

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: P510807

Luminaire Tested: **CTN-CA8-330-760-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA8-330-760-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48430 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

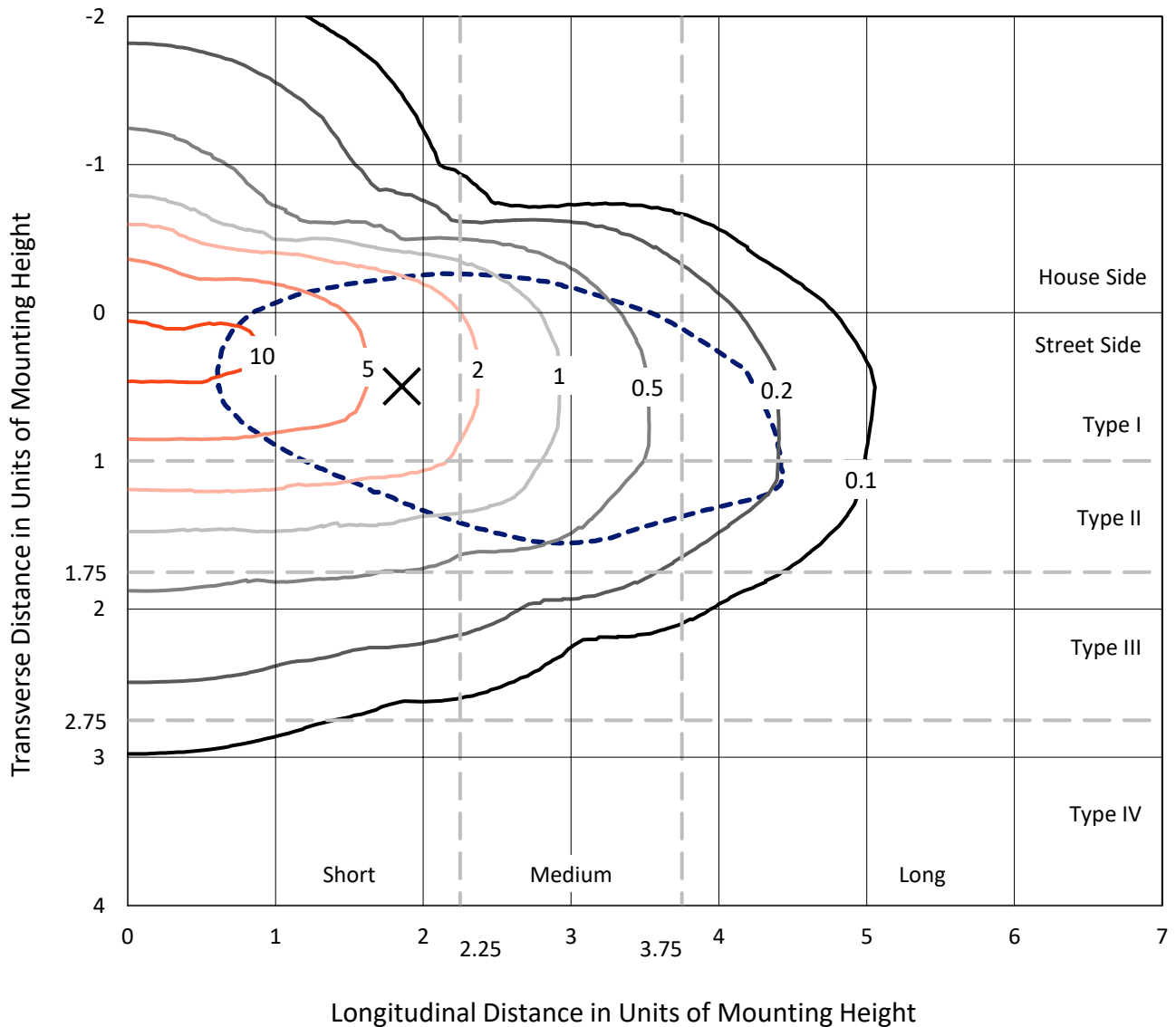
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

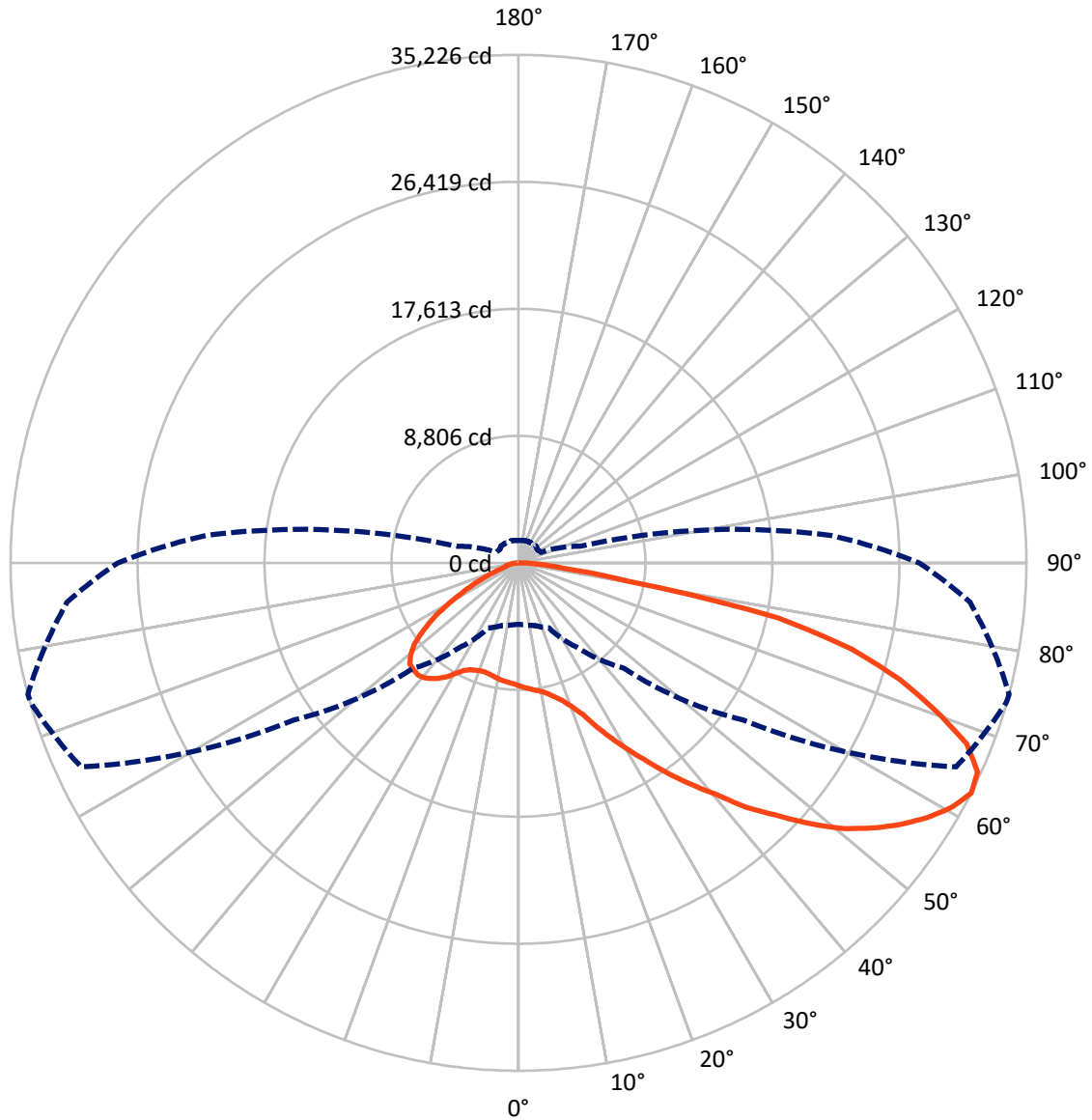
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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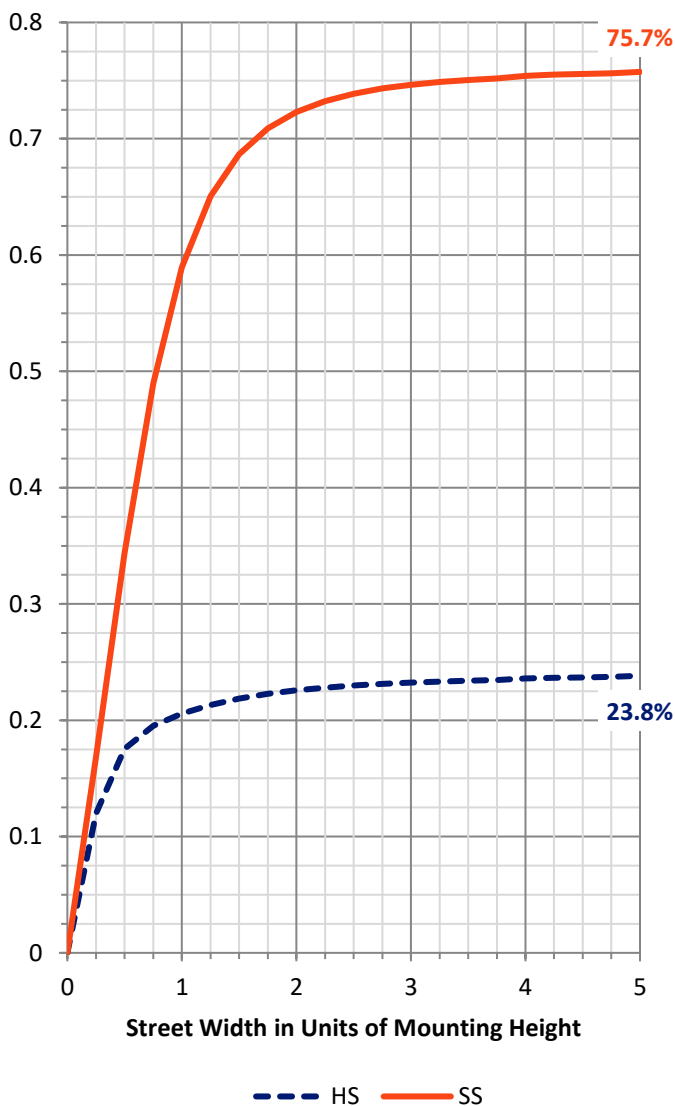
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11733.7	0.0	11733.7
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	36696.3	0.0	36696.3
	% Fixture	75.8	0.0	75.8
Total	Lumens	48430.0	0.0	48430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.3	1.7
10°-20°	2492.6	5.1
20°-30°	4299.1	8.9
30°-40°	6339.1	13.1
40°-50°	8356.3	17.3
50°-60°	9834.6	20.3
60°-70°	9784.4	20.2
70°-80°	5706.0	11.8
80°-90°	796.7	1.6
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°	48430.0	100.0
0°-180°	48430.0	100.0

Coefficient of Utilization

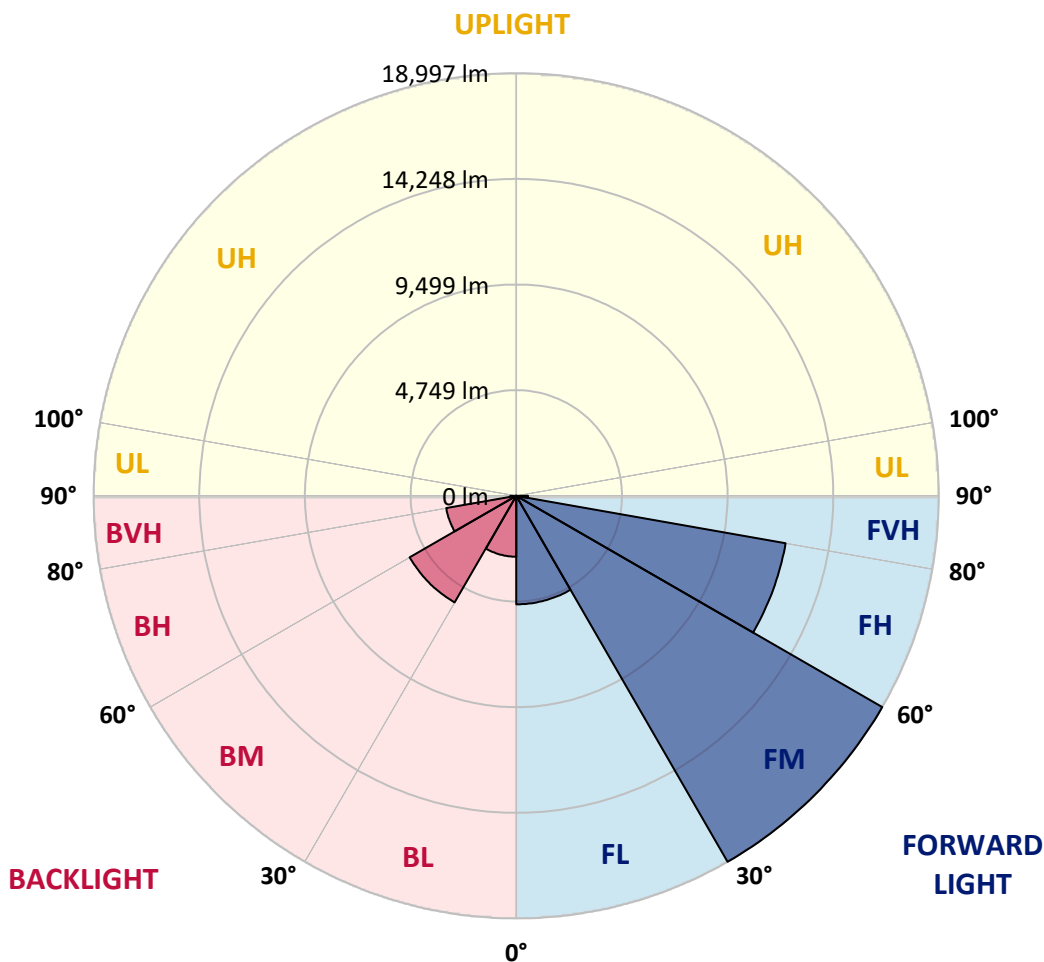


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4876.7	10.1			
FM (30°-60°)	18997.1	39.2			
FH (60°-80°)	12293.8	25.4			G5
FVH (80°-90°)	528.7	1.1			G4/750
BL (0°-30°)	2736.2	5.6	B4/5000		
BM (30°-60°)	5532.8	11.4	B4/8500		
BH (60°-80°)	3196.7	6.6	B4/5000		G4/5000
BVH (80°-90°)	268.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	8537.1	8537.1	8537.1	8537.1	8537.1	8537.1	8537.1	8537.1	8537.1	8537.1	8537.1
2.5°	9004.6	8967.7	8972.7	8946.8	8907.9	8879.0	8803.2	8721.5	8672.7	8668.7	8598.9
5°	9457.1	9469.1	9472.0	9389.3	9307.6	9214.9	9099.3	8941.8	8813.2	8793.3	8657.7
7.5°	9869.7	9868.8	9862.8	9816.9	9779.0	9641.5	9410.2	9163.1	8953.7	8934.8	8714.5
10°	10292.4	10289.4	10229.6	10152.8	10067.1	9940.5	9742.2	9446.1	9107.2	9082.3	8767.4
12.5°	10752.9	10720.0	10682.1	10589.4	10487.7	10268.4	10060.1	9738.2	9384.3	9339.5	8861.0
15°	11132.6	11098.7	11045.9	10983.1	10876.5	10709.0	10487.7	10106.0	9726.2	9682.4	9071.4
17.5°	11508.4	11492.4	11454.6	11387.8	11306.1	11161.5	10958.2	10634.3	10136.9	10083.1	9421.2
20°	11816.4	11778.5	11750.6	11781.5	11788.5	11681.8	11570.2	11298.1	10749.9	10667.1	9850.8
22.5°	11991.8	11983.8	12136.3	12250.0	12295.8	12319.7	12284.9	12065.6	11569.2	11424.7	10448.9
25°	12158.3	12145.3	12352.6	12636.7	12906.8	13044.4	13137.1	13166.0	12710.5	12579.9	11410.7
27.5°	12163.3	12199.1	12500.2	12976.6	13388.3	13807.9	14252.4	14303.3	13903.6	13799.9	12505.1
30°	12190.2	12206.1	12504.1	13051.4	13908.6	14581.4	15160.5	15446.5	15101.7	15053.8	13710.2
32.5°	11848.3	11869.2	12332.7	13181.9	14301.3	15381.7	16150.2	16574.8	16489.1	16428.3	14996.0
35°	11492.4	11510.4	12048.6	12996.5	14593.3	16108.4	17044.3	17878.6	18035.1	17989.2	16430.3
37.5°	10934.3	10994.1	11558.2	12775.3	14644.1	16642.6	17897.5	19177.3	19649.8	19512.2	17947.4
40°	10328.3	10372.1	11029.0	12311.8	14587.3	16993.5	18735.8	20614.6	21186.8	21113.0	19453.4
42.5°	9562.8	9680.4	10338.2	11719.7	14295.3	17211.8	19511.2	22244.3	23075.6	23174.3	20836.9
45°	8917.9	8914.9	9525.9	10862.5	13766.0	17263.6	20224.9	23891.9	25108.0	24922.6	22665.9
47.5°	8159.3	8190.2	8828.2	10009.3	12985.6	17099.1	20781.1	25839.6	27070.5	26969.9	24166.0
50°	6404.1	6626.3	7834.4	9275.7	11930.0	16640.6	21244.6	27736.4	28911.5	28957.4	25529.6
52.5°	5521.0	5606.7	6273.5	8537.1	10993.1	15871.1	21752.9	29870.4	30690.7	30574.1	27077.5
55°	5167.1	5213.0	5532.9	7210.4	10087.0	14680.0	21997.1	31819.0	32078.2	32059.2	28351.4
57.5°	4911.0	4945.8	5173.1	6017.3	9092.3	13151.0	21790.8	33086.9	33489.6	33366.0	29553.4
60°	4541.2	4569.1	4908.0	5422.3	8068.6	11607.1	20521.9	33662.0	34513.2	34467.4	30616.0
62.5°	4263.1	4310.9	4500.3	4982.7	7194.5	10335.2	19009.9	33482.6	35185.0	35225.9	31427.3
65°	3969.0	4011.9	4172.4	4594.0	6402.1	9499.0	17379.2	32583.5	34876.0	34984.7	31558.9
67.5°	3606.2	3639.1	3829.5	4194.3	5476.1	8662.7	15540.2	30993.7	33161.6	33511.5	30249.2
70°	3149.7	3161.7	3394.9	3643.1	4547.1	7401.8	12356.6	28391.2	30680.7	30687.7	27776.2
72.5°	2506.8	2516.8	2578.6	2767.0	3415.8	5857.9	9082.3	23722.5	27664.6	27613.8	24686.3
75°	1704.4	1792.1	2006.4	2185.9	2463.9	4113.6	5648.5	15982.8	23438.4	23837.1	20277.7
77.5°	1346.6	1354.6	1443.3	1607.7	1848.0	3073.0	3165.7	8843.1	17473.9	18421.8	15938.9
80°	938.9	952.9	905.0	944.9	1288.8	2103.1	1850.0	3848.4	7287.2	7780.6	9569.7
82.5°	447.5	463.5	532.3	494.4	640.9	894.1	976.8	1988.5	3147.7	3230.4	3725.8
85°	295.0	295.0	296.0	280.1	373.8	389.7	443.6	848.2	1537.0	1588.8	1579.8
87.5°	94.7	104.7	101.7	118.6	143.5	129.6	135.6	266.1	527.3	522.3	436.6
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°	8537.1	8537.1	8537.1	8537.1	8537.1	8537.1	8537.1	8537.1	8537.1	8537.1	8537.1
2.5°	8549.1	8508.2	8412.5	8328.8	8246.1	8183.3	8129.4	8057.7	8023.8	7992.9	8057.7
5°	8574.0	8501.2	8329.8	8158.3	8000.9	7885.2	7814.5	7762.6	7715.8	7715.8	7737.7
7.5°	8602.9	8504.2	8259.0	8015.8	7779.6	7648.0	7547.3	7481.6	7443.7	7445.7	7492.5
10°	8621.8	8470.3	8178.3	7850.3	7593.2	7381.9	7283.2	7188.5	7116.7	7073.9	7121.7
12.5°	8643.8	8459.4	8069.6	7699.8	7386.9	7147.6	6942.3	6871.5	6801.8	6747.9	6773.9
15°	8779.3	8501.2	7978.9	7508.5	7145.6	6847.6	6578.5	6448.9	6429.0	6392.1	6401.1
17.5°	9000.6	8613.9	7920.1	7274.2	6855.6	6503.7	6162.9	5995.4	5955.5	5936.6	5946.6
20°	9330.5	8828.2	7938.1	7109.8	6528.7	6135.0	5694.4	5498.0	5365.5	5373.4	5412.3
22.5°	9834.9	9174.0	8035.7	6929.4	6174.8	5658.5	5214.0	4946.8	4813.3	4784.4	4828.2
25°	10638.2	9731.2	8143.4	6756.9	5832.9	5144.2	4651.8	4362.7	4191.3	4180.3	4229.2
27.5°	11667.9	10585.4	8377.6	6607.4	5408.3	4526.2	4036.8	3789.6	3607.2	3585.3	3569.3
30°	12721.4	11534.3	8801.2	6380.2	4912.9	3888.3	3462.7	3269.3	3065.0	2982.3	3000.2
32.5°	13837.8	12418.4	9297.6	6220.7	4358.8	3327.1	2957.3	2772.9	2585.6	2465.9	2438.0
35°	14962.1	13297.5	9715.3	5982.5	3833.5	2881.6	2527.7	2337.4	2173.9	2076.2	2069.2
37.5°	16277.8	14212.6	10050.2	5729.3	3288.3	2532.7	2107.1	1997.5	1918.7	1833.0	1842.0
40°	17595.5	15279.1	10318.3	5310.6	2835.7	2157.9	1793.1	1815.1	1832.0	1760.2	1754.3
42.5°	18689.9	16175.1	10440.9	4768.4	2435.0	1832.0	1654.6	1754.3	1828.0	1781.2	1775.2
45°	19801.3	16929.7	10393.0	4095.6	2102.1	1676.5	1643.6	1745.3	1840.0	1829.0	1824.0
47.5°	21009.3	17918.4	10310.3	3329.1	1863.9	1661.6	1667.6	1715.4	1835.0	1854.9	1847.0
50°	22486.5	18828.5	9820.9	2592.5	1748.3	1685.5	1721.4	1696.5	1798.1	1839.0	1846.0
52.5°	23956.7	19529.2	9166.0	2246.7	1702.4	1708.4	1796.1	1711.4	1756.3	1792.1	1825.0
55°	25091.0	20242.9	8106.5	2038.3	1687.5	1719.4	1817.1	1743.3	1742.3	1742.3	1753.3
57.5°	26252.2	21198.7	7047.0	1903.8	1661.6	1731.3	1792.1	1749.3	1735.3	1715.4	1702.4
60°	27060.6	21552.6	5685.4	1815.1	1634.7	1714.4	1722.4	1716.4	1673.5	1654.6	1639.6
62.5°	27778.2	21744.9	4426.5	1713.4	1597.8	1674.5	1632.7	1619.7	1594.8	1548.9	1556.9
65°	27585.9	21332.3	3373.0	1598.8	1571.9	1626.7	1553.9	1523.0	1525.0	1477.2	1493.1
67.5°	26347.9	19481.3	2422.1	1423.3	1501.1	1532.0	1464.2	1441.3	1407.4	1383.5	1405.4
70°	23847.1	17269.6	1633.7	1181.1	1339.6	1406.4	1361.6	1321.7	1268.9	1252.9	1276.8
72.5°	20071.4	14415.9	1127.3	949.9	1156.2	1242.9	1226.0	1185.1	1147.3	1186.1	1233.0
75°	16489.1	10665.1	920.0	778.5	889.1	1035.6	1085.5	1097.4	1211.0	1589.8	1628.7
77.5°	11869.2	6611.4	827.3	632.9	709.7	828.3	928.0	968.8	1479.2	1416.4	1413.4
80°	6920.4	3853.4	630.9	499.4	574.1	607.0	725.6	1137.3	1275.8	1094.4	1067.5
82.5°	3157.7	1700.4	439.6	399.7	398.7	401.7	494.4	1094.4	978.8	862.2	830.3
85°	1161.2	598.0	267.1	231.2	265.1	230.2	323.9	802.4	567.1	558.2	465.5
87.5°	286.1	122.6	90.7	75.8	61.8	58.8	98.7	264.1	138.5	126.6	121.6
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)