

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: P591131

Luminaire Tested: **CTN-CA10-760-722-U-T1-SSS-HM-EX120**

Issue Date: 1/19/2022

Test Information

Test Method: LM-79-08
Report Number: P591131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2201-495-2)
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-T1-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: 50512 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 2.08' x H: 1')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

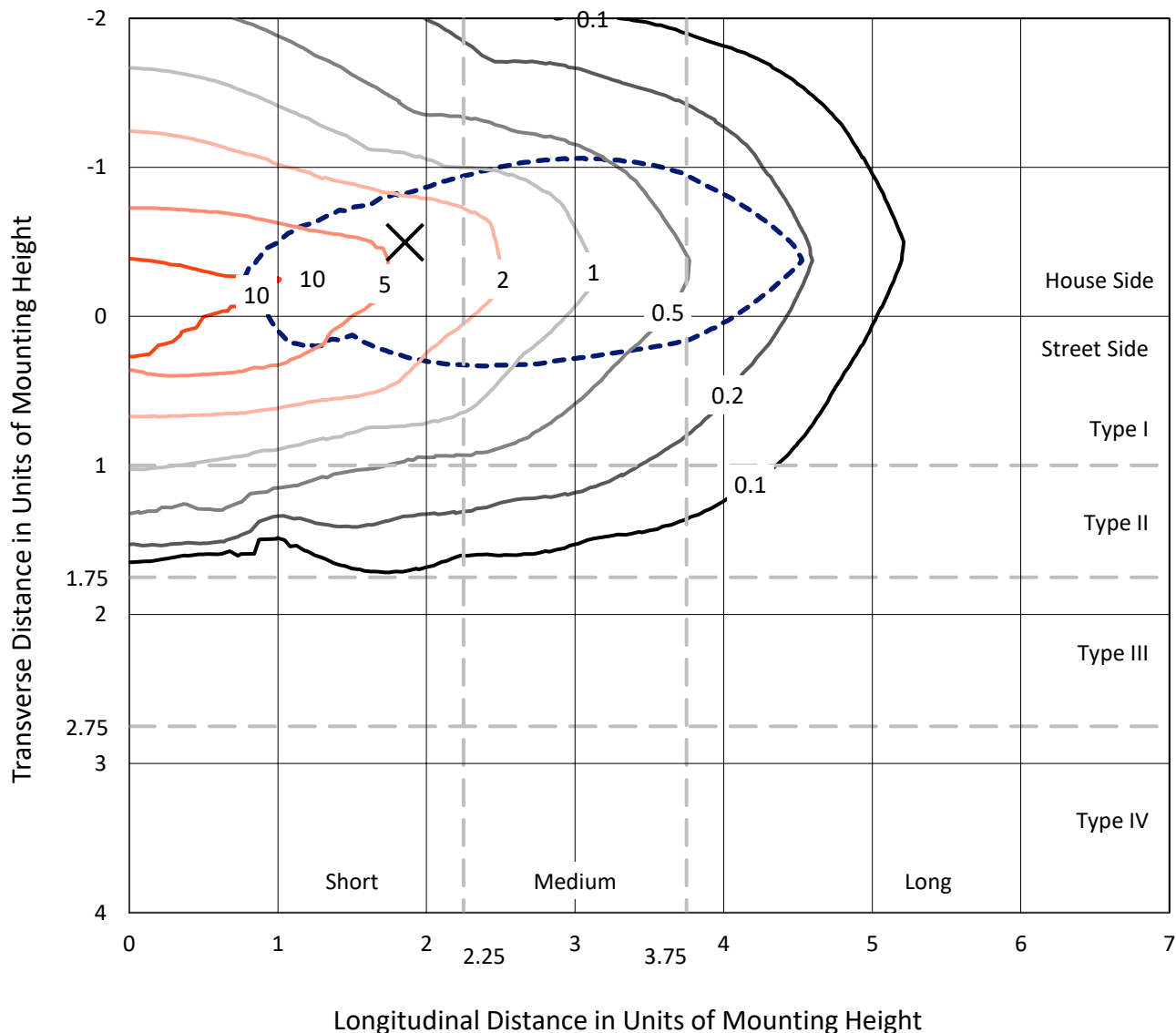
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

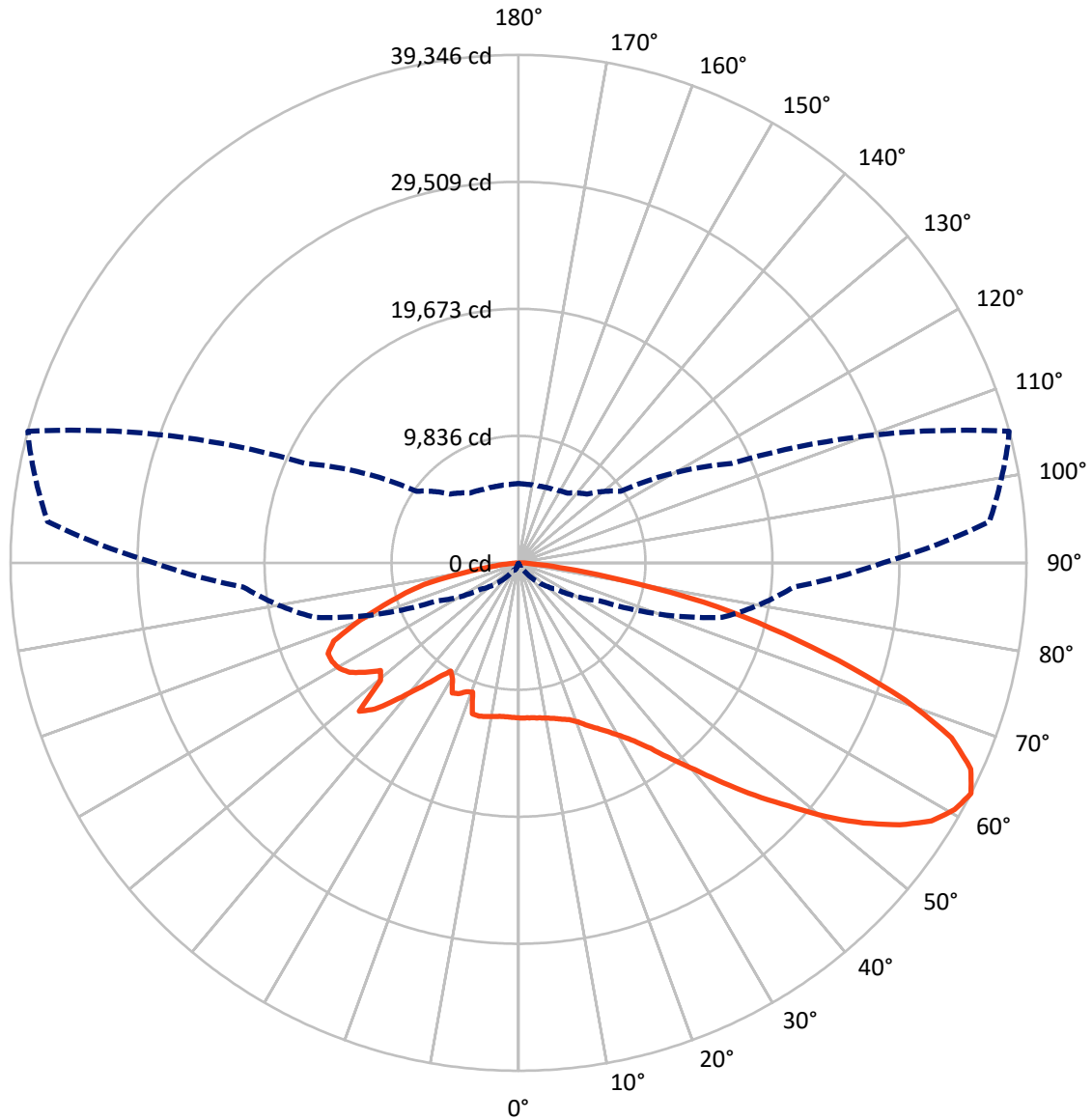
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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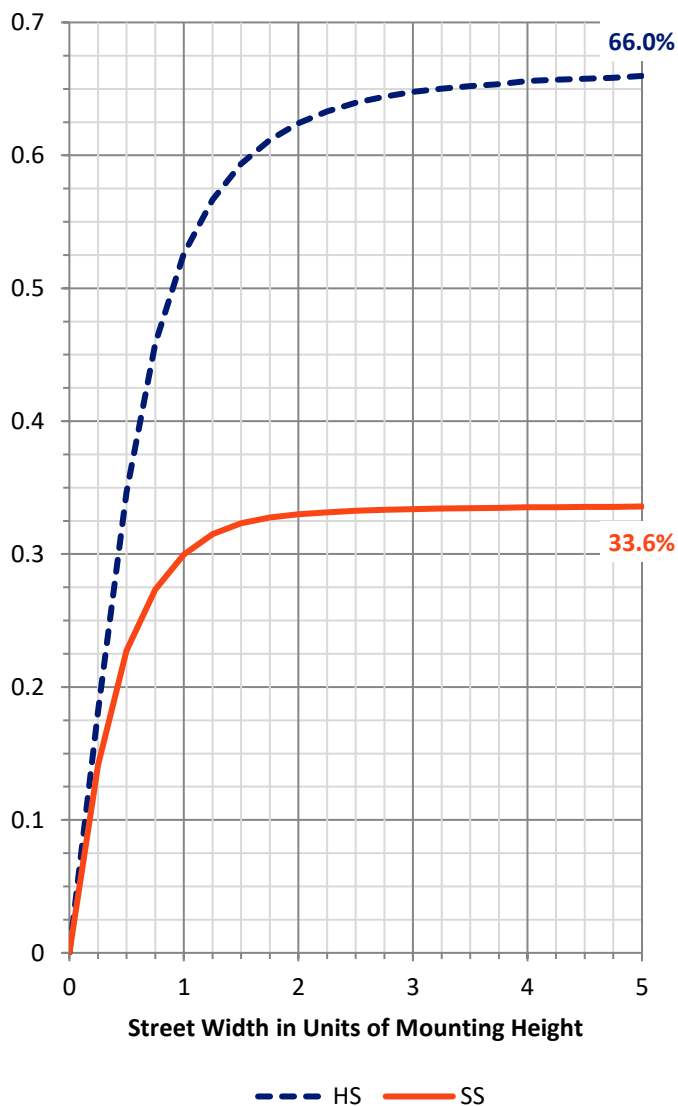
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33610.1	0.0	33610.1
	% Fixture	66.5	0.0	66.5
Street Side	Lumens	16901.9	0.0	16901.9
	% Fixture	33.5	0.0	33.5
Total	Lumens	50512.0	0.0	50512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1146.6	2.3
10°-20°	3238.3	6.4
20°-30°	4563.9	9.0
30°-40°	6200.8	12.3
40°-50°	8435.4	16.7
50°-60°	9993.3	19.8
60°-70°	9799.6	19.4
70°-80°	6180.7	12.2
80°-90°	953.4	1.9
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°	50512.0	100.0
0°-180°	50512.0	100.0

Coefficient of Utilization

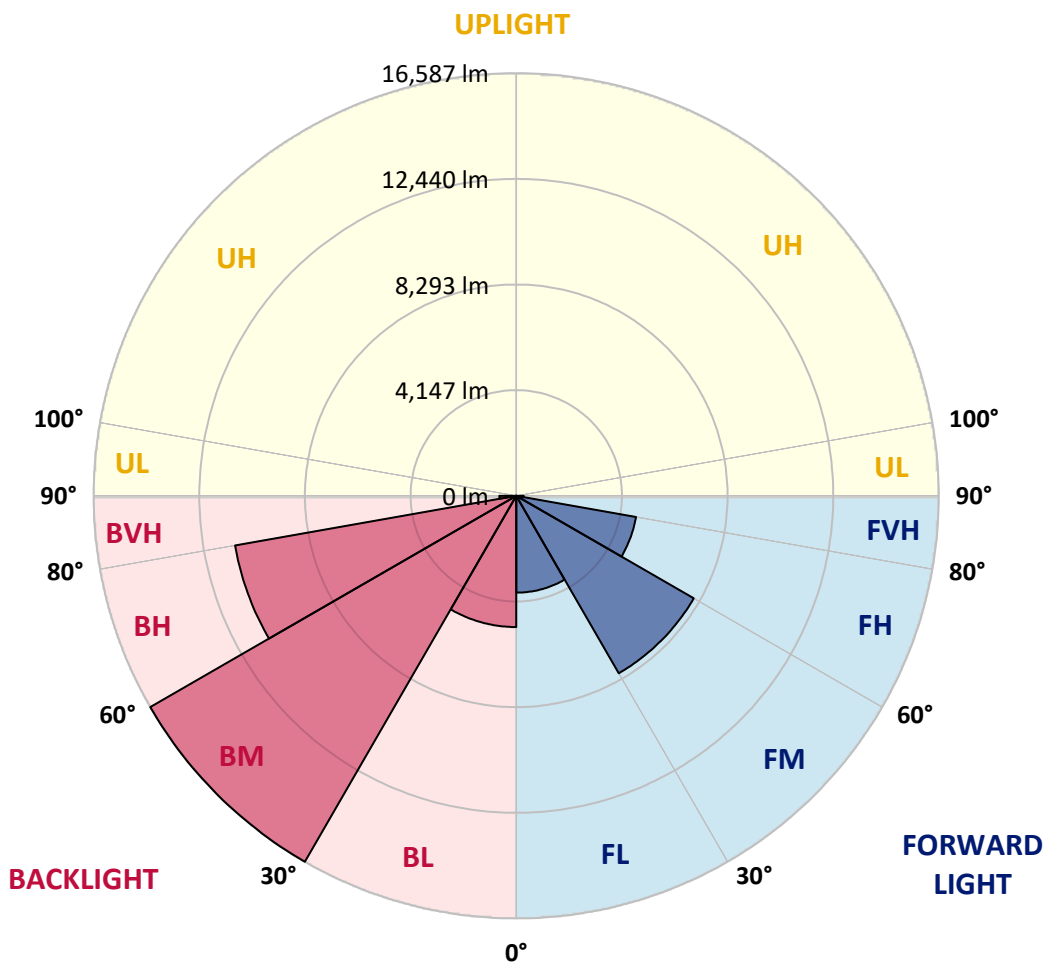


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3799.3	7.5			
FM	(30°-60°)	8042.8	15.9			
FH	(60°-80°)	4772.2	9.4			G2/5000
FVH	(80°-90°)	287.6	0.6			G3/500
BL	(0°-30°)	5149.5	10.2	B5		
BM	(30°-60°)	16586.8	32.8	B5		
BH	(60°-80°)	11208.1	22.2	B5		G5
BVH	(80°-90°)	665.8	1.3			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12016.0	12016.0	12016.0	12016.0	12016.0	12016.0	12016.0	12016.0	12016.0	12016.0	12016.0
2.5°	12024.0	11930.1	11997.2	12099.2	11946.2	12034.8	11887.2	12007.9	11978.4	11986.5	12042.8
5°	11930.1	11830.8	11911.3	12045.5	11895.2	11994.5	11873.8	11975.7	11965.0	12002.6	12048.2
7.5°	11841.6	11747.7	11830.8	11919.4	11841.6	11938.2	11846.9	11973.1	11981.1	12064.3	12101.9
10°	11747.7	11653.7	11734.2	11836.2	11771.8	11892.6	11855.0	12007.9	12067.0	12177.0	12209.2
12.5°	11541.0	11457.9	11524.9	11643.0	11653.7	11830.8	11855.0	12091.1	12163.6	12308.5	12356.8
15°	10298.7	10389.9	10746.8	11090.2	11237.8	11565.2	11745.0	12166.3	12268.2	12474.8	12550.0
17.5°	8331.8	8160.0	7604.6	7749.5	8565.2	9665.4	10081.3	11127.8	12233.3	12684.1	12780.7
20°	4923.9	5275.4	6362.2	6694.9	6995.5	8178.8	9576.8	10199.4	10623.3	12225.3	13097.4
22.5°	4059.9	4084.0	4862.2	6397.1	6735.2	7199.4	8280.8	10330.9	10768.2	11087.6	12058.9
25°	3764.7	3788.9	3923.0	5109.1	6550.0	7086.7	7561.7	9442.7	11141.2	11535.7	12295.1
27.5°	3528.6	3560.8	3684.2	4017.0	6107.3	7054.5	7655.6	8374.7	11307.6	12067.0	12778.1
30°	3351.5	3364.9	3491.0	3813.0	4618.0	7062.6	7792.4	8559.9	10357.7	12740.5	13454.3
32.5°	3190.5	3198.5	3330.0	3644.0	4129.7	6542.0	7999.0	8946.3	9890.8	13293.3	14382.7
35°	3067.1	3061.7	3179.8	3488.3	3971.3	5009.8	8229.8	9410.5	10636.8	12770.0	15767.3
37.5°	2949.0	2940.9	3042.9	3327.3	3831.8	4690.5	7961.5	9968.6	11707.4	13167.1	15654.6
40°	2857.8	2841.7	2927.5	3182.4	3686.9	4610.0	6271.0	10558.9	12882.7	15214.5	16601.8
42.5°	2777.3	2766.5	2839.0	3042.9	3539.3	4513.4	5844.3	10878.3	14345.1	17581.2	19051.7
45°	2656.5	2672.6	2753.1	2949.0	3381.0	4376.5	5887.2	8737.0	15893.4	19634.0	21493.6
47.5°	2605.5	2602.8	2653.8	2839.0	3244.2	4186.0	5857.7	8012.5	16867.5	21783.4	23884.4
50°	2525.0	2511.6	2189.6	2710.2	3104.6	3949.9	5734.3	8221.8	14036.5	23892.5	26079.4
52.5°	2374.8	2111.8	1915.9	2618.9	2962.4	3692.3	5457.9	8313.0	13553.5	23516.8	27965.8
55°	1261.2	1406.1	1813.9	2490.1	2796.0	3461.5	5052.7	8248.6	14597.4	18804.8	25961.3
57.5°	1119.0	1113.6	1153.8	1966.9	1457.1	3209.3	4564.4	7953.4	15584.8	19663.5	26447.0
60°	88.6	91.2	107.3	654.7	772.8	2259.4	4038.4	7588.5	16108.1	20677.8	27625.0
62.5°	42.9	48.3	64.4	585.0	705.7	2055.4	3563.5	6965.9	16328.1	21410.4	28207.3
65°	10.7	13.4	29.5	515.2	614.5	1830.0	3085.8	6236.1	16346.9	21439.9	28676.9
67.5°	8.1	13.4	29.5	466.9	560.8	1631.5	2667.2	5726.2	15547.3	21329.9	28440.7
70°	8.1	13.4	29.5	418.6	507.2	1414.1	2296.9	5227.1	13505.2	20919.3	27638.4
72.5°	8.1	16.1	29.5	367.6	445.4	1199.5	1950.8	4677.1	11334.4	19204.7	25851.3
75°	8.1	16.1	32.2	297.9	381.0	955.3	1602.0	4006.2	9426.6	16652.8	22888.9
77.5°	8.1	16.1	32.2	230.8	308.6	713.8	1212.9	3174.4	7521.4	12281.6	16081.3
80°	8.1	16.1	32.2	163.7	252.2	501.8	882.8	2165.5	4486.5	6456.1	8189.6
82.5°	8.1	16.1	32.2	118.1	182.5	362.3	544.7	1068.0	2141.3	3099.3	3888.2
85°	5.4	13.4	29.5	77.8	96.6	220.0	324.7	475.0	641.3	847.9	1145.8
87.5°	5.4	8.1	18.8	29.5	40.3	77.8	120.8	107.3	120.8	252.2	362.3
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):

	95°	104°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12016.0	12016.0	12016.0	12016.0	12016.0	12016.0	12016.0	12016.0	12016.0	12016.0	12016.0
2.5°	12034.8	12024.0	12026.7	12085.8	12034.8	12045.5	11957.0	12134.1	12118.0	12093.8	12163.6
5°	12048.2	12042.8	12064.3	12115.3	12037.5	12050.9	11967.7	12174.3	12123.3	12115.3	12198.5
7.5°	12115.3	12107.2	12128.7	12152.8	12067.0	12067.0	11994.5	12158.2	12128.7	12075.0	12168.9
10°	12236.0	12206.5	12228.0	12241.4	12109.9	12104.5	11970.4	12163.6	12088.4	12061.6	12182.4
12.5°	12405.1	12338.0	12370.2	12348.7	12174.3	12142.1	11962.3	12088.4	11994.5	11978.4	12088.4
15°	12633.2	12544.6	12568.8	12528.5	12308.5	12214.6	11924.8	11978.4	11828.2	11814.7	11895.2
17.5°	12845.1	12791.5	12778.1	12778.1	12520.5	12287.0	11889.9	11814.7	11616.2	11602.8	11643.0
20°	13228.9	13156.4	13148.4	13084.0	12702.9	12346.0	11833.5	11602.8	11307.6	11240.5	11315.6
22.5°	13352.3	13703.8	13679.7	13395.2	12855.9	12394.3	11718.1	11337.1	10931.9	10803.1	10840.7
25°	13719.9	14248.5	14205.6	13792.4	13011.5	12421.2	11578.6	11044.6	10486.5	10261.1	10269.1
27.5°	14302.2	14841.6	14812.0	14216.3	13204.7	12429.2	11423.0	10736.0	10043.7	9748.6	9772.7
30°	15042.8	15587.5	15544.6	14688.6	13497.2	12445.3	11304.9	10365.7	9638.6	9319.2	9313.9
32.5°	16073.2	16566.9	16440.8	15319.2	13848.7	12512.4	11149.3	10014.2	9268.3	8932.8	8906.0
35°	17629.5	17812.0	17656.4	16070.5	14221.7	12555.3	10899.7	9670.8	8924.8	8594.7	8570.6
37.5°	19733.3	19507.9	19298.6	16915.8	14608.1	12544.6	10583.1	9338.0	8629.6	8315.7	8315.7
40°	19939.9	21456.0	21069.6	17806.6	14956.9	12485.6	10282.6	9013.3	8390.8	8135.9	8176.1
42.5°	20908.6	23841.5	23299.4	18668.0	15209.2	12313.8	9960.6	8718.2	8168.1	7961.5	7977.6
45°	23288.7	26012.3	25695.7	19499.8	15346.0	12010.6	9587.6	8428.4	7918.5	7754.9	7787.1
47.5°	25848.6	28593.7	28129.5	20267.3	15270.9	11562.5	9190.4	8162.7	7658.3	7553.6	7612.6
50°	28269.0	31309.2	30922.8	20806.6	14938.2	10934.6	8766.5	7881.0	7454.3	7371.1	7400.7
52.5°	30643.7	33775.2	33485.4	21099.1	14272.7	10277.2	8374.7	7612.6	7263.8	7159.2	7199.4
55°	32602.6	36112.4	35830.6	21069.6	13271.8	9590.3	7985.6	7322.8	7070.6	6976.7	7008.9
57.5°	34132.1	37931.7	37730.4	20621.5	12107.2	8959.7	7545.6	7038.4	6815.7	6732.5	6759.3
60°	35500.6	39085.5	38825.2	19631.3	10872.9	8264.7	7092.1	6700.3	6515.1	6448.1	6491.0
62.5°	36622.2	39109.7	39345.8	18198.4	9662.7	7529.5	6587.6	6284.4	6150.2	6110.0	6136.8
65°	36909.3	38390.5	38505.9	16427.4	8436.4	6799.6	5981.2	5782.6	5726.2	5702.1	5755.8
67.5°	36512.2	36874.5	36187.5	14930.1	7317.5	5973.1	5326.4	5203.0	5237.9	5243.2	5313.0
70°	35487.2	32817.2	31757.3	13677.0	6273.6	5058.1	4607.3	4567.0	4661.0	4738.8	4789.8
72.5°	32873.6	26943.4	25934.5	11906.0	4945.4	3872.1	3627.9	3756.7	3724.5	3759.4	3850.6
75°	28301.2	20795.9	20170.7	9689.5	3767.4	2814.8	2487.5	2500.9	2541.1	2718.2	2814.8
77.5°	20159.9	14956.9	14677.9	7432.9	2495.5	1655.6	1712.0	1902.5	1958.8	1964.2	2031.3
80°	10682.4	8337.1	7958.8	4379.2	1650.3	1183.4	1288.0	1371.2	1446.3	1524.1	1542.9
82.5°	4813.9	3770.1	3665.4	2176.2	1046.5	912.3	936.5	1078.7	1140.4	1153.8	1167.3
85°	1870.3	1301.4	1239.7	904.3	686.9	617.2	684.3	829.2	888.2	861.4	853.3
87.5°	499.1	305.9	279.1	303.2	322.0	340.8	389.1	442.8	507.2	488.4	472.3
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)