

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: P510579

Luminaire Tested: **CTN-CA10-760-722-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510579
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-CA10-760-722-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86998 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

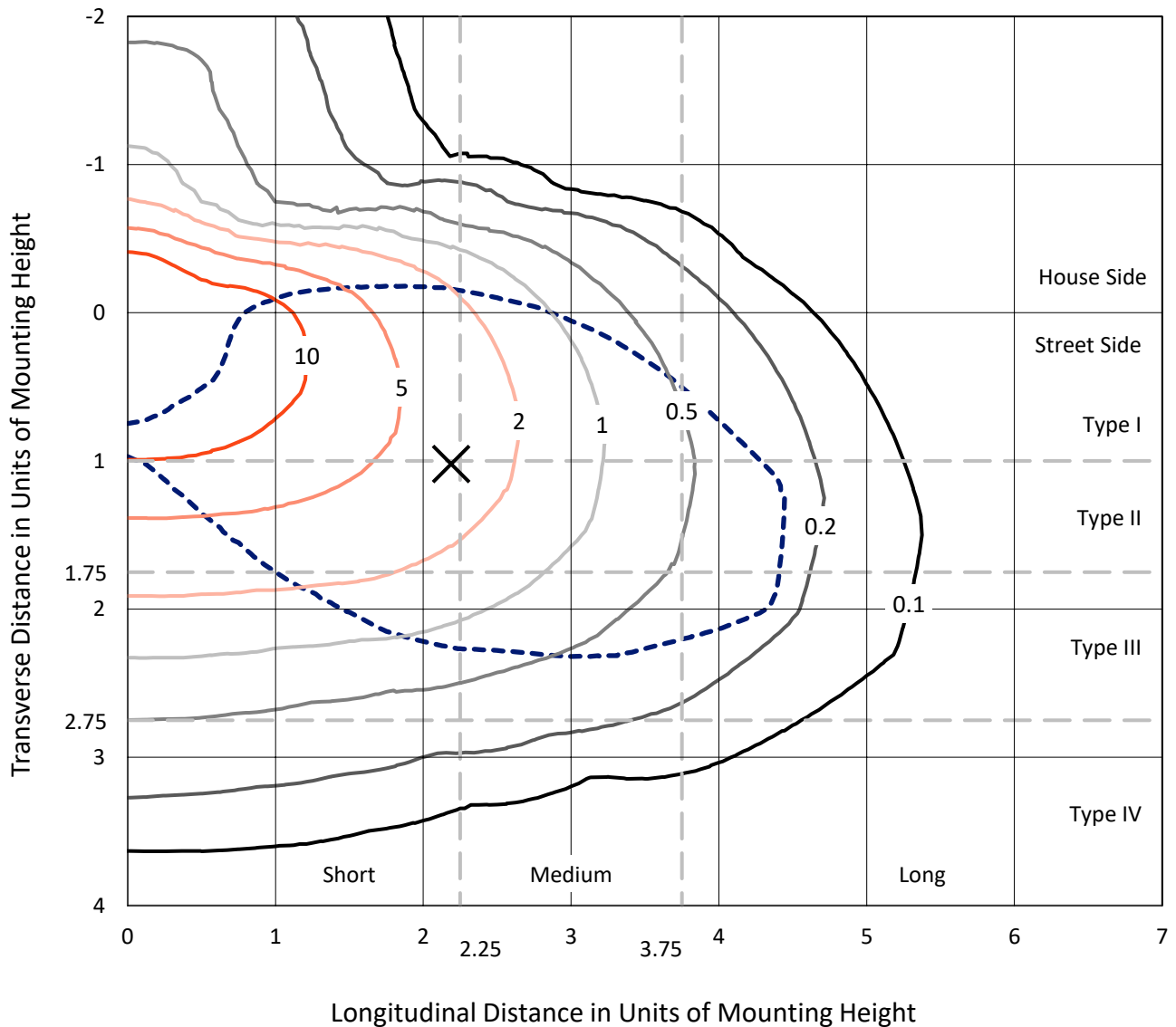
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

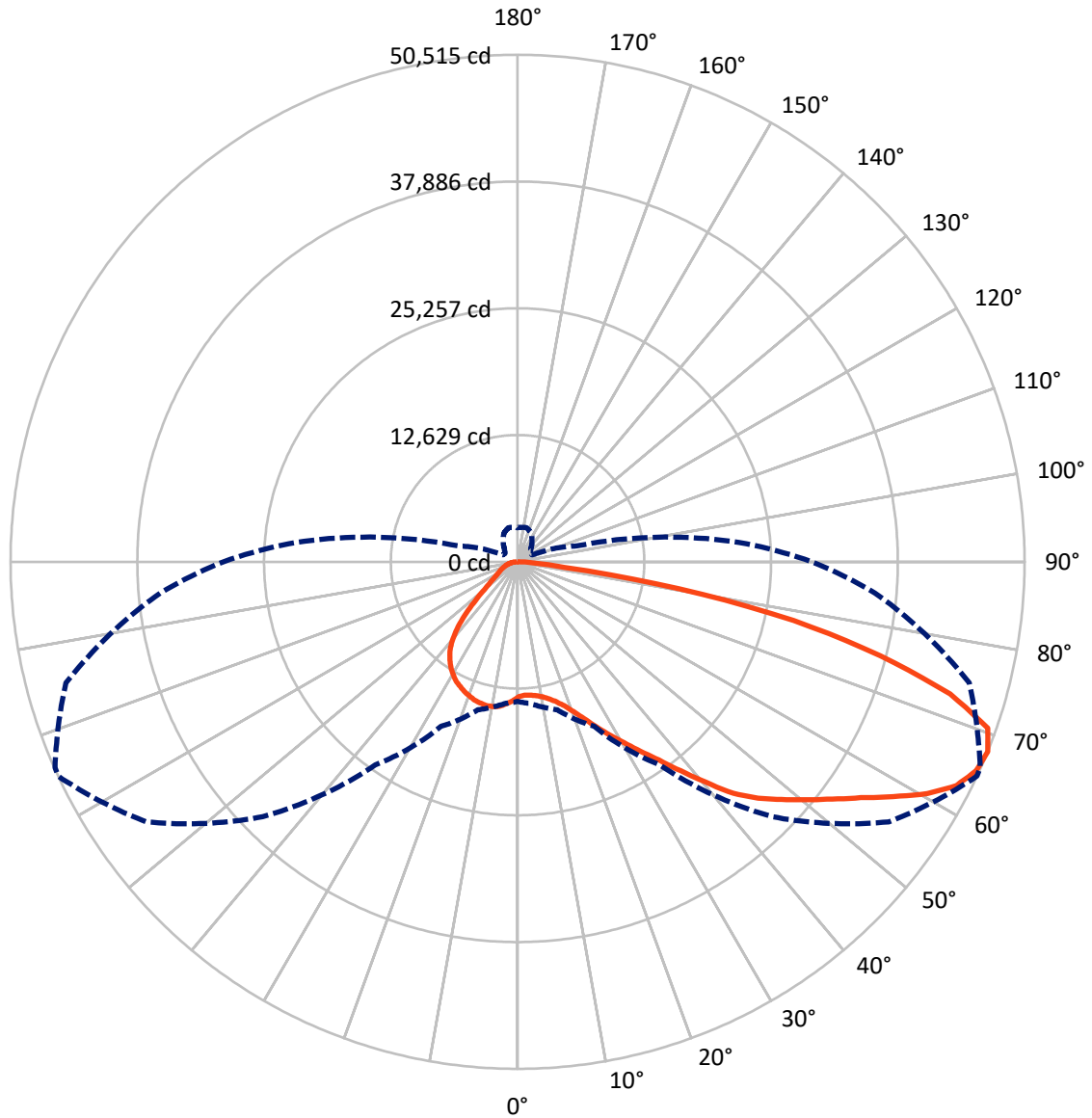
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.6 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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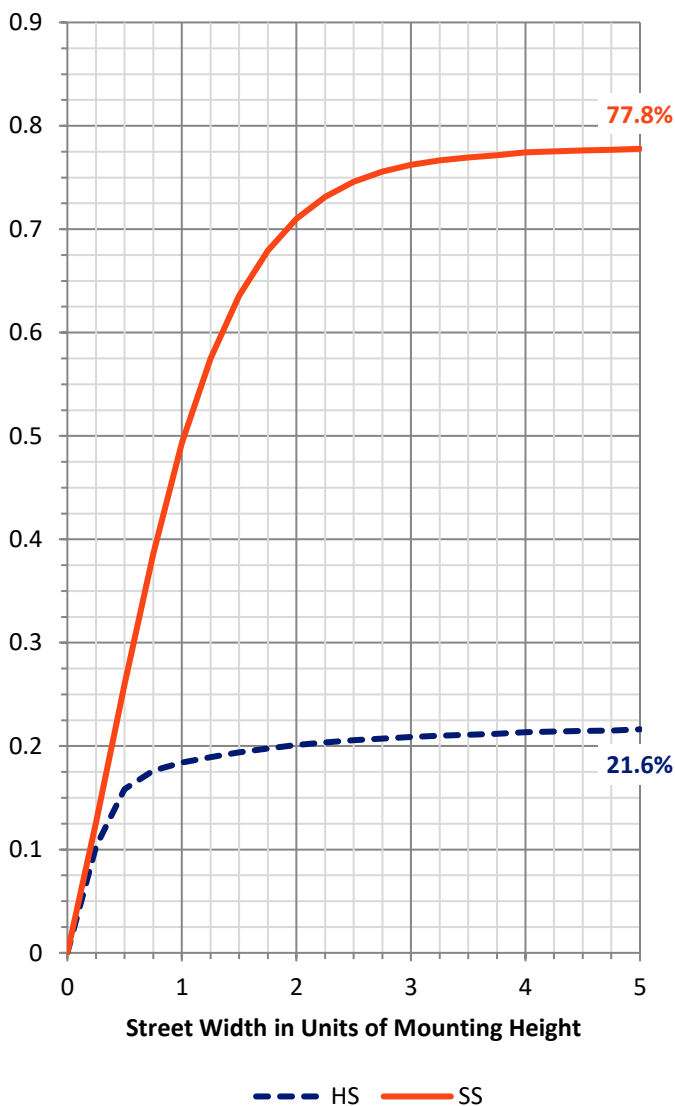
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19216.8	0.0	19216.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	67781.2	0.0	67781.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	86998.0	0.0	86998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1338.9	1.5
10°-20°	4183.1	4.8
20°-30°	7241.5	8.3
30°-40°	10640.6	12.2
40°-50°	14382.2	16.5
50°-60°	17685.8	20.3
60°-70°	18951.4	21.8
70°-80°	11177.3	12.8
80°-90°	1397.1	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°	86998.0	100.0
0°-180°	86998.0	100.0

Coefficient of Utilization



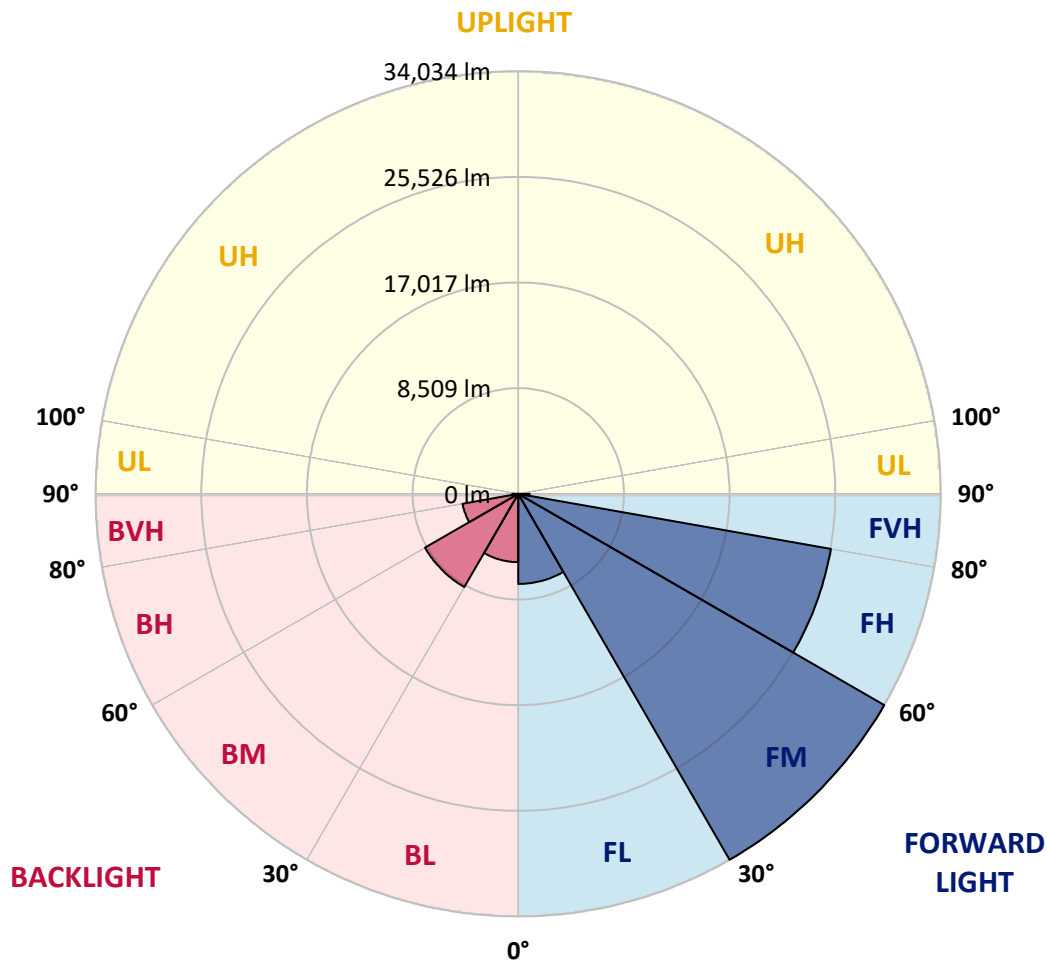
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7259.3	8.3			
FM	(30°-60°)	34034.2	39.1			
FH	(60°-80°)	25571.6	29.4			G5
FVH	(80°-90°)	916.2	1.1			G5
BL	(0°-30°)	5504.2	6.3	B5		
BM	(30°-60°)	8674.4	10.0	B5		
BH	(60°-80°)	4557.2	5.2	B4/5000		G4/5000
BVH	(80°-90°)	481.0	0.6			G3/500
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°	66°	75°	85°
0°	13437.9	13437.9	13437.9	13437.9	13437.9	13437.9	13437.9	13437.9	13437.9	13437.9	13437.9
2.5°	13184.2	13159.4	13148.8	13182.5	13207.3	13235.7	13276.5	13315.5	13320.8	13372.3	13439.7
5°	13343.9	13322.6	13299.5	13294.2	13285.4	13283.6	13294.2	13338.6	13349.2	13398.9	13544.3
7.5°	13698.6	13677.3	13634.8	13618.8	13570.9	13485.8	13445.0	13468.0	13473.4	13533.7	13714.6
10°	14276.9	14211.2	14159.8	14106.6	13955.8	13821.0	13721.7	13679.1	13670.3	13728.8	13938.1
12.5°	14966.9	14911.9	14855.1	14715.0	14523.4	14280.4	14104.8	14007.3	14000.2	14049.8	14207.7
15°	15695.9	15695.9	15656.8	15490.1	15302.1	14899.5	14628.1	14464.9	14475.5	14514.6	14587.3
17.5°	16637.7	16559.7	16541.9	16352.2	16142.9	15775.7	15344.7	15083.9	15096.3	15114.1	15059.1
20°	17595.6	17572.5	17545.9	17420.0	17230.2	16758.3	16274.1	15931.8	15933.6	15869.7	15624.9
22.5°	18862.0	18785.7	18805.2	18663.3	18406.2	17921.9	17365.0	16958.8	16985.4	16893.1	16449.7
25°	20119.6	20043.3	20002.5	19906.7	19685.0	19225.6	18564.0	18191.5	18159.6	17992.9	17349.0
27.5°	21375.4	21331.1	21364.8	21249.5	21068.5	20555.9	19949.3	19536.0	19557.3	19442.0	18482.4
30°	22675.6	22625.9	22773.1	22586.9	22475.1	21976.7	21394.9	20908.9	20926.6	20969.2	19892.6
32.5°	23656.4	23715.0	23972.2	23950.9	23929.6	23374.4	22762.5	22492.9	22519.5	22668.5	21567.0
35°	24603.6	24608.9	24970.8	25243.9	25359.2	24894.5	24259.5	24250.6	24424.5	24878.5	23901.2
37.5°	25389.4	25371.7	25854.1	26278.0	26593.8	26233.7	25884.3	26428.8	26586.7	27528.5	26251.4
40°	25818.6	25855.9	26476.7	27005.3	27626.1	27455.8	27493.0	28885.4	29273.9	30098.7	28009.2
42.5°	25517.1	25630.6	26597.3	27675.7	28612.3	28839.3	29587.8	31539.0	31703.9	31852.9	29738.6
45°	25011.6	25130.4	26201.8	27943.6	29426.4	30386.0	31672.0	33580.5	33761.5	33594.7	31177.1
47.5°	24484.8	24607.2	25800.9	27835.4	30100.5	31939.8	33525.6	35386.2	35616.8	35100.6	32560.6
50°	23816.1	24005.9	25311.3	27606.6	30646.8	33616.0	35279.8	37245.1	37351.5	36606.6	33608.9
52.5°	22993.1	23202.4	24614.3	27214.6	31074.2	34786.7	37055.3	39261.8	39251.2	38366.1	34808.0
55°	22127.5	22317.3	23771.7	26597.3	31313.7	35687.8	38474.3	41484.4	41612.1	40870.6	35893.5
57.5°	21018.9	21190.9	22776.7	25767.2	31065.4	36452.2	40773.1	44125.5	44189.3	42614.2	36757.3
60°	19550.2	19803.9	21396.7	24711.8	30352.3	37337.3	43306.0	46903.1	46981.2	44329.4	37312.5
62.5°	17937.9	18039.0	19662.0	23087.1	29314.7	38020.2	45062.0	49076.0	48962.5	45670.4	37479.2
65°	15972.6	16052.4	17457.2	20997.6	27386.6	37646.0	45691.7	50193.4	50053.3	46512.9	36966.6
67.5°	13915.0	14161.6	15264.9	18099.3	24695.9	35918.3	45159.6	50514.5	50443.5	46576.8	35742.7
70°	11243.8	11330.7	12327.5	14745.1	20605.6	32459.5	43385.8	49691.5	49636.5	45150.7	33243.5
72.5°	7928.6	7843.5	8327.7	10223.9	14883.5	25820.4	37042.9	45067.3	45159.6	40390.0	28949.3
75°	4209.1	4372.3	5126.1	6259.5	8437.7	16598.7	29532.9	37298.3	37266.4	33773.9	22883.1
77.5°	2242.0	2238.5	2756.4	3240.6	4131.1	7627.1	19479.3	28128.1	28284.1	26168.1	15711.8
80°	1076.7	1117.5	1149.4	1317.9	2059.3	3524.4	8148.6	16311.4	17375.6	15607.2	7463.9
82.5°	862.0	865.6	869.1	831.9	851.4	1435.0	3139.5	4719.9	4890.2	3930.6	2407.0
85°	638.5	599.5	594.2	503.7	569.4	862.0	1584.0	2015.0	1915.6	1864.2	1358.7
87.5°	257.2	241.2	234.1	219.9	219.9	324.6	558.7	729.0	727.2	663.4	455.9
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°	13437.9	13437.9	13437.9	13437.9	13437.9	13437.9	13437.9	13437.9	13437.9	13437.9	13437.9
2.5°	13492.9	13556.7	13705.7	13833.4	13881.3	13998.4	14108.4	14172.2	14216.6	14243.2	14363.8
5°	13633.0	13760.7	13998.4	14177.5	14351.4	14567.8	14707.9	14796.6	14846.2	14874.6	14961.5
7.5°	13847.6	13977.1	14229.0	14503.9	14663.6	14840.9	14931.4	14995.2	15027.2	15018.3	15087.5
10°	14039.2	14166.9	14418.8	14629.8	14720.3	14821.4	14869.3	14883.5	14885.3	14892.4	14961.5
12.5°	14299.9	14378.0	14512.8	14651.1	14631.6	14635.2	14676.0	14658.2	14617.4	14610.3	14656.5
15°	14580.2	14582.0	14592.6	14562.4	14440.1	14386.8	14330.1	14282.2	14170.4	14163.4	14236.1
17.5°	14931.4	14848.0	14654.7	14448.9	14158.0	13957.6	13755.4	13672.0	13535.4	13508.8	13544.3
20°	15383.7	15209.9	14739.8	14229.0	13684.4	13326.1	13081.4	12834.8	12645.0	12598.9	12632.6
22.5°	16032.9	15690.5	14848.0	13994.8	13152.3	12540.4	12065.0	11768.8	11449.5	11286.3	11302.3
25°	16816.9	16281.2	15036.0	13698.6	12526.2	11642.9	10871.3	10277.1	9917.0	9677.6	9741.4
27.5°	17843.9	17107.8	15261.3	13406.0	11747.5	10495.2	9376.0	8570.7	8203.6	8090.1	8015.6
30°	19034.1	18106.4	15499.0	12973.2	10906.8	9074.5	7641.3	6970.8	6550.4	6483.0	6426.3
32.5°	20626.9	19364.0	15944.2	12503.1	9902.8	7653.7	6098.1	5326.6	5230.8	5175.8	5163.4
35°	22680.9	21011.8	16410.7	11893.0	8593.8	5988.2	4613.5	4196.7	4150.6	4210.9	4216.2
37.5°	24860.8	22799.7	16969.4	11204.7	7087.9	4468.1	3529.8	3240.6	3292.1	3480.1	3522.7
40°	26336.6	23977.5	17476.7	10270.0	5227.2	3246.0	2568.4	2506.3	2790.1	3031.3	3081.0
42.5°	27752.0	24869.7	17682.5	9033.7	3728.4	2311.2	2073.5	2286.4	2683.7	2948.0	2983.4
45°	28959.9	25907.3	17164.5	7550.8	2527.6	1931.6	1986.6	2281.0	2722.7	3015.4	3042.0
47.5°	30109.3	26755.2	16456.8	5949.1	1993.7	1858.9	1984.8	2328.9	2809.6	3086.3	3102.3
50°	31207.3	27400.8	15248.9	4526.6	1867.8	1825.2	2000.8	2403.4	2857.5	3031.3	3024.2
52.5°	32021.4	27734.3	13962.9	3653.9	1818.1	1798.6	2043.4	2497.4	2866.4	2971.0	2963.9
55°	32619.2	27670.4	13118.6	2992.3	1777.3	1787.9	2112.5	2568.4	2951.5	3109.4	3104.1
57.5°	32674.2	27381.3	12159.0	2527.6	1727.6	1786.2	2187.0	2667.7	3377.2	3668.1	3579.4
60°	32608.5	26902.4	11201.2	2219.0	1672.6	1796.8	2265.1	2965.7	3990.9	4219.7	4157.7
62.5°	32285.7	26010.2	9766.2	2015.0	1624.8	1835.8	2323.6	3201.6	3960.8	3987.4	3898.7
65°	31288.9	24816.5	7882.5	1809.2	1576.9	1862.4	2371.5	3263.7	3638.0	3552.8	3508.5
67.5°	29316.5	22150.5	6080.4	1621.2	1514.8	1857.1	2513.4	3175.0	3515.6	3453.5	3396.7
70°	26513.9	19121.0	4221.5	1427.9	1410.1	1823.4	2477.9	3205.2	3457.0	3361.2	3285.0
72.5°	22150.5	15000.6	2685.5	1270.0	1254.0	1743.6	2389.2	3185.6	3418.0	3375.4	3270.8
75°	16678.5	10470.4	1706.3	1097.9	1115.7	1598.1	2247.3	3081.0	3398.5	3265.5	3065.0
77.5°	10500.6	5168.7	1326.8	933.0	959.6	1378.2	1942.3	2690.8	3261.9	3182.1	2924.9
80°	3971.4	2098.3	1037.6	757.4	780.4	1071.3	1592.8	2213.6	3003.0	3134.2	3024.2
82.5°	1828.7	1312.6	778.7	608.4	617.3	780.4	1188.4	1638.9	2541.8	2877.0	3151.9
85°	1067.8	860.3	519.7	406.2	422.2	461.2	668.7	1000.4	1647.8	2194.1	2454.9
87.5°	363.6	299.8	202.2	172.1	166.7	189.8	161.4	328.1	489.6	862.0	984.4
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)