

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: P510789

Luminaire Tested: **CTN-CA8-330-740-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA8-330-740-U-T3  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49048 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

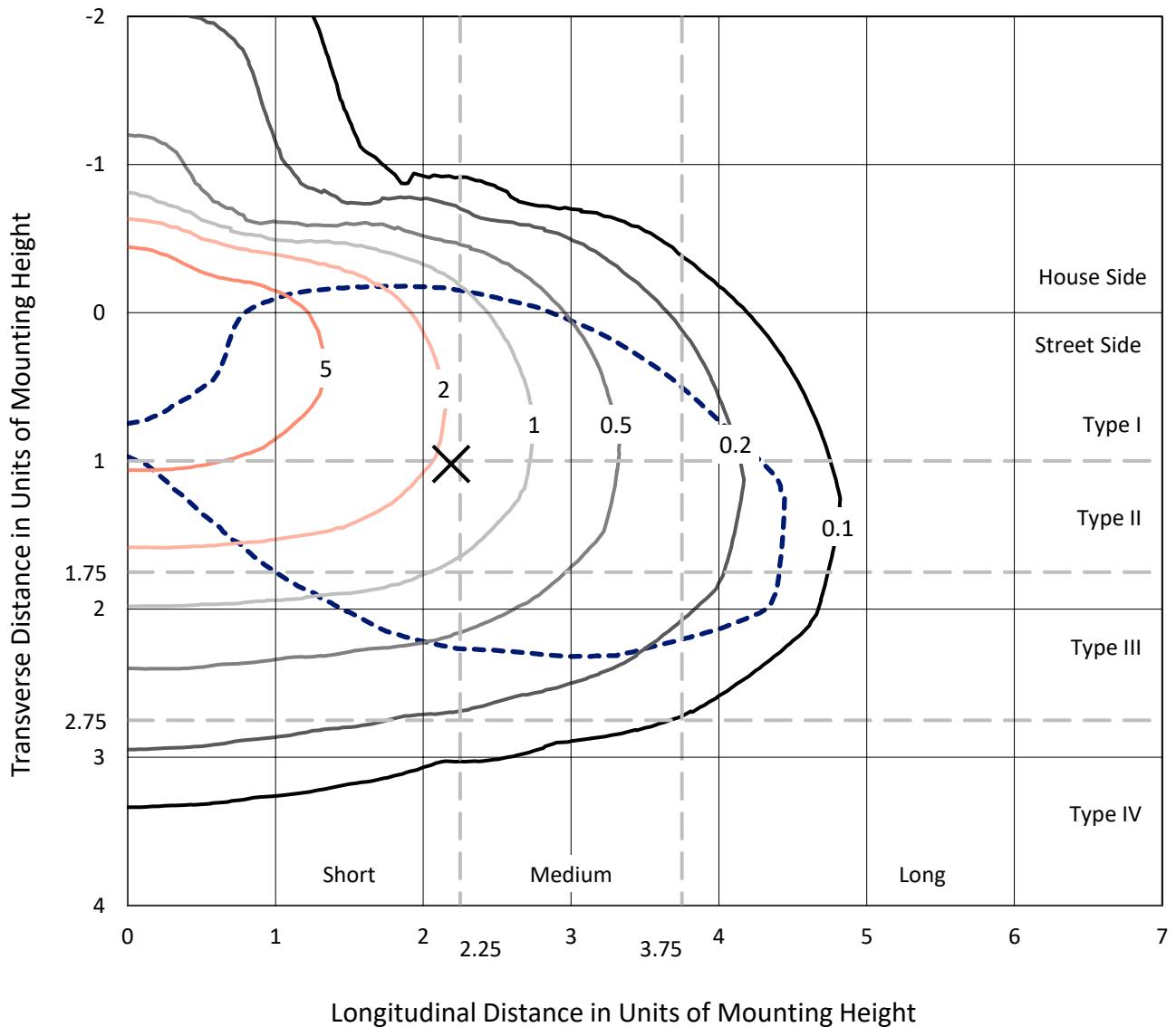
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

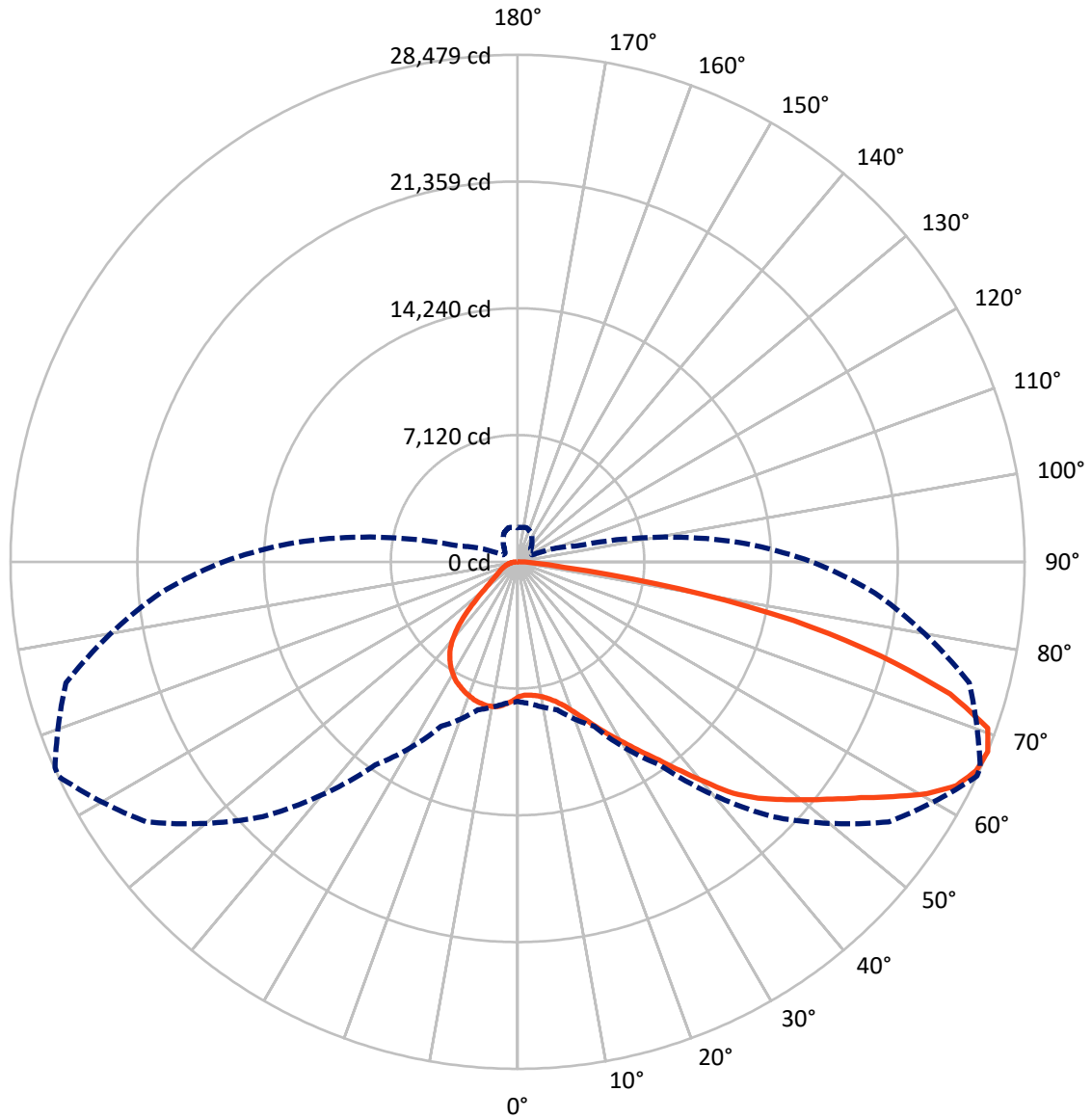
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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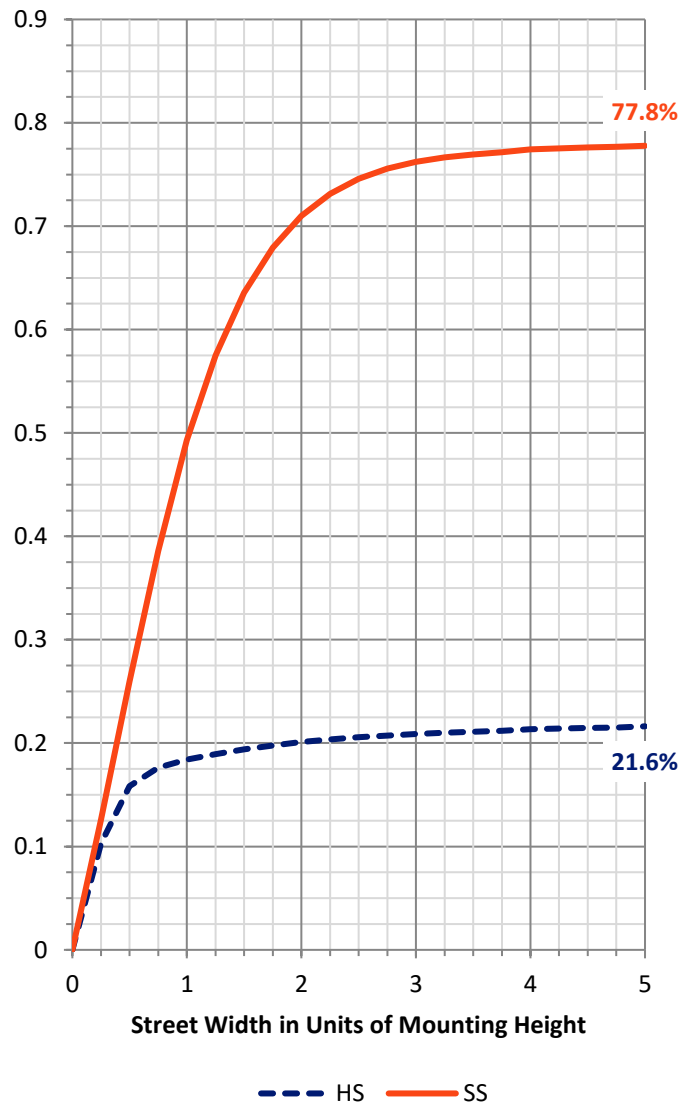
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10834.1	0.0	10834.1
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	38213.9	0.0	38213.9
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	49048.0	0.0	49048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	754.8	1.5
10°-20°	2358.4	4.8
20°-30°	4082.6	8.3
30°-40°	5999.0	12.2
40°-50°	8108.4	16.5
50°-60°	9970.9	20.3
60°-70°	10684.5	21.8
70°-80°	6301.6	12.8
80°-90°	787.7	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°	49048.0	100.0
0°-180°	49048.0	100.0

**Coefficient of Utilization**



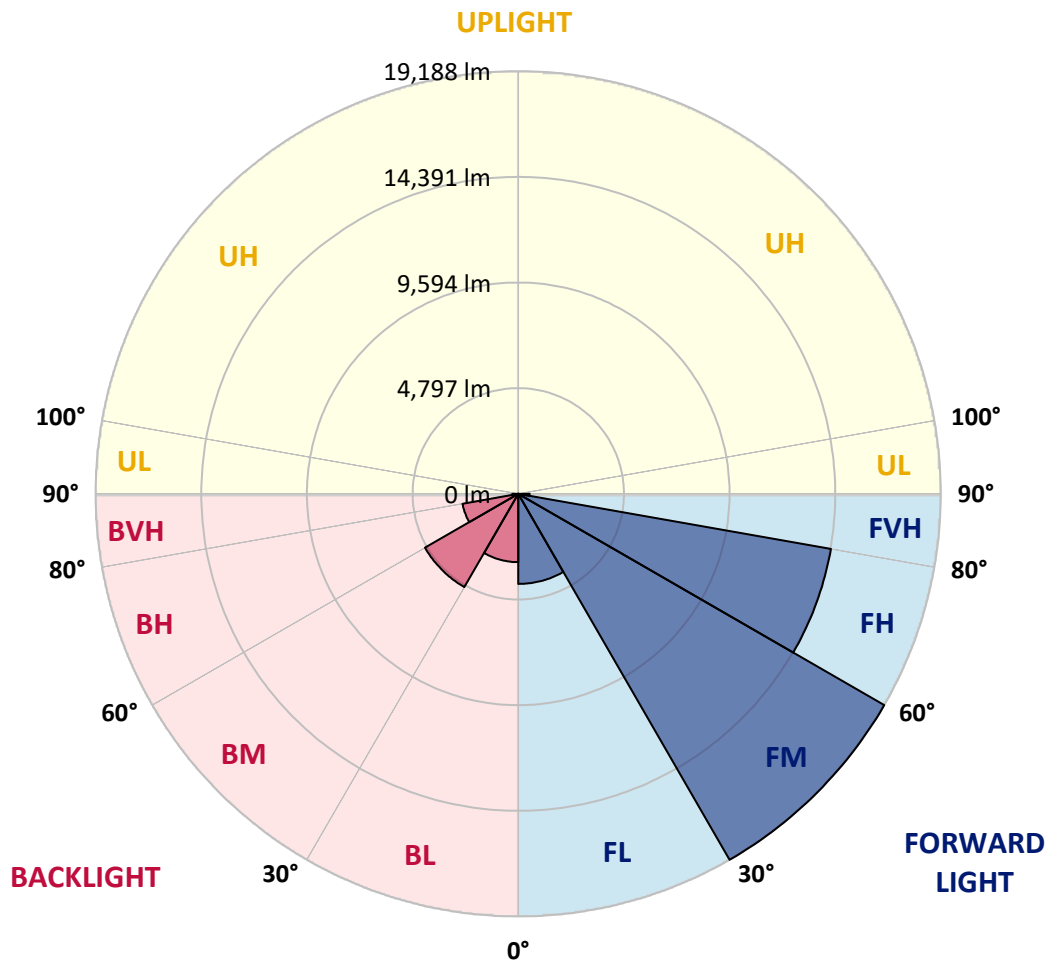
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4092.7	8.3			
FM (30°-60°)	19187.9	39.1			
FH (60°-80°)	14416.8	29.4			G5
FVH (80°-90°)	516.5	1.1			G4/750
BL (0°-30°)	3103.2	6.3	B4/5000		
BM (30°-60°)	4890.5	10.0	B3/5000		
BH (60°-80°)	2569.3	5.2	B4/5000		G4/5000
BVH (80°-90°)	271.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7576.1	7576.1	7576.1	7576.1	7576.1	7576.1	7576.1	7576.1	7576.1	7576.1	7576.1
2.5°	7433.1	7419.1	7413.1	7432.1	7446.1	7462.1	7485.1	7507.1	7510.1	7539.1	7577.1
5°	7523.1	7511.1	7498.1	7495.1	7490.1	7489.1	7495.1	7520.1	7526.1	7554.1	7636.1
7.5°	7723.1	7711.1	7687.1	7678.1	7651.1	7603.1	7580.1	7593.1	7596.1	7630.1	7732.1
10°	8049.1	8012.1	7983.1	7953.1	7868.1	7792.1	7736.1	7712.1	7707.1	7740.1	7858.1
12.5°	8438.1	8407.1	8375.1	8296.1	8188.1	8051.1	7952.1	7897.1	7893.1	7921.1	8010.1
15°	8849.1	8849.1	8827.1	8733.1	8627.1	8400.1	8247.1	8155.1	8161.1	8183.1	8224.1
17.5°	9380.1	9336.1	9326.1	9219.1	9101.1	8894.1	8651.1	8504.1	8511.1	8521.1	8490.1
20°	9920.1	9907.1	9892.1	9821.1	9714.1	9448.1	9175.1	8982.1	8983.1	8947.1	8809.1
22.5°	10634.1	10591.1	10602.1	10522.1	10377.1	10104.1	9790.1	9561.1	9576.1	9524.1	9274.1
25°	11343.1	11300.1	11277.1	11223.1	11098.1	10839.1	10466.1	10256.1	10238.1	10144.1	9781.1
27.5°	12051.1	12026.1	12045.1	11980.1	11878.1	11589.1	11247.1	11014.1	11026.1	10961.1	10420.1
30°	12784.1	12756.1	12839.1	12734.1	12671.1	12390.1	12062.1	11788.1	11798.1	11822.1	11215.1
32.5°	13337.1	13370.1	13515.1	13503.1	13491.1	13178.1	12833.1	12681.1	12696.1	12780.1	12159.1
35°	13871.1	13874.1	14078.1	14232.1	14297.1	14035.1	13677.1	13672.1	13770.1	14026.1	13475.1
37.5°	14314.1	14304.1	14576.1	14815.1	14993.1	14790.1	14593.1	14900.1	14989.1	15520.1	14800.1
40°	14556.1	14577.1	14927.1	15225.1	15575.1	15479.1	15500.1	16285.1	16504.1	16969.1	15791.1
42.5°	14386.1	14450.1	14995.1	15603.1	16131.1	16259.1	16681.1	17781.1	17874.1	17958.1	16766.1
45°	14101.1	14168.1	14772.1	15754.1	16590.1	17131.1	17856.1	18932.1	19034.1	18940.1	17577.1
47.5°	13804.1	13873.1	14546.1	15693.1	16970.1	18007.1	18901.1	19950.1	20080.2	19789.1	18357.1
50°	13427.1	13534.1	14270.1	15564.1	17278.1	18952.1	19890.1	20998.2	21058.2	20638.2	18948.1
52.5°	12963.1	13081.1	13877.1	15343.1	17519.1	19612.1	20891.2	22135.2	22129.2	21630.2	19624.1
55°	12475.1	12582.1	13402.1	14995.1	17654.1	20120.2	21691.2	23388.2	23460.2	23042.2	20236.2
57.5°	11850.1	11947.1	12841.1	14527.1	17514.1	20551.2	22987.2	24877.2	24913.2	24025.2	20723.2
60°	11022.1	11165.1	12063.1	13932.1	17112.1	21050.2	24415.2	26443.2	26487.2	24992.2	21036.2
62.5°	10113.1	10170.1	11085.1	13016.1	16527.1	21435.2	25405.2	27668.2	27604.2	25748.2	21130.2
65°	9005.1	9050.1	9842.1	11838.1	15440.1	21224.2	25760.2	28298.2	28219.2	26223.2	20841.2
67.5°	7845.1	7984.1	8606.1	10204.1	13923.1	20250.2	25460.2	28479.2	28439.2	26259.2	20151.2
70°	6339.0	6388.0	6950.1	8313.1	11617.1	18300.1	24460.2	28015.2	27984.2	25455.2	18742.1
72.5°	4470.0	4422.0	4695.0	5764.0	8391.1	14557.1	20884.2	25408.2	25460.2	22771.2	16321.1
75°	2373.0	2465.0	2890.0	3529.0	4757.0	9358.1	16650.1	21028.2	21010.2	19041.1	12901.1
77.5°	1264.0	1262.0	1554.0	1827.0	2329.0	4300.0	10982.1	15858.1	15946.1	14753.1	8858.1
80°	607.0	630.0	648.0	743.0	1161.0	1987.0	4594.0	9196.1	9796.1	8799.1	4208.0
82.5°	486.0	488.0	490.0	469.0	480.0	809.0	1770.0	2661.0	2757.0	2216.0	1357.0
85°	360.0	338.0	335.0	284.0	321.0	486.0	893.0	1136.0	1080.0	1051.0	766.0
87.5°	145.0	136.0	132.0	124.0	124.0	183.0	315.0	411.0	410.0	374.0	257.0
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°	7576.1	7576.1	7576.1	7576.1	7576.1	7576.1	7576.1	7576.1	7576.1	7576.1	7576.1
2.5°	7607.1	7643.1	7727.1	7799.1	7826.1	7892.1	7954.1	7990.1	8015.1	8030.1	8098.1
5°	7686.1	7758.1	7892.1	7993.1	8091.1	8213.1	8292.1	8342.1	8370.1	8386.1	8435.1
7.5°	7807.1	7880.1	8022.1	8177.1	8267.1	8367.1	8418.1	8454.1	8472.1	8467.1	8506.1
10°	7915.1	7987.1	8129.1	8248.1	8299.1	8356.1	8383.1	8391.1	8392.1	8396.1	8435.1
12.5°	8062.1	8106.1	8182.1	8260.1	8249.1	8251.1	8274.1	8264.1	8241.1	8237.1	8263.1
15°	8220.1	8221.1	8227.1	8210.1	8141.1	8111.1	8079.1	8052.1	7989.1	7985.1	8026.1
17.5°	8418.1	8371.1	8262.1	8146.1	7982.1	7869.1	7755.1	7708.1	7631.1	7616.1	7636.1
20°	8673.1	8575.1	8310.1	8022.1	7715.1	7513.1	7375.1	7236.1	7129.1	7103.1	7122.1
22.5°	9039.1	8846.1	8371.1	7890.1	7415.1	7070.1	6802.1	6635.0	6455.0	6363.0	6372.0
25°	9481.1	9179.1	8477.1	7723.1	7062.1	6564.0	6129.0	5794.0	5591.0	5456.0	5492.0
27.5°	10060.1	9645.1	8604.1	7558.1	6623.0	5917.0	5286.0	4832.0	4625.0	4561.0	4519.0
30°	10731.1	10208.1	8738.1	7314.1	6149.0	5116.0	4308.0	3930.0	3693.0	3655.0	3623.0
32.5°	11629.1	10917.1	8989.1	7049.1	5583.0	4315.0	3438.0	3003.0	2949.0	2918.0	2911.0
35°	12787.1	11846.1	9252.1	6705.1	4845.0	3376.0	2601.0	2366.0	2340.0	2374.0	2377.0
37.5°	14016.1	12854.1	9567.1	6317.0	3996.0	2519.0	1990.0	1827.0	1856.0	1962.0	1986.0
40°	14848.1	13518.1	9853.1	5790.0	2947.0	1830.0	1448.0	1413.0	1573.0	1709.0	1737.0
42.5°	15646.1	14021.1	9969.1	5093.0	2102.0	1303.0	1169.0	1289.0	1513.0	1662.0	1682.0
45°	16327.1	14606.1	9677.1	4257.0	1425.0	1089.0	1120.0	1286.0	1535.0	1700.0	1715.0
47.5°	16975.1	15084.1	9278.1	3354.0	1124.0	1048.0	1119.0	1313.0	1584.0	1740.0	1749.0
50°	17594.1	15448.1	8597.1	2552.0	1053.0	1029.0	1128.0	1355.0	1611.0	1709.0	1705.0
52.5°	18053.1	15636.1	7872.1	2060.0	1025.0	1014.0	1152.0	1408.0	1616.0	1675.0	1671.0
55°	18390.1	15600.1	7396.1	1687.0	1002.0	1008.0	1191.0	1448.0	1664.0	1753.0	1750.0
57.5°	18421.1	15437.1	6855.1	1425.0	974.0	1007.0	1233.0	1504.0	1904.0	2068.0	2018.0
60°	18384.1	15167.1	6315.0	1251.0	943.0	1013.0	1277.0	1672.0	2250.0	2379.0	2344.0
62.5°	18202.1	14664.1	5506.0	1136.0	916.0	1035.0	1310.0	1805.0	2233.0	2248.0	2198.0
65°	17640.1	13991.1	4444.0	1020.0	889.0	1050.0	1337.0	1840.0	2051.0	2003.0	1978.0
67.5°	16528.1	12488.1	3428.0	914.0	854.0	1047.0	1417.0	1790.0	1982.0	1947.0	1915.0
70°	14948.1	10780.1	2380.0	805.0	795.0	1028.0	1397.0	1807.0	1949.0	1895.0	1852.0
72.5°	12488.1	8457.1	1514.0	716.0	707.0	983.0	1347.0	1796.0	1927.0	1903.0	1844.0
75°	9403.1	5903.0	962.0	619.0	629.0	901.0	1267.0	1737.0	1916.0	1841.0	1728.0
77.5°	5920.0	2914.0	748.0	526.0	541.0	777.0	1095.0	1517.0	1839.0	1794.0	1649.0
80°	2239.0	1183.0	585.0	427.0	440.0	604.0	898.0	1248.0	1693.0	1767.0	1705.0
82.5°	1031.0	740.0	439.0	343.0	348.0	440.0	670.0	924.0	1433.0	1622.0	1777.0
85°	602.0	485.0	293.0	229.0	238.0	260.0	377.0	564.0	929.0	1237.0	1384.0
87.5°	205.0	169.0	114.0	97.0	94.0	107.0	91.0	185.0	276.0	486.0	555.0
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)