

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: P591140

Luminaire Tested: **CTN-CA10-760-722-U-T4-SSS-HM-EX120**

Issue Date: 1/19/2022

Test Information

Test Method: LM-79-08
Report Number: P591140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2201-495-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-760-722-U-T4-SSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE, 120D FIELD INSTALLED SHIELD ON STREET SIDE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47115 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 2.08' x H: 1')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

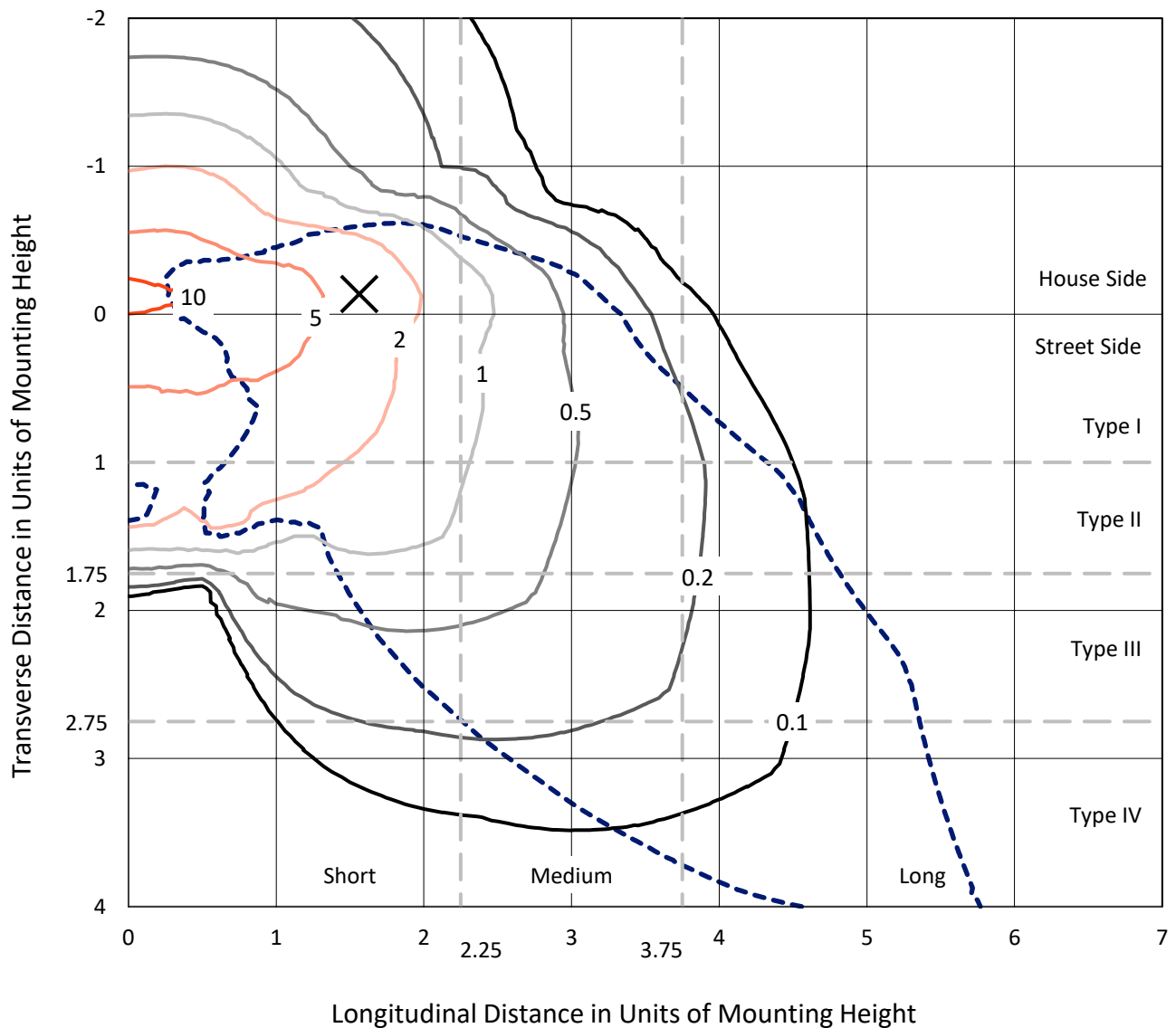
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

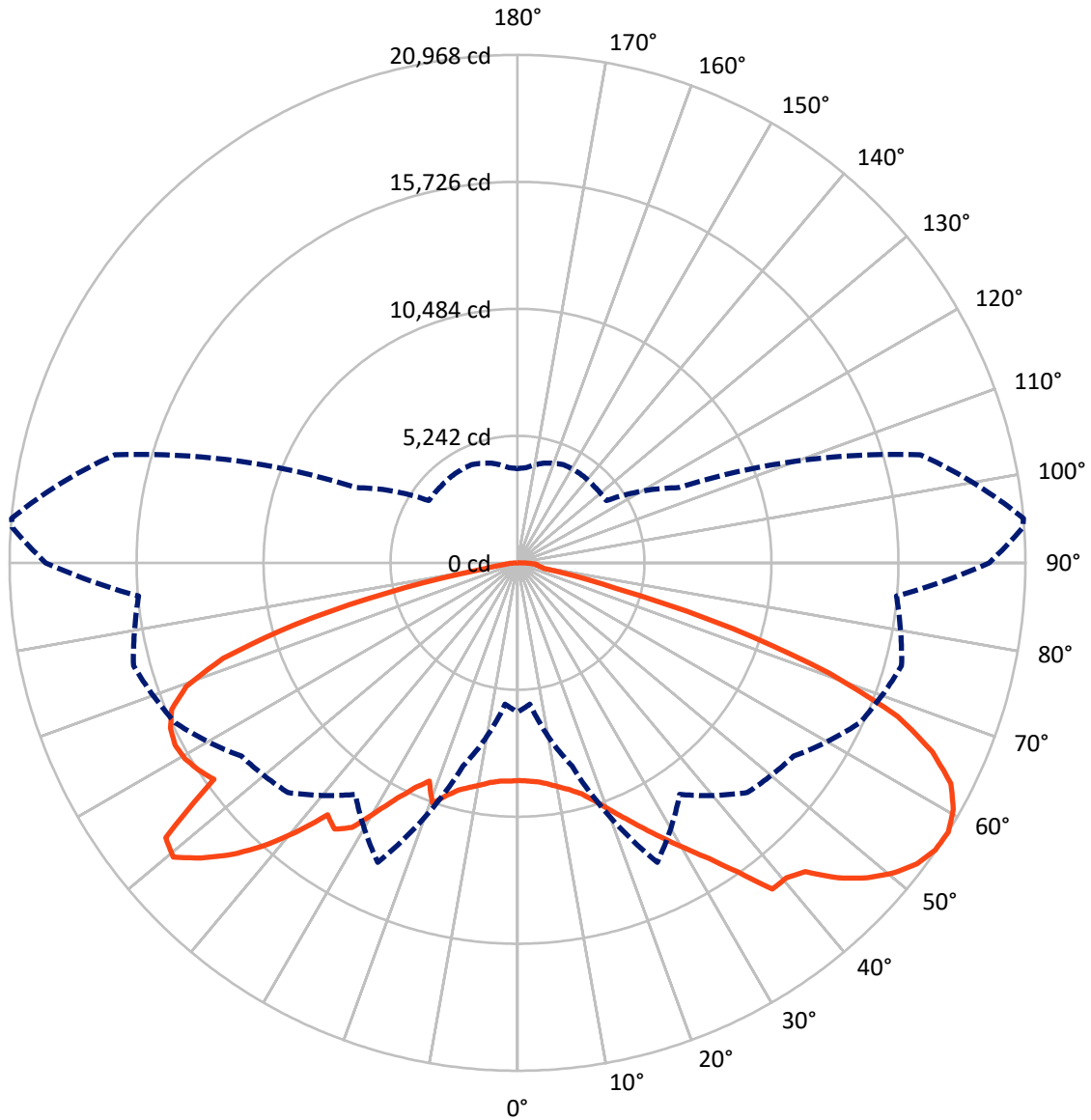
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 95-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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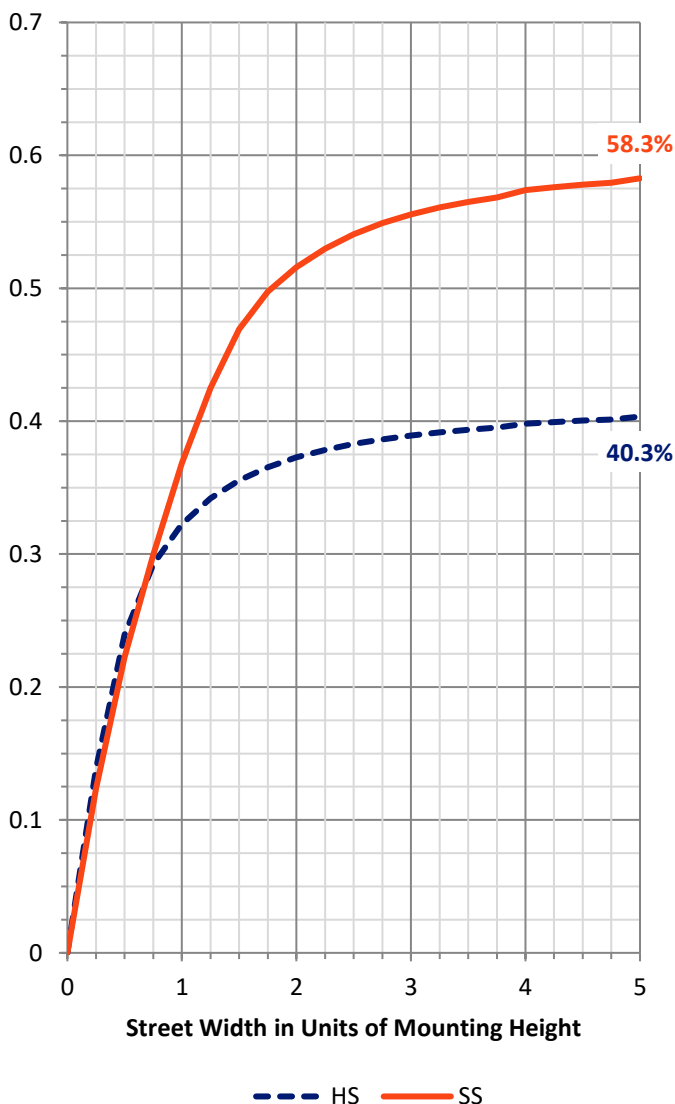
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19405.2	0.0	19405.2
	% Fixture	41.2	0.0	41.2
Street Side	Lumens	27709.8	0.0	27709.8
	% Fixture	58.8	0.0	58.8
Total	Lumens	47115.0	0.0	47115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.8	1.9
10°-20°	2684.4	5.7
20°-30°	4241.8	9.0
30°-40°	5861.4	12.4
40°-50°	7903.2	16.8
50°-60°	9309.8	19.8
60°-70°	8317.1	17.7
70°-80°	6210.1	13.2
80°-90°	1709.4	3.6
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°	47115.0	100.0
0°-180°	47115.0	100.0

Coefficient of Utilization

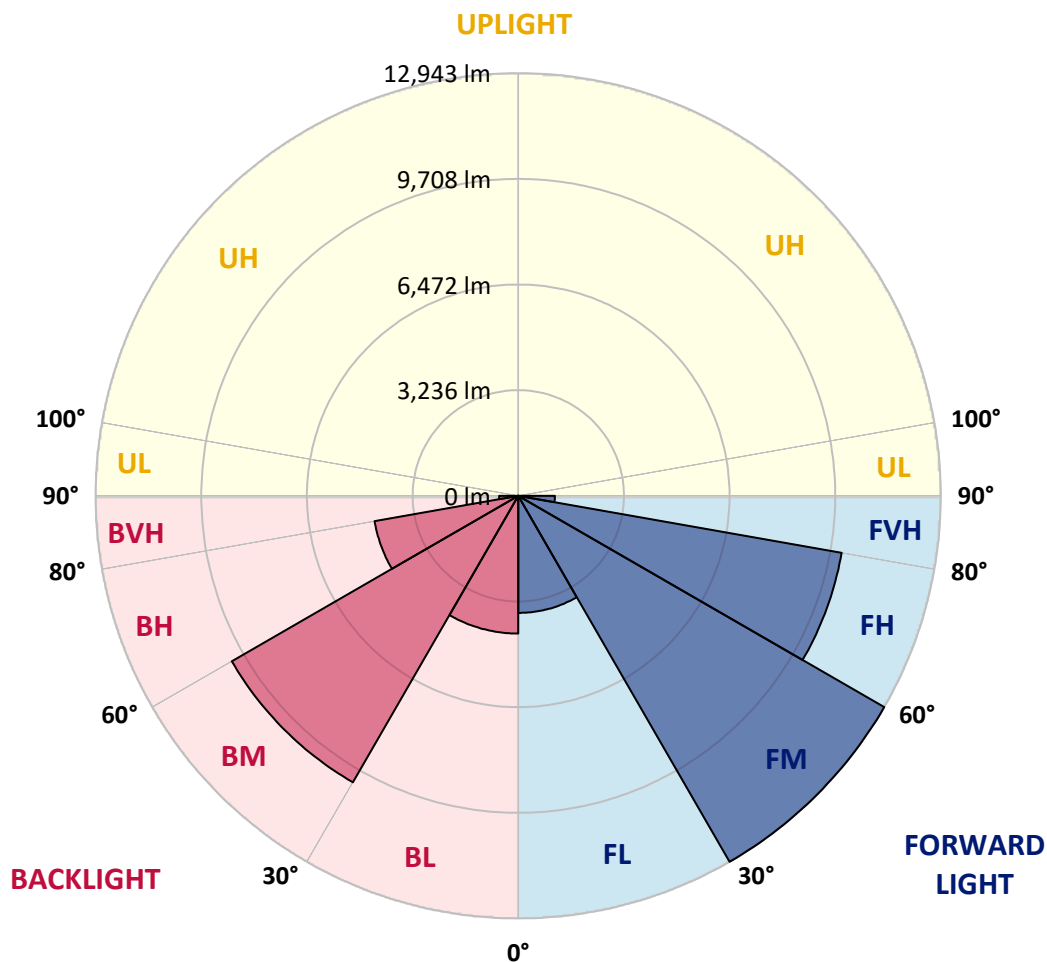


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3586.1	7.6			
FM	(30°-60°)	12943.4	27.5			
FH	(60°-80°)	10057.6	21.3			G4/12000
FVH	(80°-90°)	1122.8	2.4			G5
BL	(0°-30°)	4217.9	9.0	B4/5000		
BM	(30°-60°)	10131.1	21.5	B5		
BH	(60°-80°)	4469.6	9.5	B4/5000		G4/5000
BVH	(80°-90°)	586.6	1.2			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2
2.5°	8871.1	8814.8	8817.4	8895.3	8779.9	8863.1	8852.3	8981.1	8962.3	9013.3	9029.4
5°	8798.7	8750.4	8753.0	8852.3	8774.5	8849.6	8798.7	8916.7	8959.7	9037.5	9053.6
7.5°	8817.4	8774.5	8790.6	8884.5	8787.9	8863.1	8868.4	8978.4	8999.9	9134.1	9155.5
10°	8865.7	8820.1	8830.9	8906.0	8844.3	8978.4	8962.3	9107.2	9112.6	9300.4	9327.3
12.5°	8801.3	8769.1	8769.1	8863.1	8895.3	9029.4	9069.7	9219.9	9252.1	9469.5	9504.4
15°	8686.0	8632.3	8710.1	8849.6	8914.0	9118.0	9193.1	9418.5	9456.1	9681.5	9756.6
17.5°	8487.4	8457.9	8745.0	8787.9	8543.7	8699.4	9018.7	9649.3	9778.1	10043.7	10183.3
20°	7894.4	7561.6	6794.2	6933.7	7685.1	8245.9	8345.2	8648.4	9201.2	10524.0	10741.4
22.5°	5804.1	6091.2	7105.5	7188.7	7164.5	7628.7	8672.5	8965.0	9228.0	9713.7	11157.3
25°	6010.7	5994.6	6491.0	7545.5	7508.0	7596.5	8033.9	9456.1	9719.0	10202.0	11704.7
27.5°	6195.8	6209.2	6171.7	7164.5	7867.5	7958.8	8092.9	9064.3	10336.2	10889.0	12303.1
30°	6563.4	6507.1	6405.1	6402.4	8181.5	8315.7	8543.7	8868.4	10905.1	11782.5	13051.7
32.5°	7183.3	7118.9	6984.7	6772.7	7070.6	8686.0	8999.9	9413.1	10062.5	12880.0	13929.2
35°	7642.1	7596.5	7505.3	7357.7	7118.9	8871.1	9445.3	9992.7	10851.4	13336.2	15080.4
37.5°	8208.3	8143.9	8039.3	7856.8	7677.0	7604.6	9874.7	10650.2	11951.6	13027.6	15329.9
40°	8849.6	8812.1	8621.6	8385.4	8186.9	7985.6	10169.8	11508.8	13365.7	14412.2	15101.8
42.5°	9332.6	9303.1	9190.4	8999.9	8806.7	8677.9	9013.3	12563.4	14905.9	15751.2	16258.3
45°	9753.9	9721.7	9721.7	9670.7	9617.1	9627.8	9772.7	13320.1	16368.4	16894.3	17353.1
47.5°	10078.6	10022.3	9796.9	9842.5	9920.3	10153.7	10593.8	11581.3	17546.3	17865.7	18273.5
50°	10870.2	10784.3	10054.5	10223.5	10475.7	10851.4	11417.6	12660.0	16384.5	18694.8	19014.1
52.5°	11600.1	11202.9	8304.9	10784.3	11068.8	11624.2	12295.0	13827.2	15080.4	18426.5	19580.3
55°	10349.6	9944.4	8347.9	11814.7	11766.4	12466.8	13121.5	14785.2	15788.8	15391.6	19438.1
57.5°	6160.9	5855.0	8686.0	13644.8	11664.5	13408.6	13913.1	15603.6	16411.3	15700.2	19475.7
60°	3190.5	3354.2	3225.4	8074.2	10043.7	13821.9	14731.5	16392.5	16832.6	15931.0	19499.8
62.5°	429.3	308.6	128.8	5906.0	7137.7	11516.9	15759.2	17143.8	17141.2	16008.8	19330.8
65°	26.8	29.5	59.0	5876.5	7872.9	13663.6	17460.5	17750.3	17294.1	15871.9	18767.3
67.5°	10.7	13.4	53.7	5836.3	8495.4	14363.9	19462.2	17943.5	17310.2	15504.3	17530.2
70°	10.7	13.4	53.7	5436.4	8919.4	14487.3	19800.3	17871.0	17111.6	14600.0	15230.6
72.5°	13.4	16.1	48.3	4722.7	8661.8	14151.9	19247.6	17723.4	16400.6	12780.7	11825.5
75°	13.4	16.1	48.3	3815.7	7663.6	13419.4	18810.2	16489.1	14377.3	9550.0	7669.0
77.5°	10.7	13.4	48.3	2978.5	6389.0	11892.5	17063.3	14337.1	11369.3	5557.2	3029.5
80°	10.7	13.4	48.3	2074.2	4867.6	9748.6	13899.7	11165.4	6394.4	1588.5	853.3
82.5°	10.7	13.4	45.6	1293.4	3442.7	7169.9	9499.0	5146.6	1371.2	619.9	665.5
85°	10.7	10.7	34.9	633.3	2200.3	4762.9	4733.4	861.4	544.7	402.5	504.5
87.5°	5.4	8.1	18.8	289.8	1229.0	2511.6	1886.4	330.1	233.5	163.7	281.8
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):

	94°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8989.2	<i>8989.2</i>	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2	8989.2
2.5°	9034.8	<i>9021.4</i>	9058.9	9155.5	9150.2	9222.6	9166.3	9276.3	9295.1	9270.9	9308.5
5°	9083.1	<i>9088.5</i>	9190.4	9292.4	9254.8	9372.9	9397.0	9560.7	9566.1	9544.6	9592.9
7.5°	9203.8	<i>9222.6</i>	9324.6	9445.3	9499.0	9598.3	9584.9	9796.9	9778.1	9767.3	9823.7
10°	9372.9	<i>9407.8</i>	9517.8	9708.3	9684.2	9837.1	9767.3	9909.6	9904.2	9882.7	9944.4
12.5°	9579.5	<i>9614.4</i>	9753.9	9936.4	9939.1	9949.8	9893.5	9965.9	9941.8	9890.8	9939.1
15°	9858.6	<i>9898.8</i>	10089.3	10223.5	10108.1	10078.6	9971.3	9931.0	9839.8	9705.6	9745.9
17.5°	10298.6	<i>10330.8</i>	10545.5	10620.6	10422.1	10304.0	9998.1	9770.0	9512.4	9324.6	9359.5
20°	10854.1	<i>10883.6</i>	11058.0	11039.2	10773.6	10483.8	10008.8	9622.4	9142.1	8774.5	8763.8
22.5°	11465.9	<i>11484.7</i>	11651.0	11484.7	11012.4	10591.1	9987.4	9394.4	8586.7	8111.7	8060.7
25°	12139.4	<i>12155.5</i>	12152.8	11782.5	11149.3	10529.4	9788.8	9013.3	7977.6	7470.4	7416.7
27.5°	12893.4	<i>12896.1</i>	12600.9	12013.3	11090.2	10301.3	9405.1	8329.1	7419.4	6979.4	6939.1
30°	13695.8	<i>13690.4</i>	13011.5	12034.8	10862.1	9869.3	8812.1	7682.4	6917.6	6525.9	6469.5
32.5°	14610.8	<i>14565.2</i>	13376.4	11959.6	10446.2	9249.5	8047.3	7140.4	6523.2	6075.1	5991.9
35°	15783.4	<i>15670.7</i>	13687.7	11699.3	9829.1	8412.3	7338.9	6668.1	6142.2	5686.0	5602.8
37.5°	17235.1	<i>17090.2</i>	14176.1	11331.7	9118.0	7720.0	6818.4	6348.8	5868.5	5347.9	5240.6
40°	16816.5	<i>17095.5</i>	14758.4	10934.6	8431.0	7167.2	6512.5	6195.8	5702.1	5125.2	5023.2
42.5°	17463.2	<i>17428.3</i>	15555.3	10465.0	7770.9	6735.2	6389.0	6150.2	5613.5	5028.6	4910.5
45°	18563.3	<i>18555.3</i>	16414.0	10008.8	7126.9	6389.0	6295.1	6026.8	5487.4	4907.8	4779.0
47.5°	19456.9	<i>19430.0</i>	17235.1	9507.1	6531.2	6118.0	6104.6	5777.2	5262.0	4722.7	4604.6
50°	20079.4	<i>20119.7</i>	17691.2	9024.1	5967.7	5838.9	5788.0	5425.7	4945.4	4500.0	4408.7
52.5°	20570.5	<i>20645.6</i>	17889.8	8978.4	5474.0	5479.4	5390.8	5060.8	4685.1	4325.5	4228.9
55°	20812.0	<i>20927.3</i>	17685.9	8683.3	4991.0	5023.2	4937.3	4728.0	4505.3	4175.3	4105.5
57.5°	<i>20911.2</i>	<i>20967.6</i>	<i>17213.6</i>	<i>7344.3</i>	<i>4473.1</i>	<i>4467.8</i>	<i>4494.6</i>	<i>4473.1</i>	<i>4263.8</i>	<i>3939.1</i>	<i>3888.2</i>
60°	20742.2	<i>20667.1</i>	16185.9	5581.3	3947.2	3971.3	4143.1	4121.6	3936.5	3689.6	3619.8
62.5°	20221.6	<i>20074.0</i>	14304.9	4127.0	3525.9	3721.8	3904.3	3842.5	3617.1	3391.7	3338.1
65°	19228.8	<i>18812.9</i>	11398.8	3222.7	3324.7	3593.0	3762.0	3670.8	3413.2	3147.6	3115.4
67.5°	17447.1	<i>16926.5</i>	7481.1	2890.0	3238.8	3483.0	3660.1	3507.1	3257.6	2970.5	2924.8
70°	14237.8	<i>13666.2</i>	3542.0	2694.1	3045.6	3287.1	3415.9	3260.3	3005.3	2718.2	2686.0
72.5°	9928.3	<i>9279.0</i>	1907.9	2482.1	2822.9	3032.2	3118.0	2927.5	2704.8	2578.7	2570.6
75°	4948.1	<i>4228.9</i>	1730.8	2264.7	2535.8	2718.2	2863.1	2731.6	2535.8	2305.0	2246.0
77.5°	1317.5	<i>1132.4</i>	1628.8	2023.2	2307.7	2514.3	2597.5	2460.6	2235.2	2039.3	2004.5
80°	915.0	<i>933.8</i>	1521.5	1677.1	2012.5	2197.7	2275.5	2101.1	1988.4	1795.2	1741.5
82.5°	775.5	<i>815.7</i>	1229.0	1263.9	1599.3	1797.8	1934.7	1905.2	1744.2	1588.5	1567.1
85°	727.2	<i>772.8</i>	786.2	874.8	1145.8	1379.2	1615.4	1628.8	1521.5	1322.9	1258.5
87.5°	418.6	<i>413.2</i>	378.4	445.4	627.9	764.8	925.8	882.8	719.1	622.5	609.1
90°	0.0	<i>0.0</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)