

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: P510669

Luminaire Tested: **CTN-CA6-230-740-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510669
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-CA6-230-740-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34525 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

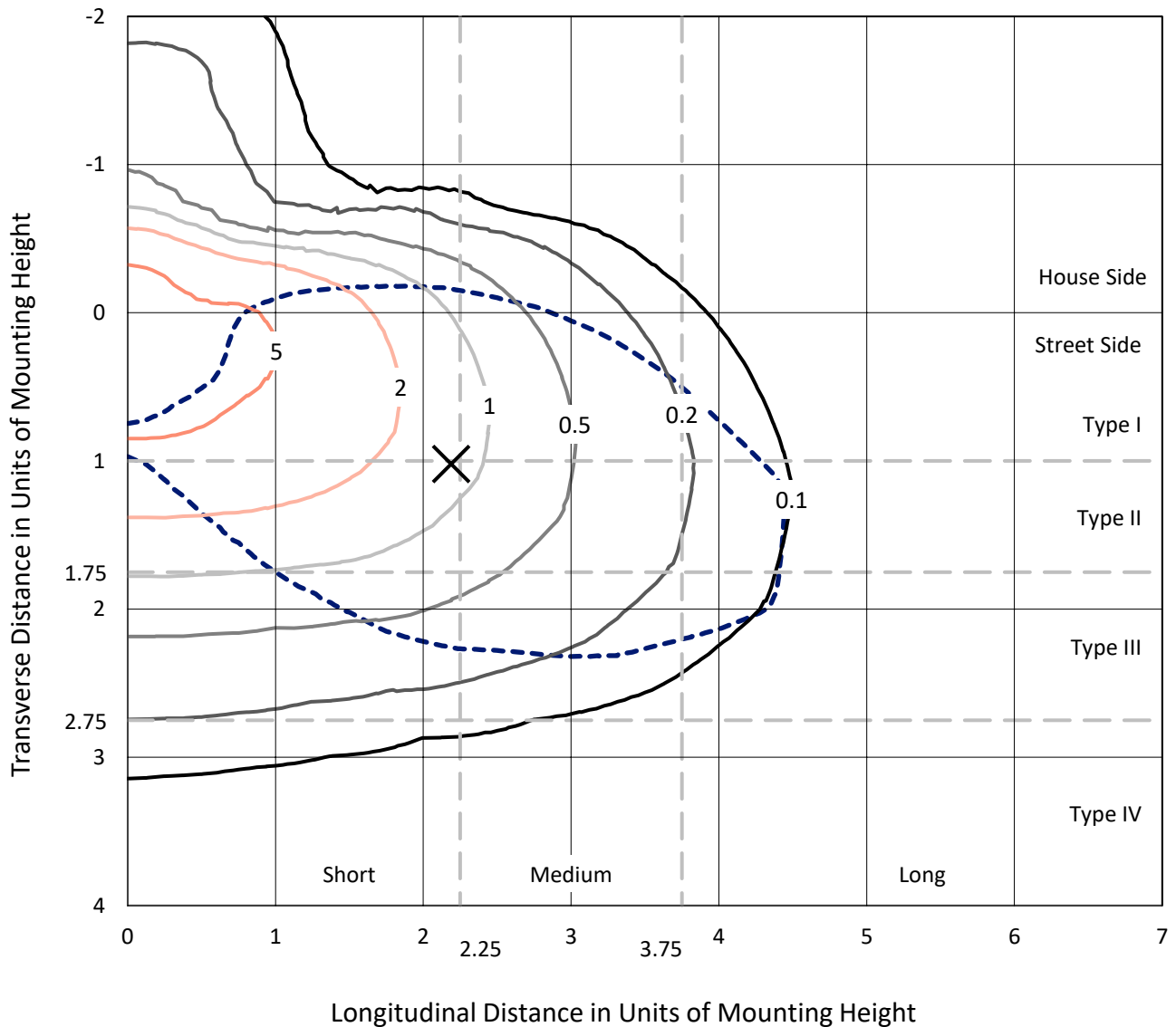
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

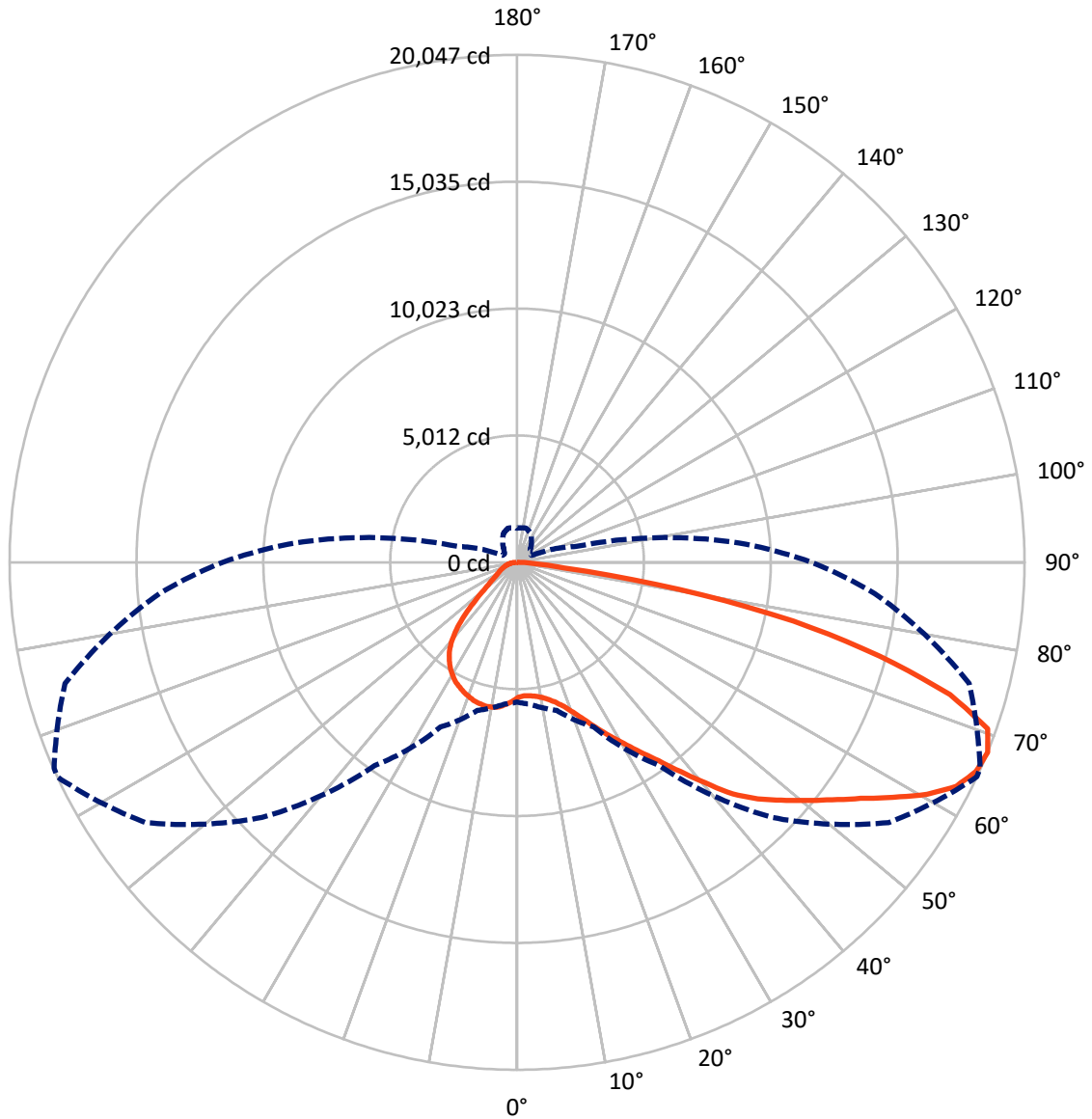
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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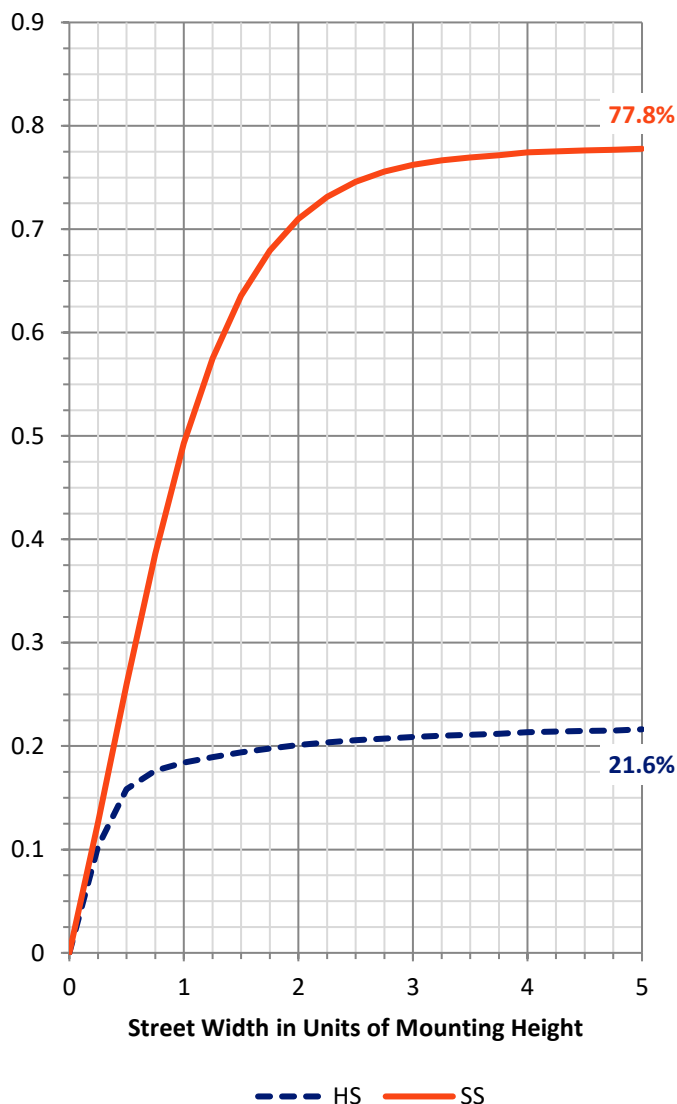
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7626.1	0.0	7626.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	26898.9	0.0	26898.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	34525.0	0.0	34525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.3	1.5
10°-20°	1660.1	4.8
20°-30°	2873.8	8.3
30°-40°	4222.7	12.2
40°-50°	5707.5	16.5
50°-60°	7018.6	20.3
60°-70°	7520.8	21.8
70°-80°	4435.7	12.8
80°-90°	554.5	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°	34525.0	100.0
0°-180°	34525.0	100.0

Coefficient of Utilization



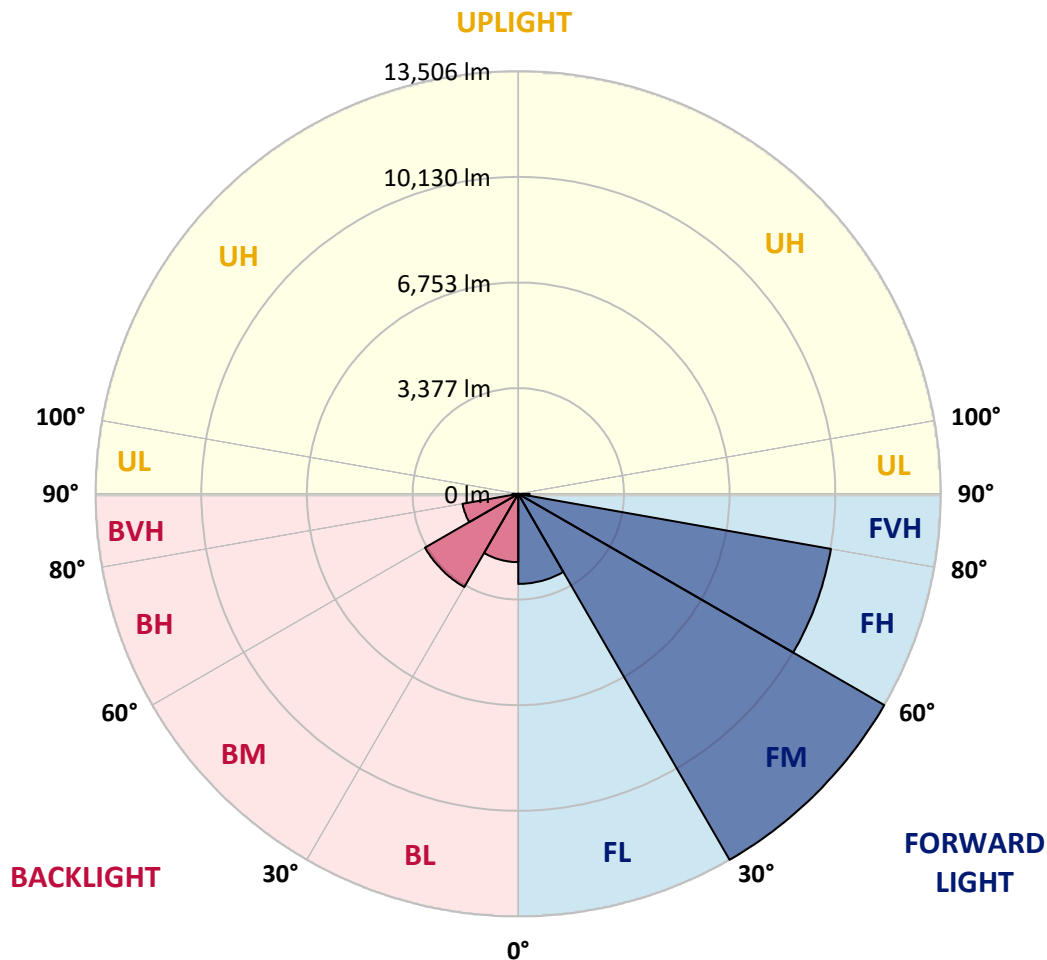
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2880.8	8.3			
FM (30°-60°)	13506.4	39.1			
FH (60°-80°)	10148.0	29.4			G4/12000
FVH (80°-90°)	363.6	1.1			G3/500
BL (0°-30°)	2184.3	6.3	B3/2500		
BM (30°-60°)	3442.4	10.0	B3/5000		
BH (60°-80°)	1808.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	190.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5332.8	5332.8	5332.8	5332.8	5332.8	5332.8	5332.8	5332.8	5332.8	5332.8	5332.8
2.5°	5232.1	5222.3	5218.1	5231.4	5241.3	5252.6	5268.7	5284.2	5286.3	5306.8	5333.5
5°	5295.5	5287.0	5277.9	5275.8	5272.3	5271.6	5275.8	5293.4	5297.6	5317.3	5375.0
7.5°	5436.3	5427.8	5410.9	5404.6	5385.6	5351.8	5335.6	5344.8	5346.9	5370.8	5442.6
10°	5665.8	5639.7	5619.3	5598.2	5538.3	5484.8	5445.4	5428.5	5425.0	5448.2	5531.3
12.5°	5939.6	5917.8	5895.2	5839.6	5763.6	5667.2	5597.5	5558.8	5555.9	5575.7	5638.3
15°	6228.9	6228.9	6213.4	6147.2	6072.6	5912.8	5805.1	5740.4	5744.6	5760.1	5788.9
17.5°	6602.7	6571.7	6564.6	6489.3	6406.3	6260.6	6089.5	5986.0	5991.0	5998.0	5976.2
20°	6982.8	6973.6	6963.1	6913.1	6837.8	6650.5	6458.4	6322.5	6323.2	6297.9	6200.7
22.5°	7485.4	7455.1	7462.8	7406.5	7304.4	7112.3	6891.3	6730.1	6740.6	6704.0	6528.0
25°	7984.4	7954.2	7938.0	7900.0	7812.0	7629.7	7367.1	7219.3	7206.6	7140.4	6884.9
27.5°	8482.8	8465.2	8478.6	8432.8	8361.0	8157.6	7916.8	7752.8	7761.3	7715.5	7334.7
30°	8998.8	8979.0	9037.5	8963.6	8919.2	8721.4	8490.5	8297.7	8304.7	8321.6	7894.3
32.5°	9388.0	9411.2	9513.3	9504.9	9496.4	9276.1	9033.2	8926.3	8936.8	8995.9	8558.8
35°	9763.9	9766.0	9909.6	10018.0	10063.8	9879.3	9627.3	9623.8	9692.8	9873.0	9485.2
37.5°	10075.7	10068.7	10260.2	10428.4	10553.7	10410.8	10272.1	10488.2	10550.9	10924.6	10417.8
40°	10246.1	10260.9	10507.2	10717.0	10963.4	10895.8	10910.6	11463.1	11617.3	11944.6	11115.4
42.5°	10126.4	10171.5	10555.1	10983.1	11354.7	11444.8	11741.9	12516.2	12581.6	12640.8	11801.7
45°	9925.8	9973.0	10398.1	11089.4	11677.8	12058.6	12569.0	13326.4	13398.2	13332.0	12372.6
47.5°	9716.7	9765.3	10239.0	11046.4	11945.3	12675.3	13304.6	14043.0	14134.5	13929.6	12921.6
50°	9451.4	9526.7	10044.8	10955.6	12162.1	13340.5	14000.7	14780.7	14822.9	14527.2	13337.6
52.5°	9124.8	9207.8	9768.1	10800.1	12331.8	13805.0	14705.3	15581.0	15576.8	15225.5	13813.5
55°	8781.2	8856.6	9433.8	10555.1	12426.8	14162.6	15268.5	16463.0	16513.7	16219.4	14244.3
57.5°	8341.3	8409.6	9038.9	10225.7	12328.2	14466.0	16180.7	17511.1	17536.4	16911.4	14587.1
60°	7758.5	7859.1	8491.2	9806.8	12045.3	14817.3	17185.9	18613.4	18644.4	17592.1	14807.4
62.5°	7118.6	7158.7	7802.8	9162.1	11633.5	15088.3	17882.8	19475.7	19430.7	18124.2	14873.6
65°	6338.7	6370.4	6927.9	8332.9	10868.3	14939.7	18132.7	19919.2	19863.6	18458.6	14670.1
67.5°	5522.2	5620.0	6057.8	7182.7	9800.5	14254.1	17921.5	20046.6	20018.4	18483.9	14184.4
70°	4462.1	4496.6	4892.2	5851.6	8177.3	12881.5	17217.6	19720.0	19698.1	17918.0	13192.6
72.5°	3146.5	3112.7	3304.8	4057.3	5906.5	10246.8	14700.4	17884.9	17921.5	16028.7	11488.5
75°	1670.4	1735.1	2034.3	2484.1	3348.5	6587.2	11720.1	14801.8	14789.1	13403.1	9081.1
77.5°	889.7	888.3	1093.9	1286.0	1639.4	3026.8	7730.3	11162.6	11224.5	10384.7	6235.2
80°	427.3	443.5	456.1	523.0	817.2	1398.7	3233.8	6473.1	6895.5	6193.7	2962.0
82.5°	342.1	343.5	344.9	330.1	337.9	569.5	1245.9	1873.1	1940.7	1559.9	955.2
85°	253.4	237.9	235.8	199.9	226.0	342.1	628.6	799.6	760.2	739.8	539.2
87.5°	102.1	95.7	92.9	87.3	87.3	128.8	221.7	289.3	288.6	263.3	180.9
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°	5332.8	5332.8	5332.8	5332.8	5332.8	5332.8	5332.8	5332.8	5332.8	5332.8	5332.8
2.5°	5354.6	5380.0	5439.1	5489.8	5508.8	5555.2	5598.9	5624.2	5641.8	5652.4	5700.2
5°	5410.2	5460.9	5555.2	5626.3	5695.3	5781.2	5836.8	5872.0	5891.7	5903.0	5937.5
7.5°	5495.4	5546.8	5646.7	5755.9	5819.2	5889.6	5925.5	5950.8	5963.5	5960.0	5987.4
10°	5571.4	5622.1	5722.1	5805.8	5841.7	5881.9	5900.9	5906.5	5907.2	5910.0	5937.5
12.5°	5674.9	5705.9	5759.4	5814.3	5806.5	5807.9	5824.1	5817.1	5800.9	5798.1	5816.4
15°	5786.1	5786.8	5791.0	5779.1	5730.5	5709.4	5686.9	5667.9	5623.5	5620.7	5649.6
17.5°	5925.5	5892.4	5815.7	5734.0	5618.6	5539.0	5458.8	5425.7	5371.5	5361.0	5375.0
20°	6105.0	6036.0	5849.5	5646.7	5430.6	5288.5	5191.3	5093.5	5018.2	4999.9	5013.2
22.5°	6362.6	6226.8	5892.4	5553.8	5219.5	4976.6	4788.0	4670.4	4543.7	4479.0	4485.3
25°	6673.7	6461.2	5967.0	5436.3	4971.0	4620.4	4314.2	4078.4	3935.5	3840.5	3865.9
27.5°	7081.3	6789.2	6056.4	5320.1	4662.0	4165.0	3720.9	3401.3	3255.6	3210.5	3181.0
30°	7553.6	7185.5	6150.7	5148.4	4328.3	3601.2	3032.4	2766.4	2599.5	2572.8	2550.3
32.5°	8185.7	7684.6	6327.4	4961.8	3929.9	3037.4	2420.0	2113.8	2075.8	2054.0	2049.1
35°	9000.9	8338.5	6512.6	4719.7	3410.4	2376.4	1830.9	1665.4	1647.1	1671.1	1673.2
37.5°	9866.0	9048.0	6734.3	4446.6	2812.8	1773.1	1400.8	1286.0	1306.5	1381.1	1398.0
40°	10451.6	9515.4	6935.6	4075.6	2074.4	1288.2	1019.3	994.6	1107.2	1203.0	1222.7
42.5°	11013.3	9869.5	7017.3	3585.0	1479.6	917.2	822.9	907.3	1065.0	1169.9	1184.0
45°	11492.7	10281.3	6811.7	2996.5	1003.1	766.6	788.4	905.2	1080.5	1196.6	1207.2
47.5°	11948.8	10617.7	6530.9	2360.9	791.2	737.7	787.7	924.2	1115.0	1224.8	1231.1
50°	12384.5	10874.0	6051.5	1796.4	741.2	724.3	794.0	953.8	1134.0	1203.0	1200.2
52.5°	12707.6	11006.3	5541.2	1450.0	721.5	713.8	810.9	991.1	1137.5	1179.0	1176.2
55°	12944.9	10981.0	5206.1	1187.5	705.3	709.5	838.4	1019.3	1171.3	1233.9	1231.8
57.5°	12966.7	10866.2	4825.3	1003.1	685.6	708.8	867.9	1058.7	1340.2	1455.7	1420.5
60°	12940.6	10676.2	4445.2	880.6	663.8	713.1	898.9	1176.9	1583.8	1674.6	1650.0
62.5°	12812.5	10322.1	3875.7	799.6	644.8	728.5	922.1	1270.6	1571.8	1582.4	1547.2
65°	12416.9	9848.4	3128.2	718.0	625.8	739.1	941.1	1295.2	1443.7	1409.9	1392.3
67.5°	11634.2	8790.4	2413.0	643.4	601.1	737.0	997.4	1260.0	1395.1	1370.5	1348.0
70°	10522.0	7588.1	1675.3	566.6	559.6	723.6	983.4	1272.0	1371.9	1333.9	1303.6
72.5°	8790.4	5952.9	1065.7	504.0	497.7	691.9	948.2	1264.2	1356.4	1339.5	1298.0
75°	6618.8	4155.2	677.2	435.7	442.8	634.2	891.9	1222.7	1348.7	1295.9	1216.4
77.5°	4167.1	2051.2	526.5	370.3	380.8	546.9	770.8	1067.8	1294.5	1262.8	1160.7
80°	1576.0	832.7	411.8	300.6	309.7	425.2	632.1	878.5	1191.7	1243.8	1200.2
82.5°	725.7	520.9	309.0	241.4	245.0	309.7	471.6	650.4	1008.7	1141.7	1250.8
85°	423.8	341.4	206.2	161.2	167.5	183.0	265.4	397.0	653.9	870.7	974.2
87.5°	144.3	119.0	80.2	68.3	66.2	75.3	64.1	130.2	194.3	342.1	390.7
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)