

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: P510577

Luminaire Tested: **CTN-CA10-760-722-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)
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-T2
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: 86182 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

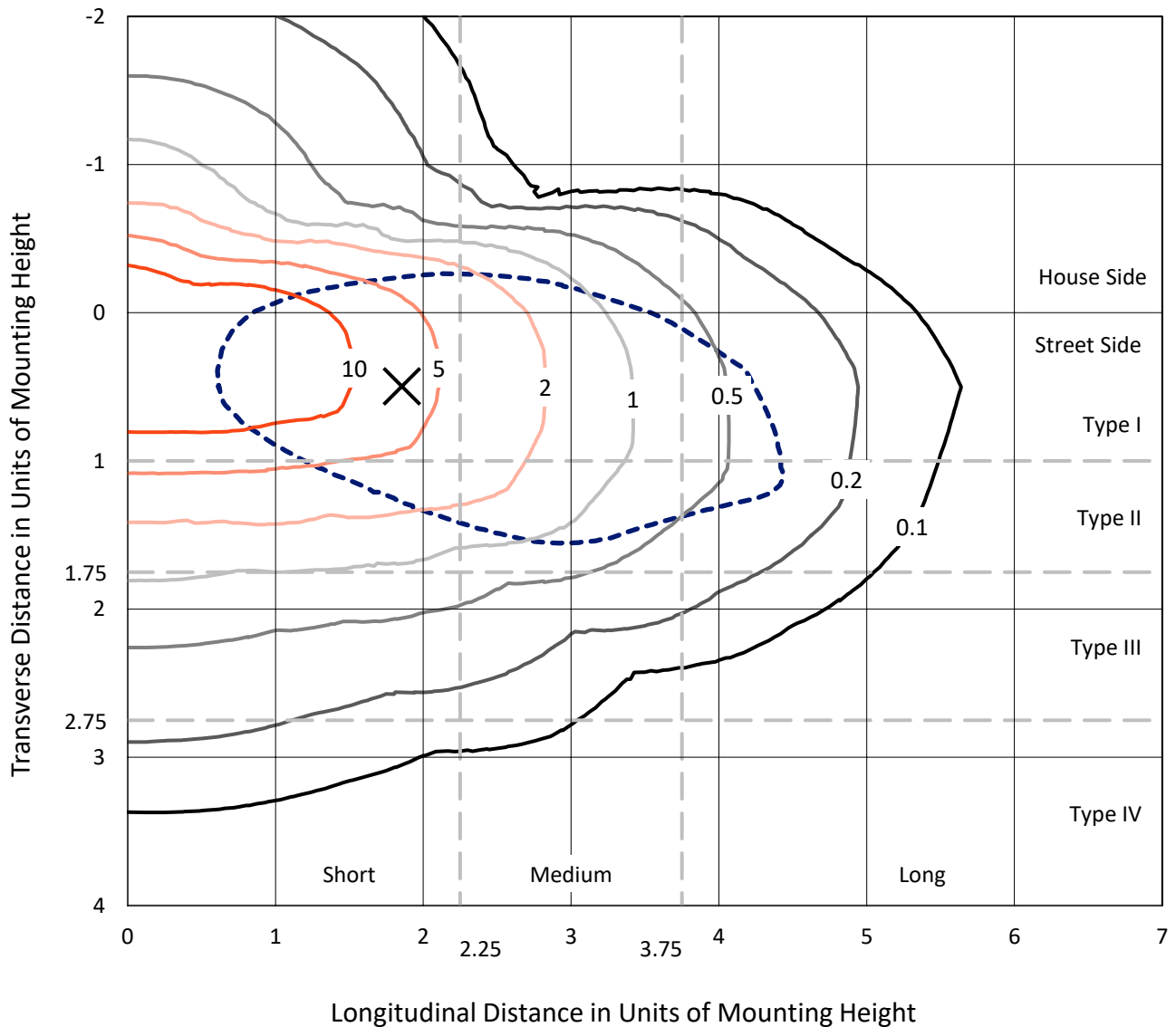
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

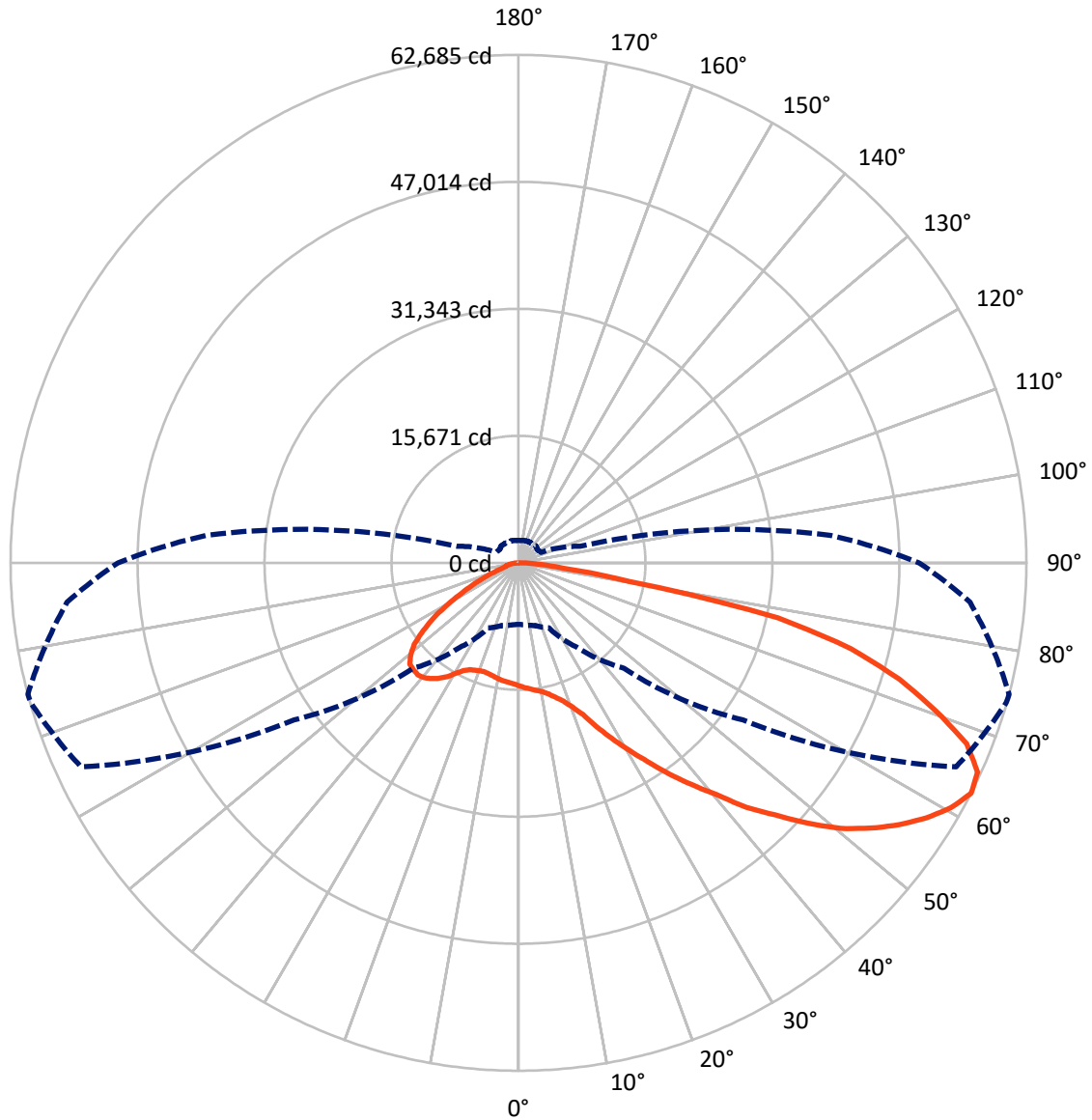
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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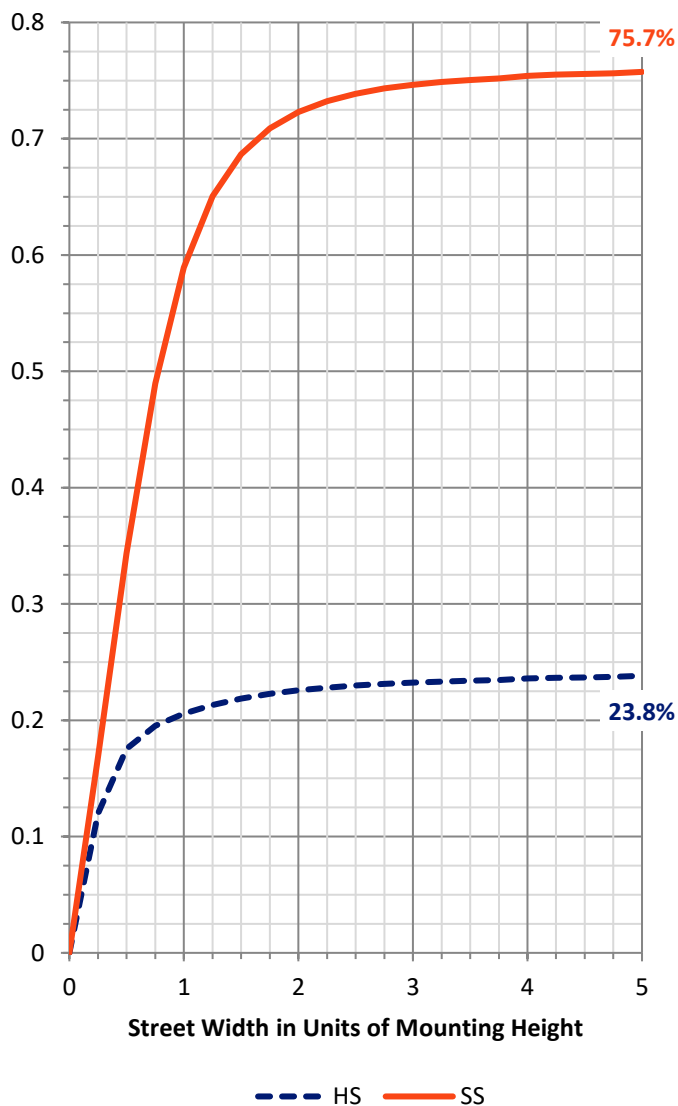
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20880.4	0.0	20880.4
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	65301.6	0.0	65301.6
	% Fixture	75.8	0.0	75.8
Total	Lumens	86182.0	0.0	86182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1461.5	1.7
10°-20°	4435.6	5.1
20°-30°	7650.3	8.9
30°-40°	11280.5	13.1
40°-50°	14870.1	17.3
50°-60°	17500.8	20.3
60°-70°	17411.6	20.2
70°-80°	10153.9	11.8
80°-90°	1417.8	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°	86182.0	100.0
0°-180°	86182.0	100.0

Coefficient of Utilization



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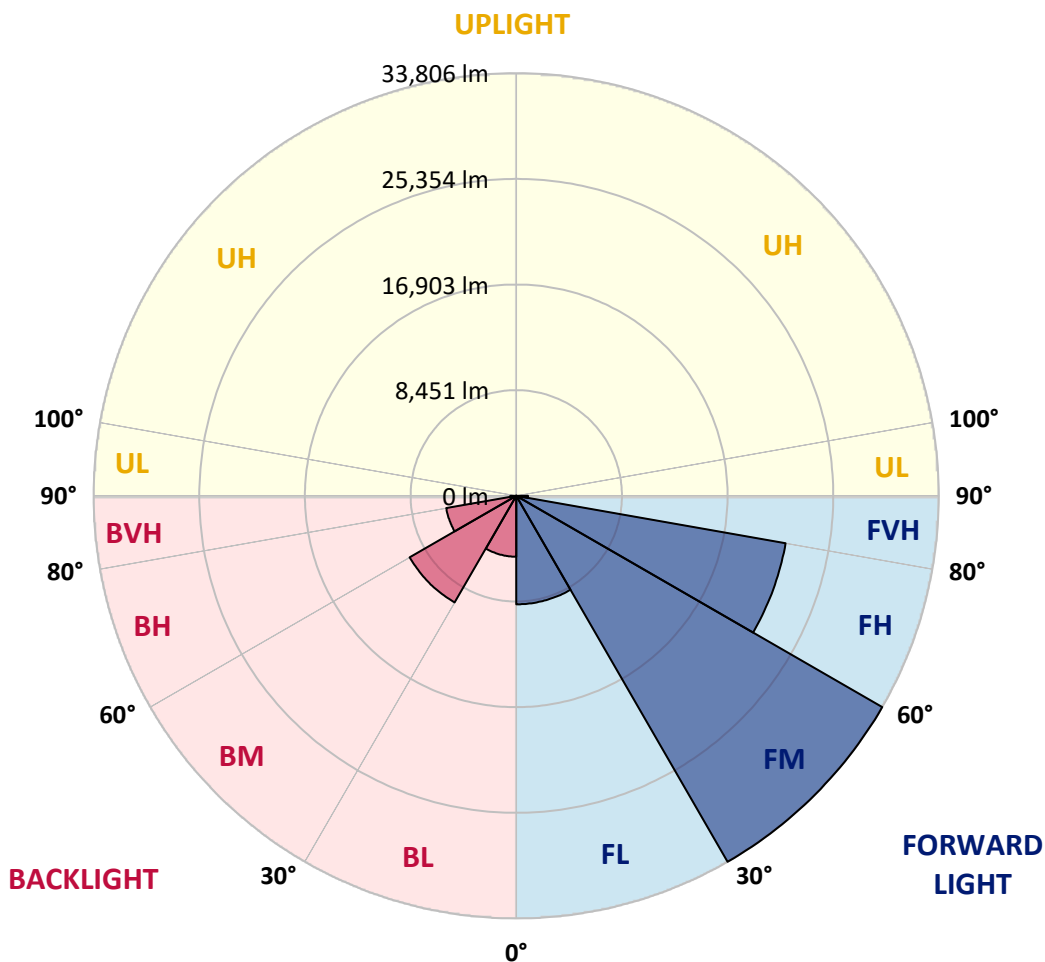
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8678.2	10.1			
FM (30°-60°)	33805.7	39.2			
FH (60°-80°)	21877.0	25.4			G5
FVH (80°-90°)	940.8	1.1			G5
BL (0°-30°)	4869.2	5.6	B4/5000		
BM (30°-60°)	9845.7	11.4	B5		
BH (60°-80°)	5688.5	6.6	B5		G5
BVH (80°-90°)	476.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	15191.9	15191.9	15191.9	15191.9	15191.9	15191.9	15191.9	15191.9	15191.9	15191.9	15191.9
2.5°	16023.8	15958.2	15967.0	15920.9	15851.7	15800.3	15665.5	15520.1	15433.1	15426.0	15301.9
5°	16829.1	16850.3	16855.7	16708.4	16563.0	16398.0	16192.3	15912.0	15683.2	15647.8	15406.5
7.5°	17563.4	17561.6	17551.0	17469.4	17402.0	17157.2	16745.7	16305.8	15933.3	15899.6	15507.6
10°	18315.4	18310.1	18203.7	18067.1	17914.6	17689.3	17336.3	16809.6	16206.5	16162.1	15601.6
12.5°	19134.9	19076.4	19009.0	18844.0	18663.1	18272.9	17902.2	17329.3	16699.6	16619.8	15768.4
15°	19810.7	19750.4	19656.4	19544.6	19354.8	19056.9	18663.1	17983.8	17308.0	17229.9	16142.6
17.5°	20479.4	20451.0	20383.6	20264.8	20119.3	19862.1	19500.3	18923.8	18038.7	17943.0	16765.2
20°	21027.5	20960.1	20910.4	20965.4	20977.8	20788.0	20589.4	20105.1	19129.6	18982.4	17529.7
22.5°	21339.6	21325.4	21596.8	21799.0	21880.6	21923.2	21861.1	21470.9	20587.6	20330.4	18593.9
25°	21635.8	21612.8	21981.7	22487.2	22967.9	23212.7	23377.6	23429.1	22618.5	22386.1	20305.6
27.5°	21644.7	21708.6	22244.2	23092.1	23824.6	24571.4	25362.4	25452.9	24741.6	24557.2	22253.1
30°	21692.6	21721.0	22251.3	23225.1	24750.5	25947.8	26978.3	27487.4	26873.6	26788.5	24397.5
32.5°	21084.2	21121.5	21946.2	23457.5	25449.3	27372.1	28739.6	29495.2	29342.7	29234.5	26685.6
35°	20451.0	20482.9	21440.7	23127.5	25969.0	28665.1	30330.6	31815.2	32093.7	32012.1	29238.0
37.5°	19457.7	19564.1	20568.1	22733.8	26059.5	29615.8	31848.9	34126.4	34967.1	34722.4	31937.6
40°	18379.3	18457.3	19626.2	21909.0	25958.4	30240.2	33340.6	36684.1	37702.2	37571.0	34617.7
42.5°	17017.1	17226.4	18397.0	20855.4	25438.7	30628.6	34720.6	39584.1	41063.4	41239.0	37079.6
45°	15869.5	15864.2	16951.4	19330.0	24496.9	30720.8	35990.6	42516.1	44680.0	44350.1	40334.4
47.5°	14519.7	14574.7	15709.8	17811.7	23108.0	30428.2	36980.3	45981.9	48172.5	47993.3	43003.9
50°	11396.2	11791.7	13941.4	16506.2	21229.7	29612.3	37805.1	49357.3	51448.5	51530.1	45430.3
52.5°	9824.6	9977.2	11163.8	15191.9	19562.4	28243.0	38709.7	53154.9	54614.6	54407.1	48184.9
55°	9195.0	9276.6	9845.9	12831.1	17950.1	26123.4	39144.2	56622.5	57083.7	57050.0	50451.7
57.5°	8739.1	8801.2	9205.6	10708.0	16179.9	23402.5	38777.1	58878.7	59595.2	59375.3	52590.8
60°	8081.1	8130.7	8733.8	9649.0	14358.3	20655.0	36519.1	59902.1	61416.9	61335.3	54481.6
62.5°	7586.2	7671.3	8008.3	8866.8	12802.7	18391.7	33828.4	59582.8	62612.3	62685.1	55925.4
65°	7063.0	7139.2	7424.8	8175.1	11392.6	16903.6	30926.6	57982.9	62062.5	62255.8	56159.5
67.5°	6417.3	6475.9	6814.6	7463.8	9744.8	15415.4	27654.1	55153.8	59011.7	59634.3	53828.9
70°	5605.0	5626.2	6041.3	6482.9	8091.7	13171.7	21988.8	50522.7	54596.9	54609.3	49428.3
72.5°	4460.9	4478.6	4588.6	4923.8	6078.5	10424.2	16162.1	42214.6	49229.6	49139.2	43929.7
75°	3033.1	3189.1	3570.5	3889.8	4384.6	7320.1	10051.7	28441.6	41709.0	42418.5	36084.6
77.5°	2396.3	2410.5	2568.3	2861.0	3288.5	5468.4	5633.3	15736.5	31095.1	32781.9	28363.6
80°	1670.8	1695.7	1610.5	1681.5	2293.4	3742.6	3292.0	6848.3	12967.7	13845.7	17029.5
82.5°	796.4	824.8	947.2	879.8	1140.5	1591.0	1738.2	3538.6	5601.4	5748.6	6630.2
85°	525.0	525.0	526.8	498.4	665.1	693.5	789.3	1509.4	2735.1	2827.3	2811.3
87.5°	168.5	186.2	180.9	211.1	255.4	230.6	241.2	473.6	938.3	929.4	776.9
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°	15191.9	15191.9	15191.9	15191.9	15191.9	15191.9	15191.9	15191.9	15191.9	15191.9	15191.9
2.5°	15213.2	15140.5	14970.2	14821.2	14674.0	14562.2	14466.5	14338.8	14278.5	14223.5	14338.8
5°	15257.5	15128.1	14823.0	14517.9	14237.7	14031.9	13906.0	13813.7	13730.4	13730.4	13769.4
7.5°	15309.0	15133.4	14697.1	14264.3	13843.9	13609.8	13430.6	13313.5	13246.1	13249.7	13333.1
10°	15342.7	15073.1	14553.4	13969.8	13512.2	13136.2	12960.6	12792.1	12664.4	12588.1	12673.2
12.5°	15381.7	15053.6	14360.0	13702.0	13145.0	12719.4	12354.0	12228.0	12103.9	12008.1	12054.2
15°	15622.9	15128.1	14198.6	13361.4	12715.8	12185.5	11706.6	11476.0	11440.5	11374.9	11390.8
17.5°	16016.7	15328.5	14094.0	12944.6	12199.7	11573.5	10966.9	10668.9	10598.0	10564.3	10582.0
20°	16603.8	15709.8	14125.9	12652.0	11617.9	10917.3	10133.3	9783.8	9547.9	9562.1	9631.3
22.5°	17501.3	16325.3	14299.7	12330.9	10988.2	10069.4	9278.3	8803.0	8565.3	8513.9	8591.9
25°	18930.9	17316.8	14491.3	12024.1	10379.8	9154.2	8278.0	7763.6	7458.5	7439.0	7525.9
27.5°	20763.2	18836.9	14908.1	11758.0	9624.2	8054.5	7183.6	6743.7	6419.1	6380.1	6351.7
30°	22638.0	20525.5	15662.0	11353.6	8742.7	6919.3	6161.9	5817.8	5454.2	5307.0	5338.9
32.5°	24624.6	22098.8	16545.3	11069.8	7756.5	5920.7	5262.6	4934.5	4601.0	4388.2	4338.5
35°	26625.3	23663.2	17288.5	10645.9	6821.7	5127.8	4498.2	4159.4	3868.5	3694.7	3682.2
37.5°	28966.6	25291.5	17884.4	10195.3	5851.5	4507.0	3749.6	3554.5	3414.4	3261.9	3277.8
40°	31311.5	27189.4	18361.6	9450.4	5046.2	3840.1	3190.9	3229.9	3260.1	3132.4	3121.7
42.5°	33259.0	28783.9	18579.7	8485.5	4333.2	3260.1	2944.4	3121.7	3253.0	3169.6	3159.0
45°	35236.7	30126.6	18494.6	7288.2	3740.8	2983.4	2924.9	3105.8	3274.3	3254.8	3245.9
47.5°	37386.5	31886.2	18347.4	5924.2	3316.9	2956.8	2967.4	3052.6	3265.4	3300.9	3286.7
50°	40015.1	33505.6	17476.5	4613.4	3111.1	2999.4	3063.2	3018.9	3199.8	3272.5	3284.9
52.5°	42631.4	34752.5	16311.1	3998.0	3029.5	3040.2	3196.2	3045.5	3125.3	3189.1	3247.7
55°	44649.9	36022.5	14425.7	3627.3	3002.9	3059.7	3233.5	3102.2	3100.5	3100.5	3120.0
57.5°	46716.3	37723.5	12540.2	3387.8	2956.8	3081.0	3189.1	3112.9	3088.0	3052.6	3029.5
60°	48154.7	38353.2	10117.3	3229.9	2908.9	3050.8	3065.0	3054.3	2978.1	2944.4	2917.8
62.5°	49431.8	38695.5	7877.1	3049.0	2843.3	2979.9	2905.4	2882.3	2838.0	2756.4	2770.6
65°	49089.5	37961.2	6002.3	2845.0	2797.2	2894.7	2765.2	2710.2	2713.8	2628.7	2657.0
67.5°	46886.5	34667.4	4310.1	2532.9	2671.2	2726.2	2605.6	2564.8	2504.5	2461.9	2500.9
70°	42436.3	30731.5	2907.1	2101.9	2383.9	2502.7	2422.9	2352.0	2257.9	2229.6	2272.1
72.5°	35717.4	25653.3	2006.1	1690.4	2057.5	2211.8	2181.7	2109.0	2041.6	2110.7	2194.1
75°	29342.7	18978.8	1637.1	1385.3	1582.2	1842.9	1931.6	1952.9	2155.1	2829.1	2898.3
77.5°	21121.5	11765.1	1472.2	1126.3	1262.9	1474.0	1651.3	1724.1	2632.2	2520.5	2515.1
80°	12314.9	6857.2	1122.8	888.6	1021.7	1080.2	1291.3	2023.8	2270.4	1947.5	1899.7
82.5°	5619.1	3026.0	782.2	711.3	709.5	714.8	879.8	1947.5	1741.8	1534.3	1477.5
85°	2066.4	1064.2	475.4	411.5	471.8	409.7	576.5	1427.8	1009.2	993.3	828.3
87.5°	509.1	218.2	161.4	134.8	110.0	104.6	175.6	470.0	246.5	225.3	216.4
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)