

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: P510811

Luminaire Tested: **CTN-CA8-330-760-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-12)  
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-T4  
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: 48140 lumens  
Efficiency: N/A  
Efficacy: 145.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

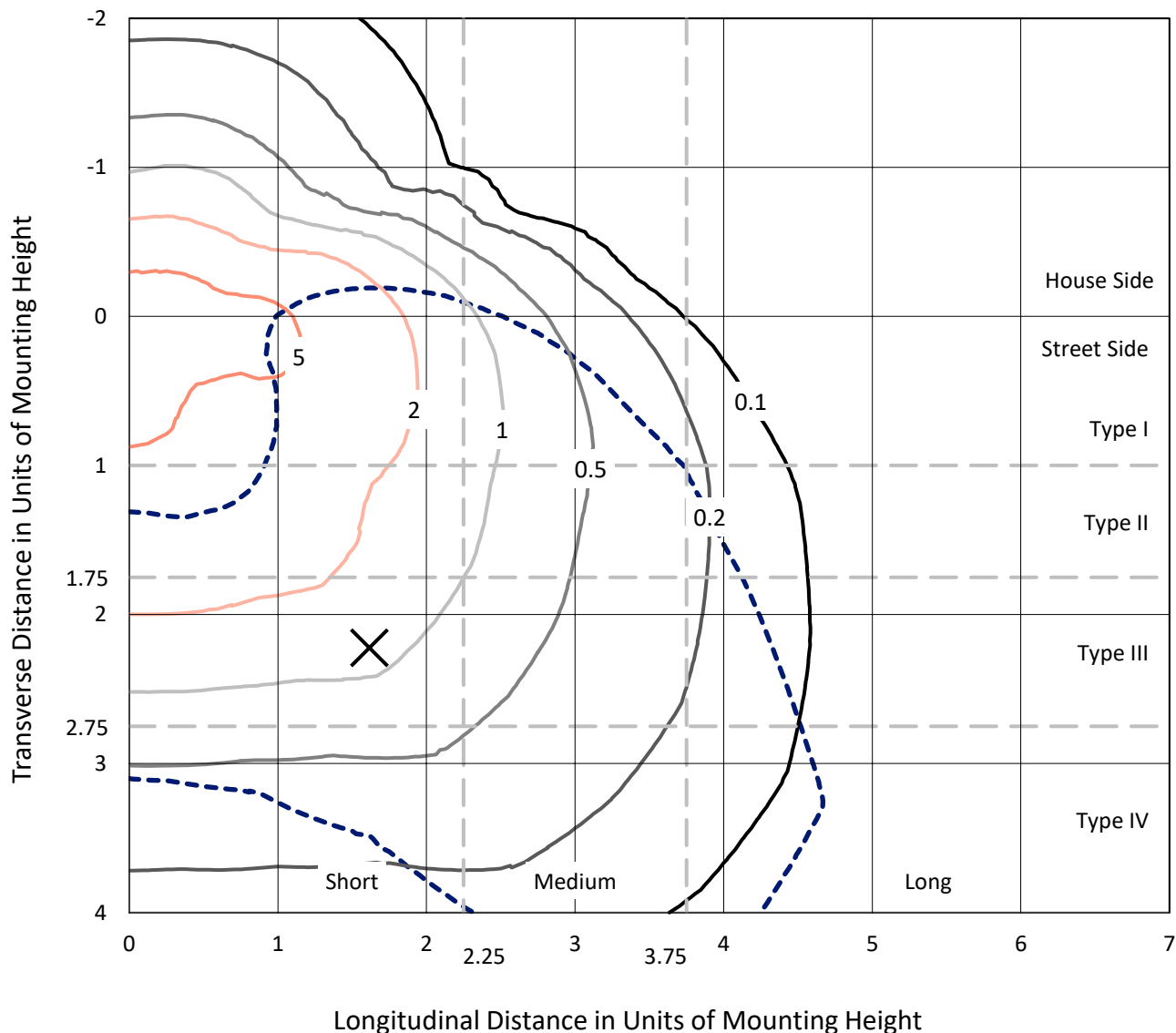
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

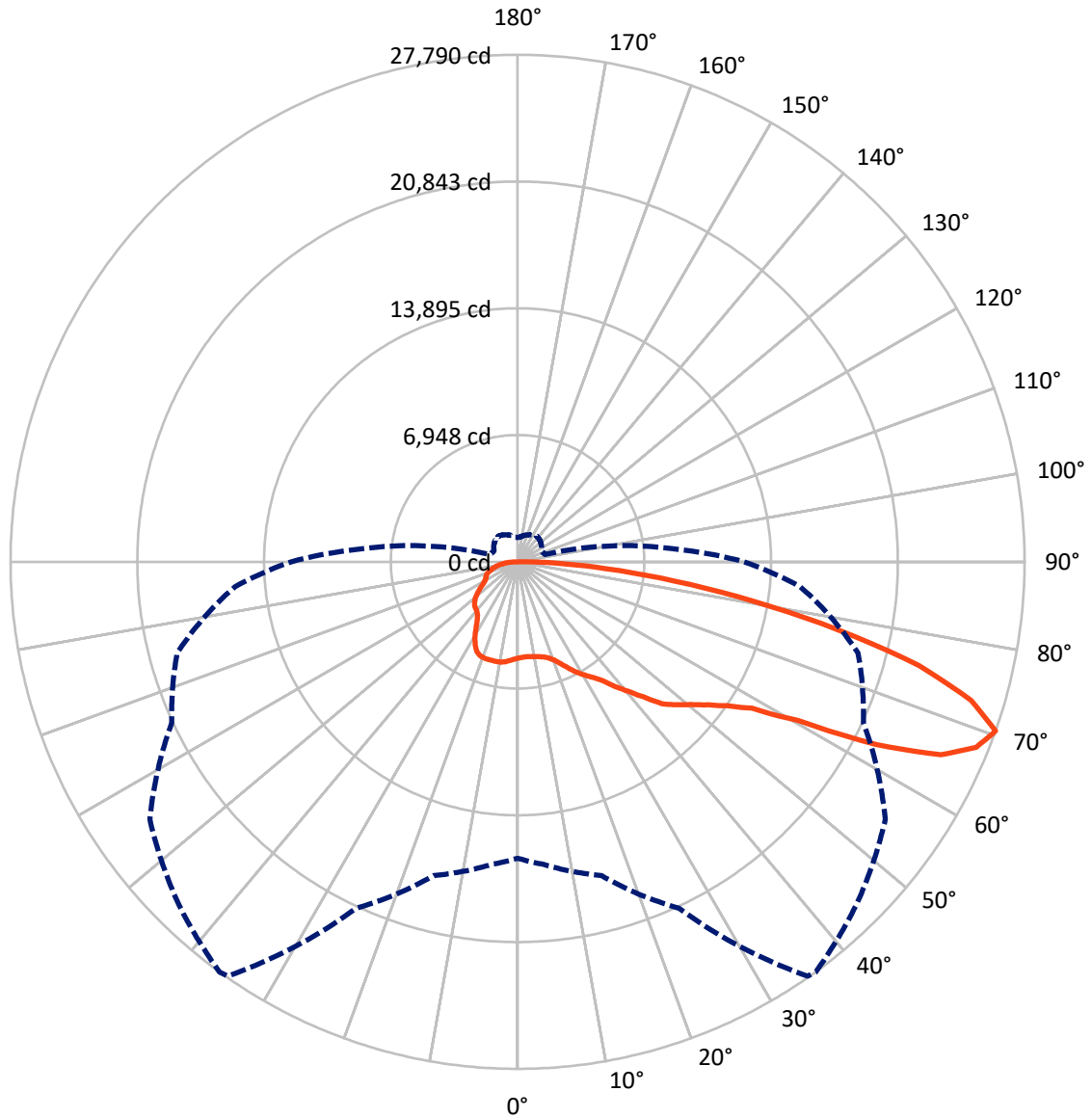
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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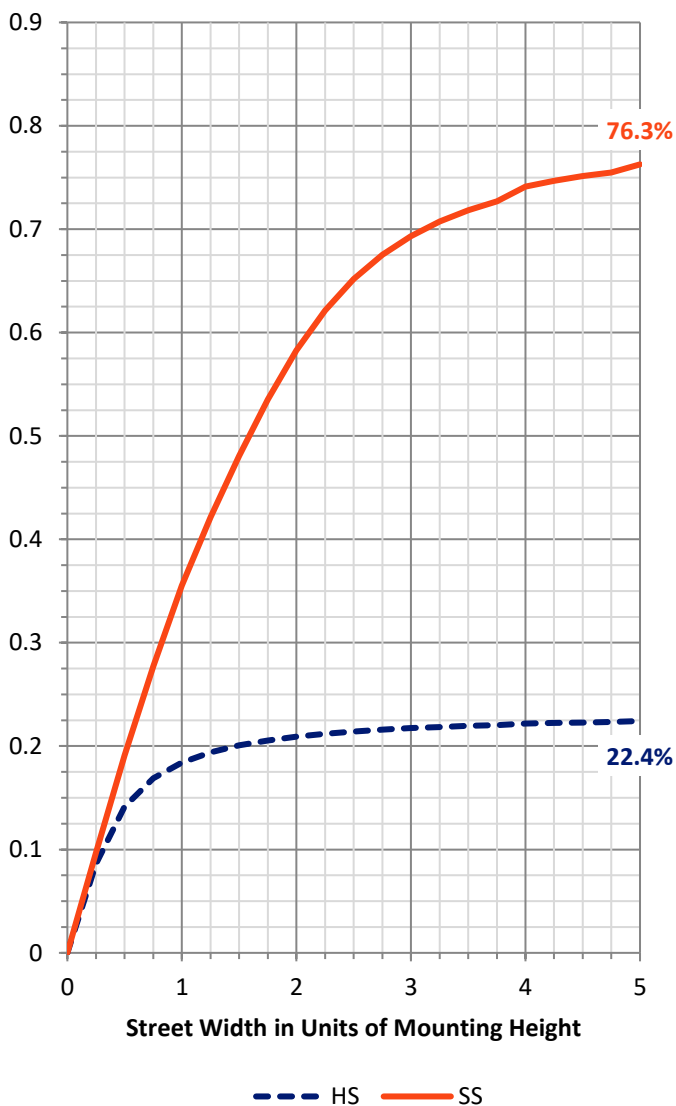
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10968.4	0.0	10968.4
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	37171.6	0.0	37171.6
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	48140.0	0.0	48140.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.8	1.1
10°-20°	1579.2	3.3
20°-30°	2848.6	5.9
30°-40°	4412.0	9.2
40°-50°	6701.8	13.9
50°-60°	9289.1	19.3
60°-70°	12079.1	25.1
70°-80°	8920.3	18.5
80°-90°	1799.0	3.7
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°	48140.0	100.0
0°-180°	48140.0	100.0

**Coefficient of Utilization**



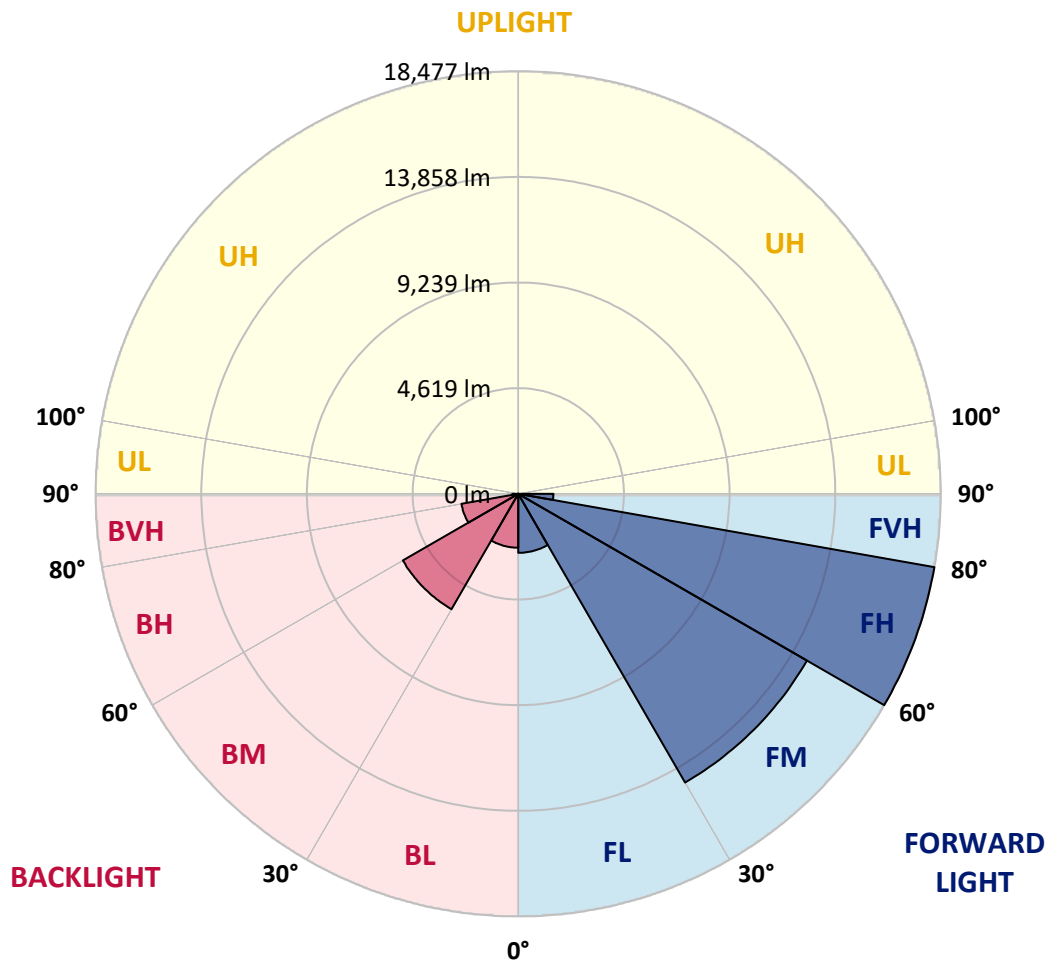
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2580.8	5.4			
FM (30°-60°)	14576.7	30.3			
FH (60°-80°)	18477.2	38.4			G5
FVH (80°-90°)	1536.9	3.2			G5
BL (0°-30°)	2357.9	4.9	B3/2500		
BM (30°-60°)	5826.3	12.1	B4/8500		
BH (60°-80°)	2522.1	5.2	B4/5000		G4/5000
BVH (80°-90°)	262.1	0.5			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5272.8	5272.8	5272.8	5272.8	5272.8	5272.8	5272.8	5272.8	5272.8	5272.8	5272.8
2.5°	5240.9	5233.9	5229.9	5237.9	5240.9	5241.9	5243.9	5241.9	5236.9	5254.8	5276.8
5°	5241.9	5237.9	5229.9	5222.9	5222.9	5222.9	5223.9	5246.8	5256.8	5254.8	5281.7
7.5°	5249.8	5246.8	5231.9	5226.9	5238.9	5242.9	5262.8	5255.8	5266.8	5284.7	5307.7
10°	5250.8	5246.8	5233.9	5244.9	5278.7	5284.7	5293.7	5313.6	5317.6	5339.5	5362.5
12.5°	5260.8	5260.8	5265.8	5289.7	5325.6	5332.6	5366.5	5382.4	5406.3	5417.3	5445.2
15°	5313.6	5312.6	5324.6	5351.5	5409.3	5413.3	5455.2	5503.0	5521.0	5547.9	5592.7
17.5°	5439.2	5445.2	5446.2	5466.1	5534.9	5536.9	5605.7	5650.5	5691.4	5739.2	5841.9
20°	5737.2	5726.3	5714.3	5714.3	5741.2	5755.2	5808.0	5879.8	5963.5	6048.2	6168.8
22.5°	6112.0	6134.0	6090.1	6067.2	6080.1	6064.2	6104.0	6161.9	6259.5	6386.1	6538.6
25°	6559.6	6561.6	6558.6	6465.9	6437.0	6446.9	6479.8	6533.6	6663.2	6763.9	6985.2
27.5°	6996.1	6987.2	6955.3	6857.6	6829.7	6843.6	6842.6	6991.1	7123.7	7252.3	7512.4
30°	7392.8	7416.8	7359.9	7195.5	7198.5	7196.5	7242.3	7433.7	7675.9	7915.1	8182.3
32.5°	8092.5	8019.8	7943.0	7618.1	7558.3	7551.3	7578.2	7863.3	8222.1	8625.8	8946.8
35°	8751.4	8733.5	8657.7	8327.8	7981.9	7975.9	7939.1	8285.9	8790.3	9537.8	9938.5
37.5°	9425.2	9399.3	9324.5	9043.4	8699.6	8666.7	8356.7	8736.4	9418.2	10604.3	11175.5
40°	10228.6	10212.6	10097.0	9737.2	9384.3	9334.5	9012.5	9209.9	10210.6	12024.7	12427.4
42.5°	10933.3	10930.3	10797.7	10463.8	10163.8	10113.9	9839.8	10045.2	11312.0	13416.1	13653.4
45°	11450.6	11529.3	11535.3	11344.9	11137.6	11093.7	11021.0	11304.1	12585.9	14679.0	14644.1
47.5°	11887.1	11954.9	11884.2	11786.5	11715.7	11718.7	11831.3	12393.5	13843.7	15779.4	15508.3
50°	12616.8	12574.9	12207.1	12149.3	12239.0	12291.8	12618.8	13569.6	15284.0	16812.0	16283.8
52.5°	13669.3	13508.8	12787.2	12669.6	13009.5	13029.4	13549.7	14621.2	16723.3	17698.2	16993.5
55°	15109.6	14977.0	14161.7	13618.5	13789.9	13924.5	14657.1	15698.7	17898.5	18531.4	17539.7
57.5°	17238.7	17248.6	16583.8	15571.1	14988.0	15131.5	15703.7	16746.3	18869.3	19229.1	17880.6
60°	18945.1	19261.0	19062.7	18600.2	17762.9	17665.3	17229.7	17837.7	19698.6	19822.2	18206.5
62.5°	20128.2	20271.7	20953.5	21051.2	22008.1	22048.9	19962.7	19116.5	20609.6	20210.9	18275.3
65°	20068.4	20157.1	21234.6	22546.3	25373.1	25499.7	24278.6	21051.2	21233.6	20384.4	18074.9
67.5°	18671.0	18804.5	20174.1	22626.0	27166.2	27118.4	26343.9	23744.4	21438.9	20106.3	17120.0
70°	16243.9	16655.6	17805.8	20944.5	27726.4	27790.2	26362.8	24604.6	20909.7	19319.9	15528.2
72.5°	13388.2	13517.8	14604.3	18116.8	26088.7	25995.0	25282.4	23469.3	19952.8	17897.5	12742.3
75°	10181.7	10181.7	11497.4	14437.8	22403.8	22732.7	23009.8	21256.5	17676.2	14587.3	8676.6
77.5°	6758.9	7001.1	8060.7	10849.5	17734.0	17977.2	18934.1	18118.8	14472.7	10697.0	3963.0
80°	3585.3	3615.2	4751.5	7209.4	12684.5	13143.0	14458.7	13974.3	10410.0	5011.6	1001.7
82.5°	1253.9	1368.5	2089.2	4178.3	8357.7	8643.7	9591.6	8303.9	3677.0	1109.4	554.2
85°	623.0	644.9	920.0	1989.5	4705.6	4844.2	5603.7	3234.4	592.1	484.4	376.8
87.5°	300.0	307.0	352.8	711.7	2045.3	2140.0	2265.6	1052.6	219.3	184.4	163.5
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°	5272.8	5272.8	5272.8	5272.8	5272.8	5272.8	5272.8	5272.8	5272.8	5272.8	5272.8
2.5°	5281.7	5290.7	5307.7	5312.6	5300.7	5322.6	5343.5	5362.5	5361.5	5368.5	5393.4
5°	5293.7	5312.6	5330.6	5362.5	5393.4	5411.3	5428.3	5444.2	5449.2	5464.1	5479.1
7.5°	5330.6	5349.5	5390.4	5446.2	5448.2	5493.0	5522.0	5526.9	5530.9	5530.9	5565.8
10°	5387.4	5422.3	5488.1	5526.9	5561.8	5546.9	5576.8	5557.8	5543.9	5549.9	5573.8
12.5°	5485.1	5516.0	5610.7	5653.5	5621.6	5615.6	5585.7	5542.9	5494.0	5489.1	5511.0
15°	5638.6	5696.4	5781.1	5822.0	5742.2	5671.5	5570.8	5483.1	5388.4	5353.5	5367.5
17.5°	5885.8	5955.5	6048.2	6020.3	5874.8	5735.3	5568.8	5383.4	5200.0	5072.4	5105.3
20°	6247.6	6299.4	6375.2	6262.5	6050.2	5820.0	5546.9	5253.8	4943.8	4711.6	4684.7
22.5°	6627.3	6706.1	6660.2	6451.9	6173.8	5852.9	5501.0	5065.4	4586.0	4295.0	4251.1
25°	7084.8	7110.8	6952.3	6638.3	6208.7	5801.0	5352.5	4790.3	4220.2	3946.1	3933.1
27.5°	7570.3	7511.4	7216.4	6724.0	6169.8	5647.5	5054.5	4355.8	3889.3	3647.1	3609.2
30°	8118.5	7981.9	7434.7	6733.0	6023.3	5348.5	4677.7	4015.9	3620.2	3377.0	3338.1
32.5°	8824.2	8502.2	7637.0	6640.3	5714.3	4910.0	4225.2	3725.8	3378.0	3133.8	3098.9
35°	9726.2	9183.0	7851.3	6472.8	5333.6	4471.4	3850.4	3479.6	3181.6	2887.6	2840.7
37.5°	10765.8	10132.9	8107.5	6261.5	4915.9	4085.6	3597.2	3323.1	3036.1	2703.2	2647.3
40°	11973.9	11083.8	8502.2	6009.4	4541.2	3807.6	3474.6	3269.3	2955.3	2608.5	2544.7
42.5°	13020.4	12089.5	8971.7	5738.2	4187.3	3576.3	3419.8	3233.4	2904.5	2537.7	2464.9
45°	13988.3	12919.8	9430.2	5409.3	3814.5	3417.8	3354.0	3143.7	2814.8	2450.0	2374.2
47.5°	14774.7	13590.6	9828.9	5107.3	3516.5	3272.3	3210.5	2973.3	2664.3	2344.3	2288.5
50°	15378.7	14094.9	10047.2	4867.1	3201.5	3106.8	3025.1	2780.9	2483.9	2207.8	2159.9
52.5°	15996.7	14600.3	10154.8	4879.1	2908.5	2860.6	2776.9	2567.6	2340.4	2128.0	2076.2
55°	16356.5	14807.6	10041.2	4589.0	2639.4	2583.6	2510.8	2402.1	2266.6	2078.2	2029.4
57.5°	16566.8	14936.2	9695.3	3742.8	2315.4	2262.6	2274.6	2265.6	2154.0	1955.6	1910.8
60°	16718.4	14657.1	8986.6	2751.0	2039.3	1999.5	2098.1	2066.2	1969.6	1815.1	1777.2
62.5°	16595.8	14125.8	7710.8	2068.2	1814.1	1898.8	1985.5	1926.7	1795.1	1654.6	1610.7
65°	15848.2	13083.2	5860.8	1661.6	1741.3	1857.9	1927.7	1833.0	1699.4	1533.0	1513.1
67.5°	14487.6	11193.4	3456.7	1523.0	1686.5	1810.1	1867.9	1742.3	1624.7	1465.2	1441.3
70°	12411.4	8379.6	1544.0	1418.4	1590.8	1713.4	1751.3	1632.7	1505.1	1355.6	1331.6
72.5°	9237.8	5052.5	1040.6	1309.7	1449.3	1557.9	1599.8	1474.2	1383.5	1315.7	1308.7
75°	5130.2	1754.3	959.9	1186.1	1294.8	1392.4	1444.3	1355.6	1283.8	1191.1	1153.2
77.5°	1633.7	745.6	912.0	1060.5	1198.1	1278.8	1270.8	1137.3	1114.4	1001.7	991.8
80°	651.9	649.9	843.2	868.2	1022.7	1090.4	1072.5	904.0	933.9	868.2	842.2
82.5°	511.3	595.1	675.8	662.8	795.4	875.1	850.2	663.8	750.5	689.7	630.9
85°	388.7	521.3	433.6	431.6	555.2	649.9	665.8	510.3	511.3	465.5	414.6
87.5°	200.3	192.4	166.5	165.5	185.4	264.1	323.9	290.1	229.3	172.4	165.5
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)