

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: P510777

Luminaire Tested: **CTN-CA8-330-730-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510777
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-CA8-330-730-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47708 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

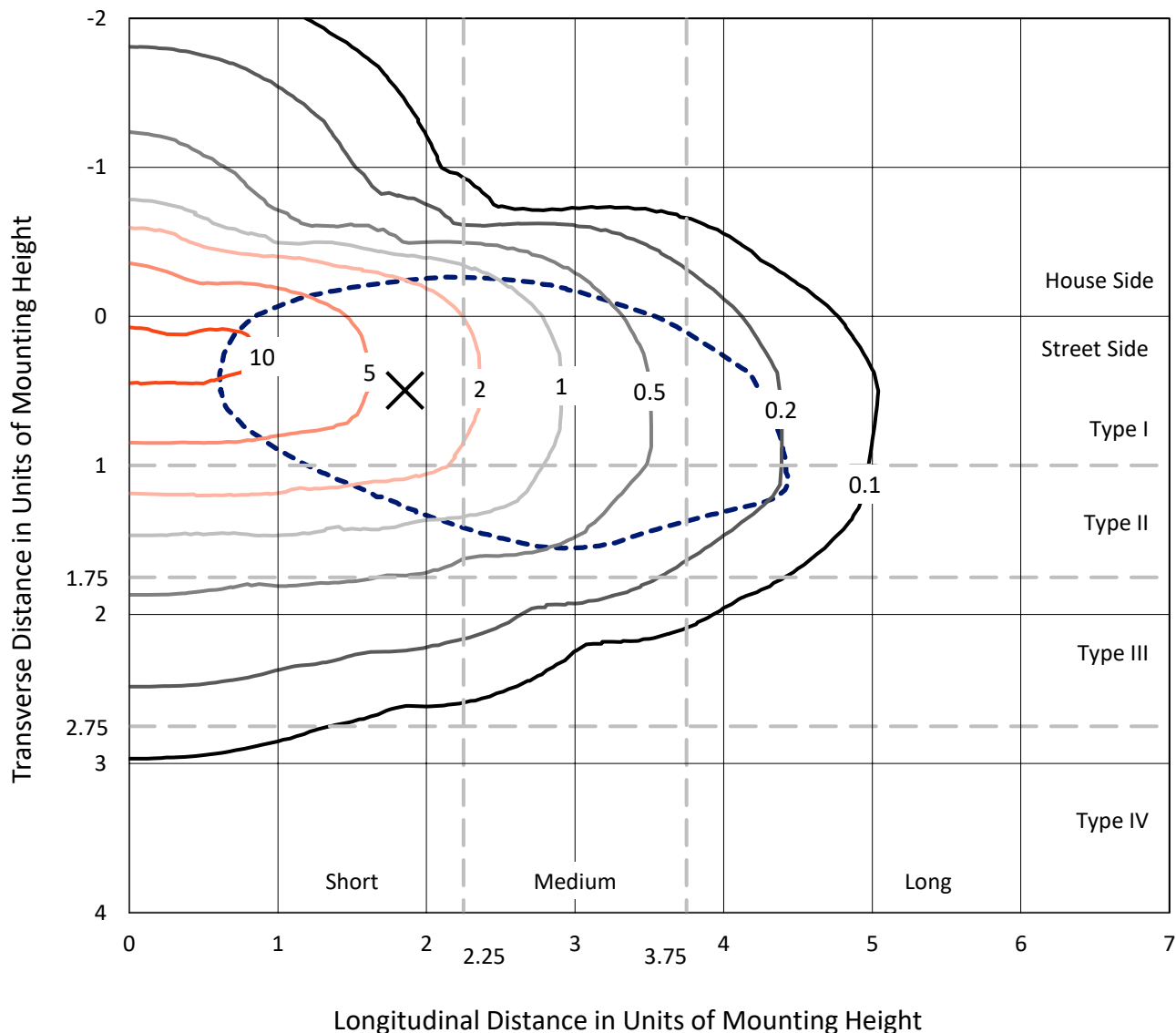
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

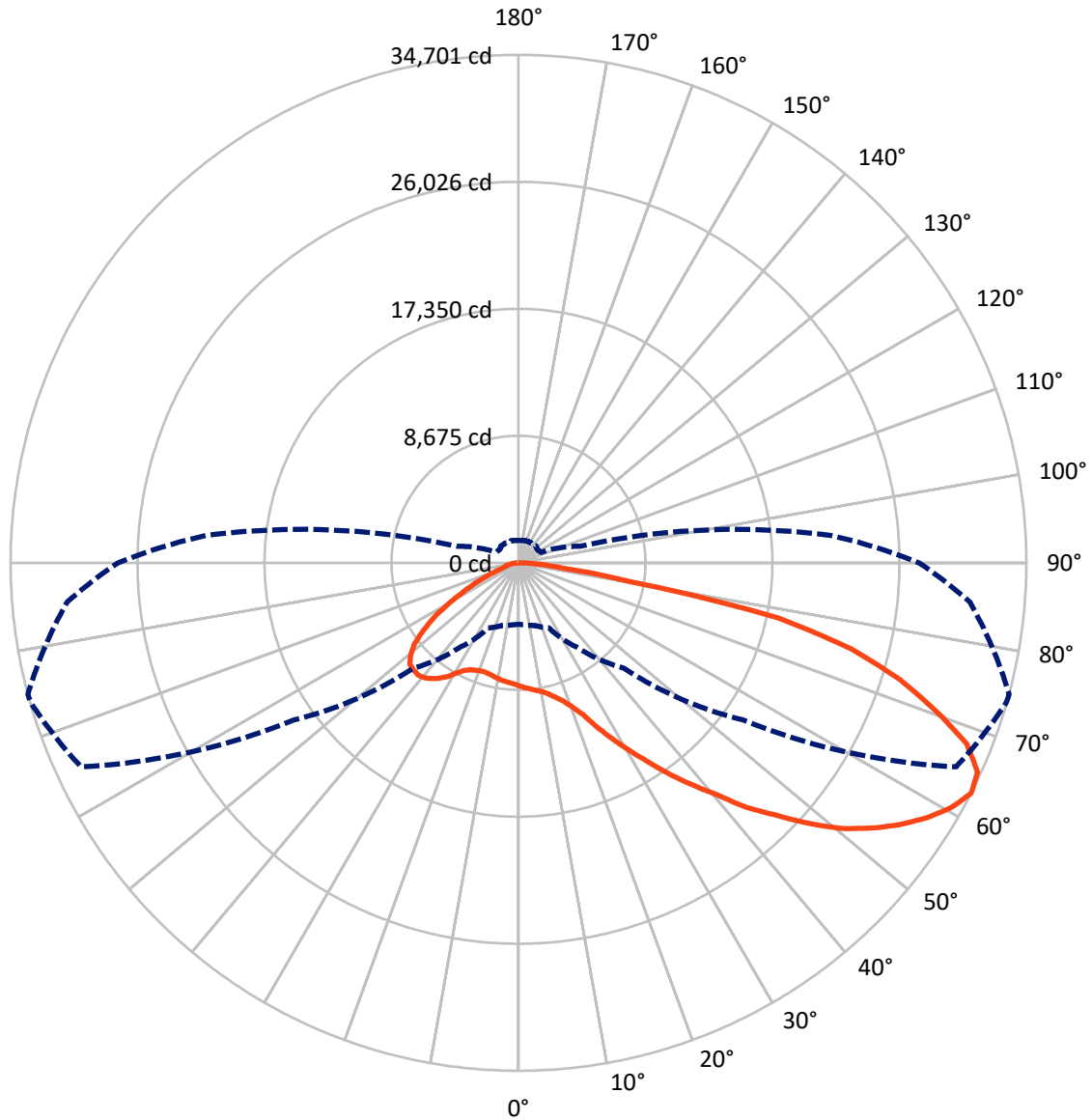
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 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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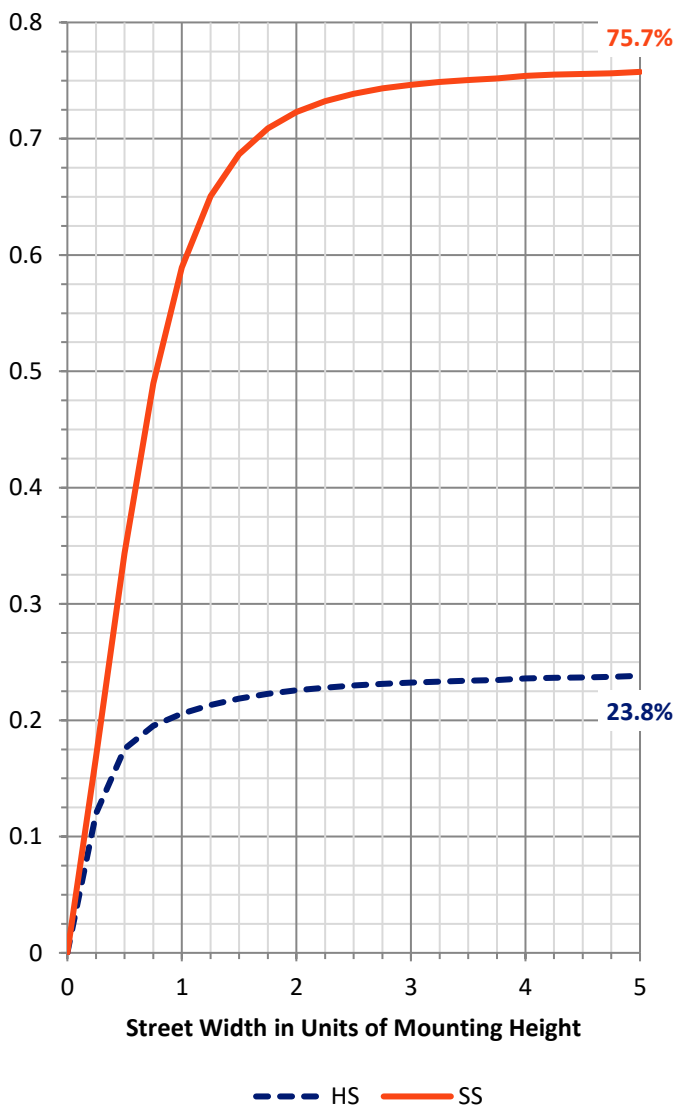
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11558.8	0.0	11558.8
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	36149.2	0.0	36149.2
	% Fixture	75.8	0.0	75.8
Total	Lumens	47708.0	0.0	47708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.1	1.7
10°-20°	2455.4	5.1
20°-30°	4235.0	8.9
30°-40°	6244.6	13.1
40°-50°	8231.7	17.3
50°-60°	9688.0	20.3
60°-70°	9638.6	20.2
70°-80°	5620.9	11.8
80°-90°	784.8	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°	47708.0	100.0
0°-180°	47708.0	100.0

Coefficient of Utilization

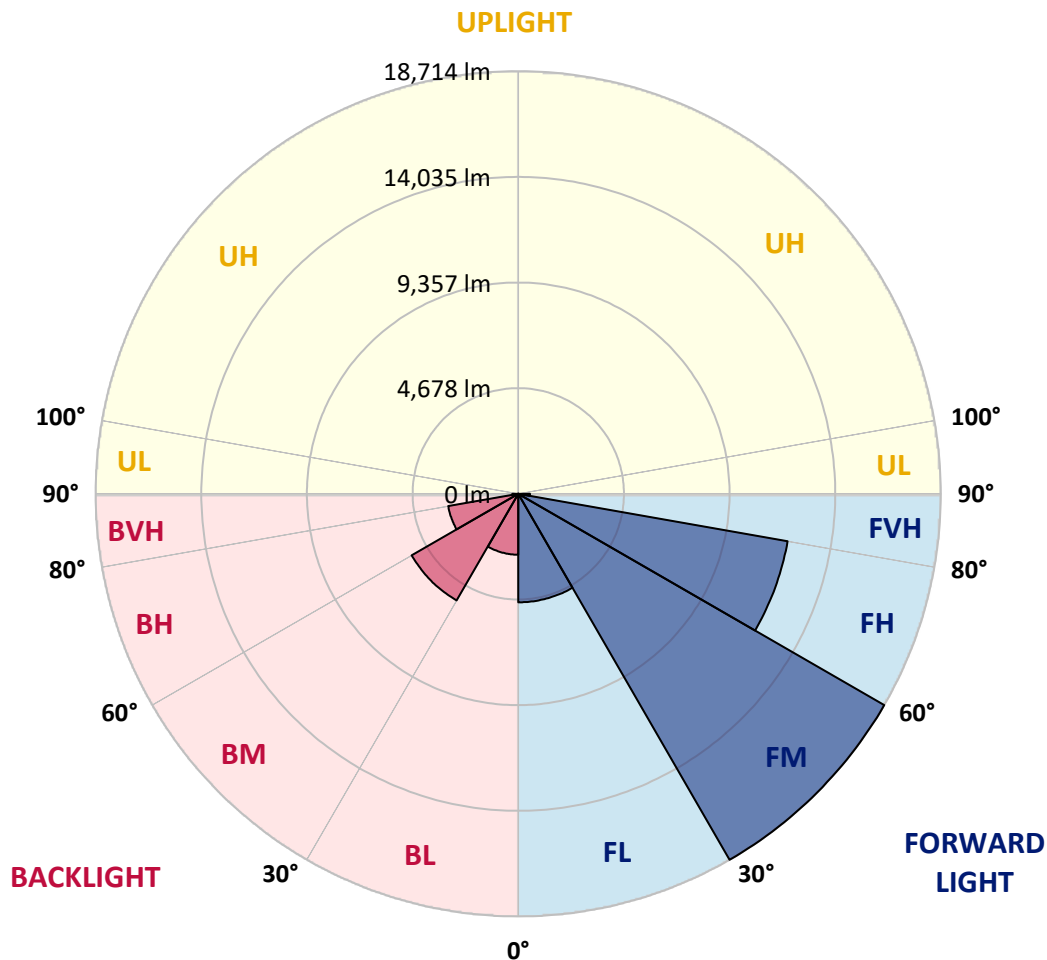


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4804.0	10.1			
FM (30°-60°)	18713.9	39.2			
FH (60°-80°)	12110.5	25.4			G5
FVH (80°-90°)	520.8	1.1			G4/750
BL (0°-30°)	2695.5	5.6	B4/5000		
BM (30°-60°)	5450.3	11.4	B4/8500		
BH (60°-80°)	3149.0	6.6	B4/5000		G4/5000
BVH (80°-90°)	264.0	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°	8409.8	8409.8	8409.8	8409.8	8409.8	8409.8	8409.8	8409.8	8409.8	8409.8	8409.8
2.5°	8870.3	8834.0	8838.9	8813.4	8775.1	8746.6	8672.0	8591.5	8543.4	8539.4	8470.7
5°	9316.1	9327.9	9330.8	9249.3	9168.8	9077.5	8963.6	8808.5	8681.8	8662.2	8528.6
7.5°	9722.6	9721.6	9715.7	9670.6	9633.3	9497.8	9270.0	9026.5	8820.3	8801.6	8584.6
10°	10138.9	10136.0	10077.1	10001.5	9917.0	9792.3	9596.9	9305.3	8971.5	8946.9	8636.6
12.5°	10592.6	10560.2	10522.8	10431.5	10331.4	10115.4	9910.1	9593.0	9244.4	9200.2	8728.9
15°	10966.7	10933.3	10881.2	10819.4	10714.3	10549.4	10331.4	9955.3	9581.2	9538.0	8936.1
17.5°	11336.8	11321.1	11283.8	11218.0	11137.5	10995.1	10794.8	10475.7	9985.8	9932.7	9280.8
20°	11640.2	11602.9	11575.4	11605.9	11612.7	11507.7	11397.7	11129.6	10589.6	10508.1	9704.0
22.5°	11813.0	11805.2	11955.4	12067.3	12112.5	12136.1	12101.7	11885.7	11396.7	11254.3	10293.1
25°	11977.0	11964.2	12168.5	12448.3	12714.4	12849.9	12941.2	12969.7	12521.0	12392.3	11240.6
27.5°	11981.9	12017.3	12313.8	12783.1	13188.7	13602.0	14040.0	14090.0	13696.3	13594.2	12318.7
30°	12008.4	12024.1	12317.7	12856.8	13701.2	14364.0	14934.4	15216.2	14876.5	14829.4	13505.8
32.5°	11671.6	11692.3	12148.8	12985.4	14088.1	15152.4	15909.5	16327.7	16243.3	16183.4	14772.4
35°	11321.1	11338.8	11869.0	12802.8	14375.8	15868.2	16790.2	17612.0	17766.2	17721.0	16185.4
37.5°	10771.3	10830.2	11385.9	12584.8	14425.8	16394.5	17630.7	18891.4	19356.8	19221.3	17679.8
40°	10174.3	10217.5	10864.5	12128.2	14369.9	16740.1	18456.5	20307.3	20870.9	20798.3	19163.4
42.5°	9420.2	9536.1	10184.1	11545.0	14082.2	16955.2	19220.4	21912.7	22731.6	22828.8	20526.3
45°	8784.9	8782.0	9383.9	10700.6	13560.8	17006.2	19923.4	23535.7	24733.6	24551.0	22328.0
47.5°	8037.7	8068.1	8696.5	9860.1	12792.0	16844.2	20471.3	25454.3	26667.0	26567.8	23805.8
50°	6308.6	6527.6	7717.6	9137.4	11752.2	16392.5	20927.9	27322.9	28480.5	28525.7	25149.0
52.5°	5438.7	5523.1	6180.0	8409.8	10829.2	15634.5	21428.6	29425.1	30233.2	30118.3	26673.8
55°	5090.1	5135.2	5450.4	7102.9	9936.7	14461.2	21669.2	31344.7	31600.0	31581.3	27928.7
57.5°	4837.7	4872.1	5096.0	5927.6	8956.7	12955.0	21465.9	32593.6	32990.3	32868.5	29112.8
60°	4473.5	4501.0	4834.8	5341.4	7948.3	11434.0	20216.0	33160.2	33998.7	33953.5	30159.5
62.5°	4199.5	4246.6	4433.2	4908.4	7087.2	10181.1	18726.5	32983.4	34660.5	34700.7	30958.8
65°	3909.9	3952.1	4110.2	4525.5	6306.6	9357.3	17120.1	32097.8	34356.1	34463.1	31088.4
67.5°	3552.5	3584.9	3772.4	4131.8	5394.5	8533.5	15308.5	30531.7	32667.3	33011.9	29798.2
70°	3102.8	3114.5	3344.3	3588.8	4479.4	7291.5	12172.4	27968.0	30223.4	30230.2	27362.1
72.5°	2469.4	2479.3	2540.1	2725.7	3364.9	5770.5	8946.9	23368.8	27252.2	27202.1	24318.3
75°	1679.0	1765.4	1976.5	2153.3	2427.2	4052.2	5564.3	15744.5	23089.0	23481.7	19975.4
77.5°	1326.5	1334.4	1421.8	1583.8	1820.4	3027.1	3118.5	8711.3	17213.4	18147.2	15701.3
80°	924.9	938.7	891.6	930.8	1269.6	2071.8	1822.4	3791.1	7178.5	7664.6	9427.1
82.5°	440.9	456.6	524.3	487.0	631.4	880.7	962.2	1958.9	3100.8	3182.3	3670.3
85°	290.6	290.6	291.6	275.9	368.2	383.9	436.9	835.6	1514.1	1565.1	1556.3
87.5°	93.3	103.1	100.2	116.8	141.4	127.6	133.5	262.2	519.4	514.5	430.1
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°	8409.8	8409.8	8409.8	8409.8	8409.8	8409.8	8409.8	8409.8	8409.8	8409.8	8409.8
2.5°	8421.6	8381.4	8287.1	8204.6	8123.1	8061.3	8008.2	7937.5	7904.2	7873.7	7937.5
5°	8446.2	8374.5	8205.6	8036.7	7881.6	7767.7	7698.0	7646.9	7600.8	7600.8	7622.4
7.5°	8474.6	8377.4	8135.9	7896.3	7663.6	7534.0	7434.8	7370.0	7332.7	7334.7	7380.8
10°	8493.3	8344.0	8056.4	7733.3	7480.0	7271.8	7174.6	7081.3	7010.6	6968.4	7015.6
12.5°	8514.9	8333.2	7949.3	7585.0	7276.7	7041.1	6838.8	6769.1	6700.4	6647.4	6672.9
15°	8648.4	8374.5	7860.0	7396.5	7039.1	6745.5	6480.4	6352.8	6333.1	6296.8	6305.7
17.5°	8866.4	8485.4	7802.0	7165.8	6753.4	6406.8	6071.0	5906.0	5866.8	5848.1	5857.9
20°	9191.4	8696.5	7819.7	7003.8	6431.3	6043.5	5609.5	5416.1	5285.5	5293.3	5331.6
22.5°	9688.2	9037.3	7915.9	6826.1	6082.8	5574.2	5136.2	4873.1	4741.5	4713.0	4756.2
25°	10479.6	9586.1	8022.0	6656.2	5746.0	5067.5	4582.4	4297.7	4128.8	4118.0	4166.1
27.5°	11493.9	10427.6	8252.7	6508.9	5327.7	4458.7	3976.6	3733.1	3553.4	3531.8	3516.1
30°	12531.8	11362.4	8670.0	6285.0	4839.7	3830.3	3411.1	3220.6	3019.3	2937.8	2955.5
32.5°	13631.5	12233.3	9159.0	6127.9	4293.8	3277.5	2913.2	2731.6	2547.0	2429.2	2401.7
35°	14739.1	13099.3	9570.4	5893.3	3776.3	2838.6	2490.1	2302.5	2141.5	2045.3	2038.4
37.5°	16035.1	14000.7	9900.3	5643.9	3239.2	2495.0	2075.7	1967.7	1890.1	1805.7	1814.5
40°	17333.2	15051.3	10164.5	5231.5	2793.5	2125.8	1766.4	1788.0	1804.7	1734.0	1728.1
42.5°	18411.3	15934.0	10285.2	4697.3	2398.7	1804.7	1629.9	1728.1	1800.8	1754.6	1748.7
45°	19506.1	16677.3	10238.1	4034.6	2070.8	1651.5	1619.1	1719.3	1812.6	1801.8	1796.8
47.5°	20696.1	17651.3	10156.6	3279.5	1836.1	1636.8	1642.7	1689.8	1807.6	1827.3	1819.4
50°	22151.3	18547.8	9674.5	2553.9	1722.2	1660.4	1695.7	1671.2	1771.3	1811.6	1818.4
52.5°	23599.6	19238.0	9029.4	2213.2	1677.1	1682.9	1769.4	1685.9	1730.1	1765.4	1797.8
55°	24716.9	19941.1	7985.7	2008.0	1662.3	1693.7	1790.0	1717.3	1716.3	1716.3	1727.1
57.5°	25860.8	20882.7	6941.9	1875.4	1636.8	1705.5	1765.4	1723.2	1709.5	1689.8	1677.1
60°	26657.2	21231.3	5600.7	1788.0	1610.3	1688.8	1696.7	1690.8	1648.6	1629.9	1615.2
62.5°	27364.1	21420.8	4360.5	1687.9	1574.0	1649.6	1608.3	1595.6	1571.0	1525.8	1533.7
65°	27174.6	21014.3	3322.7	1574.9	1548.4	1602.4	1530.8	1500.3	1502.3	1455.2	1470.9
67.5°	25955.1	19190.9	2386.0	1402.1	1478.7	1509.2	1442.4	1419.8	1386.4	1362.9	1384.5
70°	23491.6	17012.1	1609.3	1163.5	1319.7	1385.4	1341.3	1302.0	1249.9	1234.2	1257.8
72.5°	19772.2	14201.0	1110.5	935.7	1139.0	1224.4	1207.7	1167.5	1130.1	1168.4	1214.6
75°	16243.3	10506.2	906.3	766.9	875.8	1020.2	1069.3	1081.1	1193.0	1566.1	1604.4
77.5°	11692.3	6512.8	815.0	623.5	699.1	815.9	914.1	954.4	1457.1	1395.3	1392.3
80°	6817.2	3796.0	621.5	491.9	565.6	598.0	714.8	1120.3	1256.8	1078.1	1051.6
82.5°	3110.6	1675.1	433.0	393.7	392.8	395.7	487.0	1078.1	964.2	849.3	817.9
85°	1143.9	589.1	263.1	227.8	261.2	226.8	319.1	790.4	558.7	549.9	458.5
87.5°	281.8	120.8	89.4	74.6	60.9	57.9	97.2	260.2	136.5	124.7	119.8
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)