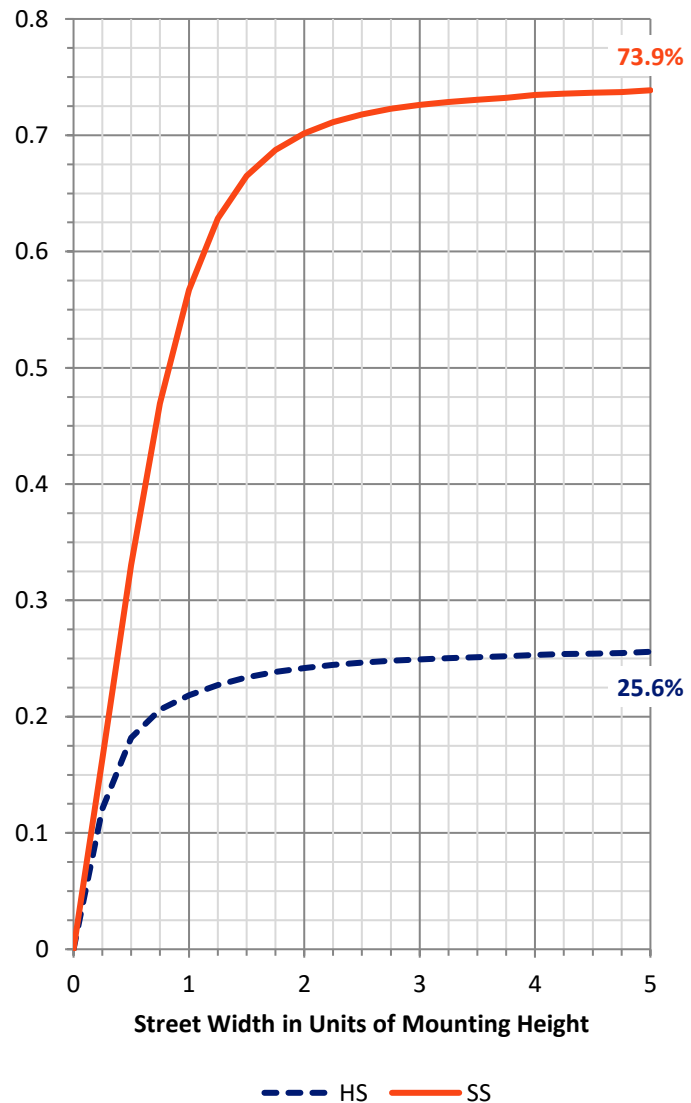
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8188.8	0.0	8188.8
	% Fixture	26.0	0.0	26.0
Street Side	Lumens	23247.2	0.0	23247.2
	% Fixture	74.0	0.0	74.0
Total	Lumens	31436.0	0.0	31436.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.5	1.7
10°-20°	1644.5	5.2
20°-30°	2754.6	8.8
30°-40°	3998.3	12.7
40°-50°	5406.5	17.2
50°-60°	6310.9	20.1
60°-70°	6283.6	20.0
70°-80°	3810.3	12.1
80°-90°	687.8	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°	31436.0	100.0
0°-180°	31436.0	100.0



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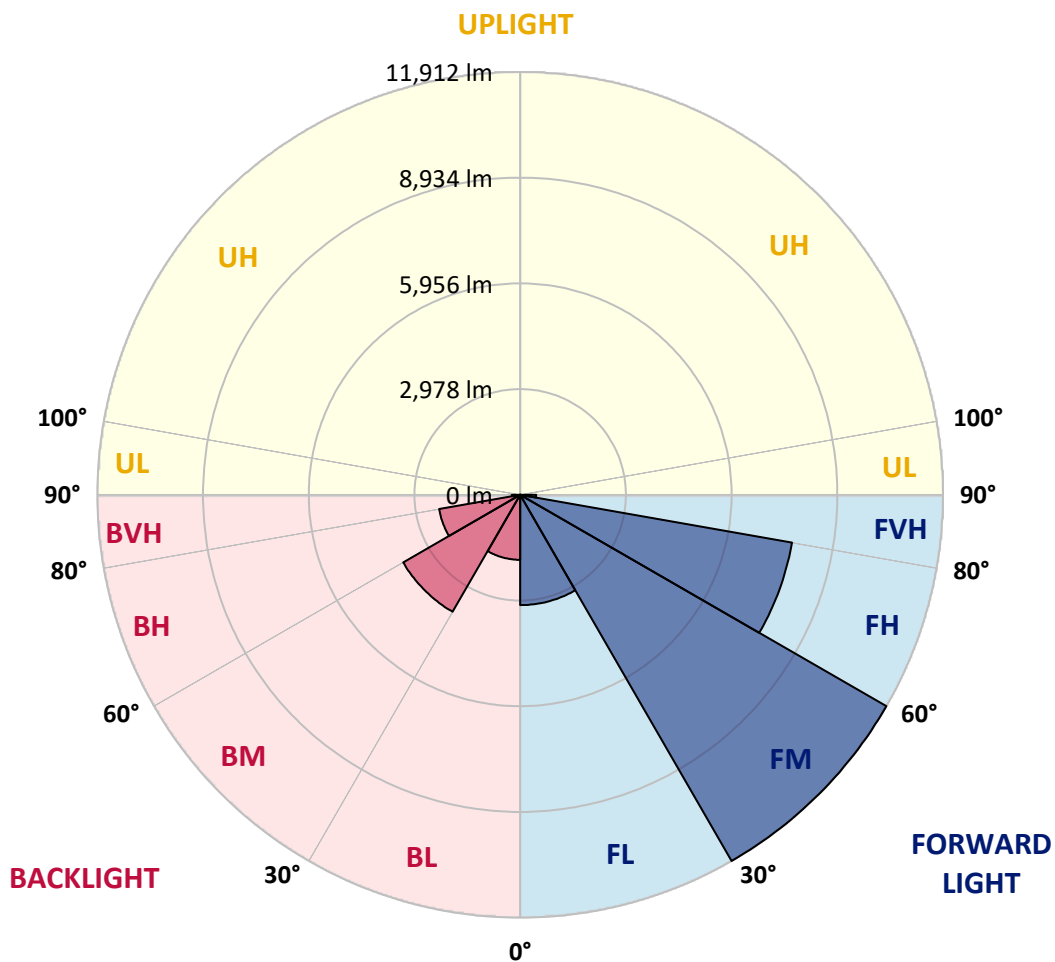
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3107.0	9.9			
FM (30°-60°)	11911.8	37.9			
FH (60°-80°)	7776.0	24.7			G4/12000
FVH (80°-90°)	452.4	1.4			G3/500
BL (0°-30°)	1831.6	5.8	B3/2500		
BM (30°-60°)	3803.9	12.1	B3/5000		
BH (60°-80°)	2317.9	7.4	B3/2500		G3/2500
BVH (80°-90°)	235.4	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5611.1	5611.1	5611.1	5611.1	5611.1	5611.1	5611.1	5611.1	5611.1	5611.1	5611.1
2.5°	5903.0	5891.8	5895.5	5901.0	5834.0	5822.7	5767.3	5739.0	5708.1	5686.3	5637.3
5°	6206.8	6205.8	6181.7	6182.0	6076.9	6036.4	5934.0	5858.4	5792.8	5758.8	5656.7
7.5°	6482.4	6453.9	6451.5	6444.7	6325.9	6261.3	6125.5	6010.9	5910.5	5858.1	5699.9
10°	6741.4	6721.3	6721.6	6713.5	6591.6	6511.0	6347.7	6203.4	6069.4	6001.7	5771.3
12.5°	7017.6	6994.8	6991.1	6962.5	6850.6	6773.0	6594.4	6417.1	6254.8	6178.3	5879.5
15°	7301.0	7279.3	7268.4	7235.4	7110.5	7027.8	6878.1	6659.0	6474.3	6379.0	6021.8
17.5°	7562.3	7549.1	7530.7	7505.2	7396.0	7305.5	7155.8	6947.5	6726.7	6604.9	6185.4
20°	7723.6	7712.0	7724.3	7724.3	7661.3	7595.7	7444.9	7266.3	7027.8	6877.1	6373.6
22.5°	7847.1	7835.2	7889.6	7917.2	7923.7	7909.0	7761.0	7605.2	7356.8	7201.3	6606.3
25°	7877.4	7878.7	7970.9	8094.8	8186.7	8229.5	8115.5	8000.9	7786.5	7591.9	6924.4
27.5°	7868.5	7877.4	7995.4	8216.6	8436.7	8540.8	8499.7	8433.0	8263.2	8097.5	7349.3
30°	7855.6	7878.7	8034.6	8306.4	8624.9	8831.1	8872.2	8973.3	8889.9	8777.0	8023.3
32.5°	7695.0	7715.8	7939.0	8339.8	8785.1	9159.4	9380.9	9809.2	9945.0	9922.9	9066.5
35°	7319.1	7359.9	7690.9	8252.3	8908.6	9493.8	10019.5	10916.3	11386.2	11348.4	10269.9
37.5°	6936.0	6986.0	7383.0	8089.3	8964.4	9849.7	10718.3	12154.1	12721.9	12666.8	11426.3
40°	6588.6	6646.1	7046.9	7845.1	8949.5	10182.5	11452.5	13317.3	13911.4	13813.4	12457.6
42.5°	6187.1	6270.5	6635.5	7519.5	8832.8	10416.9	12178.9	14428.9	14966.8	14817.1	13395.9
45°	5813.2	5880.2	6231.0	7073.4	8654.8	10589.4	12843.4	15458.8	15926.6	15752.0	14260.5
47.5°	5408.0	5493.0	5845.5	6614.4	8301.3	10628.2	13451.7	16373.6	16813.9	16632.2	15066.8
50°	4339.0	4476.1	5272.2	6165.3	7752.5	10487.3	13992.0	17231.7	17611.4	17467.8	15901.1
52.5°	3783.0	3809.9	4212.7	5649.9	7084.3	10118.8	14381.9	18073.4	18361.3	18215.0	16639.4
55°	3534.3	3541.8	3722.1	4782.0	6436.2	9416.9	14570.8	18879.5	19095.8	18893.1	17338.2
57.5°	3278.8	3320.7	3502.0	4035.5	5826.8	8404.1	14439.8	19584.4	19713.4	19485.1	17979.9
60°	3067.5	3101.6	3282.6	3644.9	5158.3	7226.5	13829.4	20146.1	20259.8	20026.7	18582.1
62.5°	2876.0	2900.8	3041.0	3380.5	4554.3	6182.3	12690.3	20296.5	20677.9	20492.5	19138.7
65°	2658.6	2681.4	2811.3	3114.1	4112.4	5514.1	11544.4	20127.4	20808.2	20696.0	19389.1
67.5°	2400.3	2431.0	2548.3	2809.3	3657.2	4938.8	10191.6	19698.4	20252.3	20079.8	18849.2
70°	2061.1	2111.1	2244.2	2470.4	3125.4	4197.4	8130.2	18288.1	18946.1	18749.1	17407.3
72.5°	1624.9	1635.8	1732.1	1920.3	2475.2	3339.0	5486.9	15474.8	17193.3	17137.5	15398.2
75°	1211.6	1248.7	1403.1	1548.1	1808.3	2395.6	3335.3	11278.7	14844.0	14844.0	12977.1
77.5°	988.7	1008.1	1110.9	1232.7	1410.3	1681.1	2120.3	6372.9	10231.4	11269.2	9754.1
80°	772.7	765.9	773.0	827.8	995.5	1111.5	1409.6	3275.4	5285.8	6008.5	6389.6
82.5°	423.2	423.6	469.9	443.0	549.1	624.7	855.0	1842.4	2762.0	3066.8	3423.1
85°	214.3	209.2	233.1	217.4	254.2	285.1	388.2	915.2	1409.6	1528.0	1613.0
87.5°	76.6	72.8	83.7	100.4	93.9	99.7	134.1	329.0	544.7	582.8	571.2
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°	5611.1	5611.1	5611.1	5611.1	5611.1	5611.1	5611.1	5611.1	5611.1	5611.1	5611.1
2.5°	5623.3	5590.7	5551.2	5518.2	5448.5	5412.1	5383.1	5391.3	5360.0	5314.8	5314.1
5°	5619.6	5557.3	5472.6	5402.5	5290.3	5232.4	5178.0	5163.7	5117.1	5072.2	5069.8
7.5°	5632.5	5549.9	5412.4	5300.5	5154.2	5064.0	4979.6	4946.6	4891.9	4844.6	4842.2
10°	5668.3	5559.0	5370.9	5215.8	5032.7	4909.2	4800.0	4733.6	4670.4	4621.7	4621.0
12.5°	5732.2	5586.3	5334.5	5132.1	4914.6	4751.0	4611.5	4525.8	4437.3	4401.2	4399.2
15°	5822.4	5626.1	5287.2	5020.8	4769.4	4582.9	4410.4	4297.1	4199.1	4164.4	4171.9
17.5°	5938.1	5691.1	5249.1	4898.0	4609.1	4384.2	4204.9	4090.9	3946.7	3914.7	3923.6
20°	6081.6	5791.4	5240.9	4785.7	4433.6	4165.8	3945.7	3865.0	3682.3	3639.5	3633.7
22.5°	6267.4	5909.8	5237.5	4665.6	4227.7	3914.7	3653.7	3551.3	3397.9	3325.8	3309.4
25°	6497.4	6046.9	5231.7	4545.5	3998.4	3628.6	3311.1	3167.2	3071.3	2962.1	2959.7
27.5°	6800.2	6231.0	5245.4	4426.4	3748.3	3294.8	2943.3	2768.8	2713.7	2642.9	2606.2
30°	7322.1	6559.0	5282.4	4282.5	3474.8	2910.7	2540.5	2408.2	2340.5	2268.7	2256.4
32.5°	8198.2	7268.7	5397.1	4126.7	3170.3	2495.3	2210.8	2072.4	1960.1	1923.0	1913.1
35°	9295.5	8111.5	5691.7	3960.0	2840.9	2166.3	1939.3	1756.6	1649.4	1640.6	1639.9
37.5°	10281.1	9010.4	6075.9	3754.5	2477.9	1931.5	1669.9	1512.3	1431.7	1439.9	1461.3
40°	11234.4	9807.9	6483.1	3549.6	2125.4	1683.1	1408.2	1332.7	1296.6	1325.9	1340.2
42.5°	12129.9	10536.3	6776.4	3271.7	1820.2	1416.4	1227.9	1272.5	1285.4	1309.6	1319.4
45°	12966.9	11282.8	6994.5	2936.9	1545.7	1228.2	1202.0	1278.9	1315.7	1334.4	1333.4
47.5°	13776.7	11996.2	7059.8	2494.2	1333.4	1207.5	1225.9	1269.7	1327.2	1361.6	1359.2
50°	14584.7	12645.4	7005.0	2044.5	1290.5	1247.6	1248.7	1241.5	1308.5	1336.4	1325.9
52.5°	15309.1	13251.7	6695.4	1711.0	1319.1	1289.8	1275.5	1239.5	1258.5	1277.9	1268.4
55°	15960.3	13757.6	6209.9	1546.7	1343.6	1317.0	1336.1	1266.0	1228.2	1211.9	1215.0
57.5°	16566.2	14147.9	5651.9	1444.6	1338.5	1310.6	1360.2	1258.9	1203.7	1135.0	1121.7
60°	17140.9	14404.0	5023.5	1356.5	1314.3	1301.0	1307.9	1259.2	1180.9	1091.8	1070.0
62.5°	17547.1	14417.7	4302.2	1277.9	1267.7	1286.4	1266.7	1249.3	1187.1	1119.4	1105.8
65°	17538.9	13994.1	3588.8	1187.7	1209.5	1247.3	1213.3	1155.8	1061.5	1041.4	1034.6
67.5°	16777.8	12922.0	2896.7	1054.0	1115.3	1194.6	1136.7	1043.2	961.8	938.0	942.4
70°	15123.0	11406.3	2139.4	854.3	973.7	1104.7	1068.7	964.6	875.4	856.7	876.8
72.5°	13161.5	9798.3	1520.8	677.4	808.7	977.5	963.2	873.4	795.1	802.9	821.0
75°	10988.1	7799.8	1115.6	582.8	634.9	833.2	869.3	811.8	762.1	787.0	786.3
77.5°	8189.4	5760.1	849.6	488.9	525.7	648.5	766.2	744.4	879.8	1069.3	1075.5
80°	5381.4	3739.8	573.3	401.5	430.1	486.5	625.3	717.2	900.9	780.8	771.3
82.5°	2981.8	1984.9	355.5	312.3	322.9	352.8	453.2	748.8	661.8	614.1	616.5
85°	1322.1	768.6	209.9	209.6	210.3	214.0	290.9	567.8	465.4	450.8	458.3
87.5°	458.0	202.4	66.0	52.4	59.2	74.2	151.4	346.4	242.9	201.4	202.1
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)