

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: STREETWORKS

Report Number: P510629

Luminaire Tested: **CST-CA10-760-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510629
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: STREETWORKS
Catalog Number: CST-CA10-760-760-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 106400 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

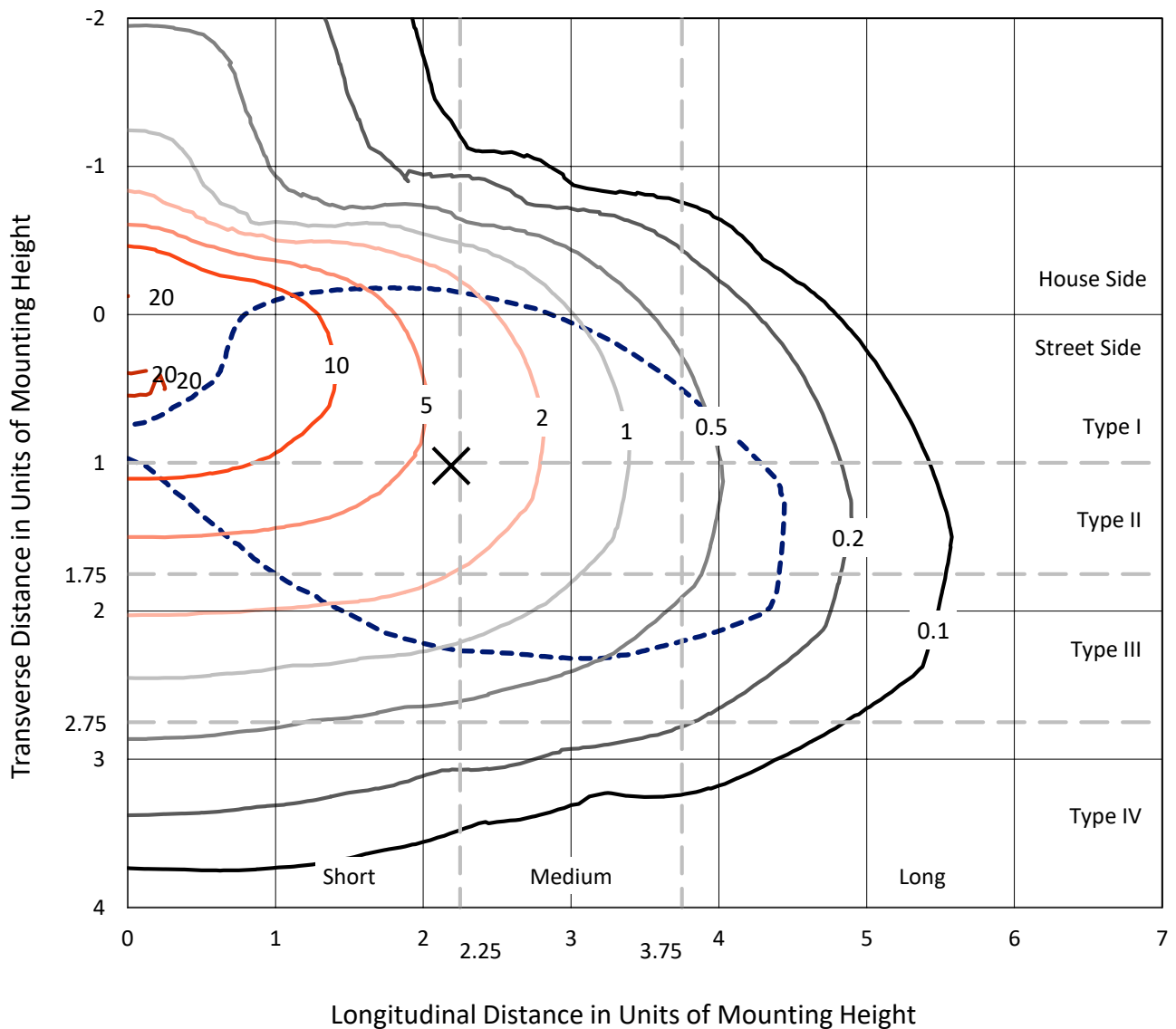
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

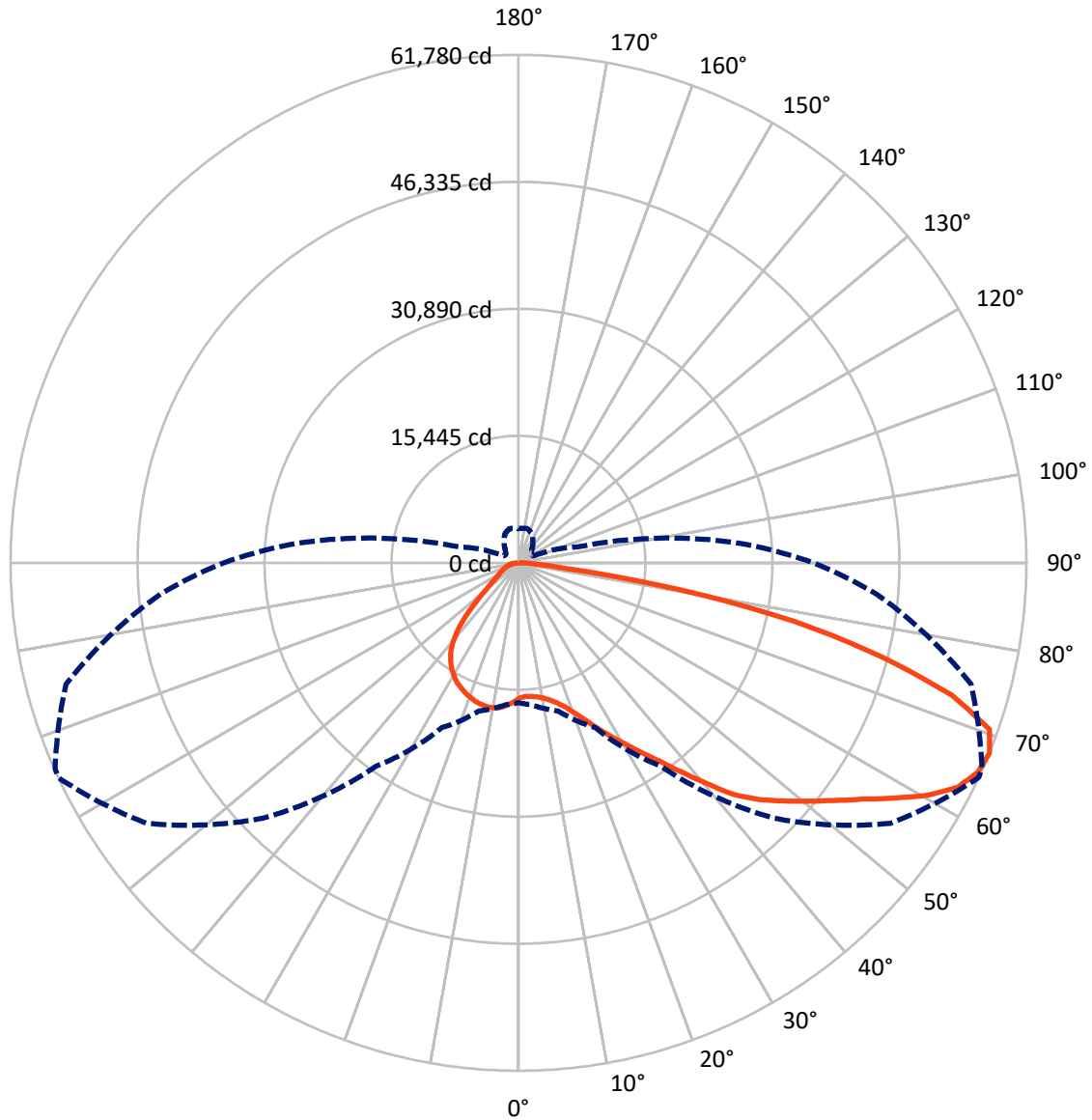
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20.3 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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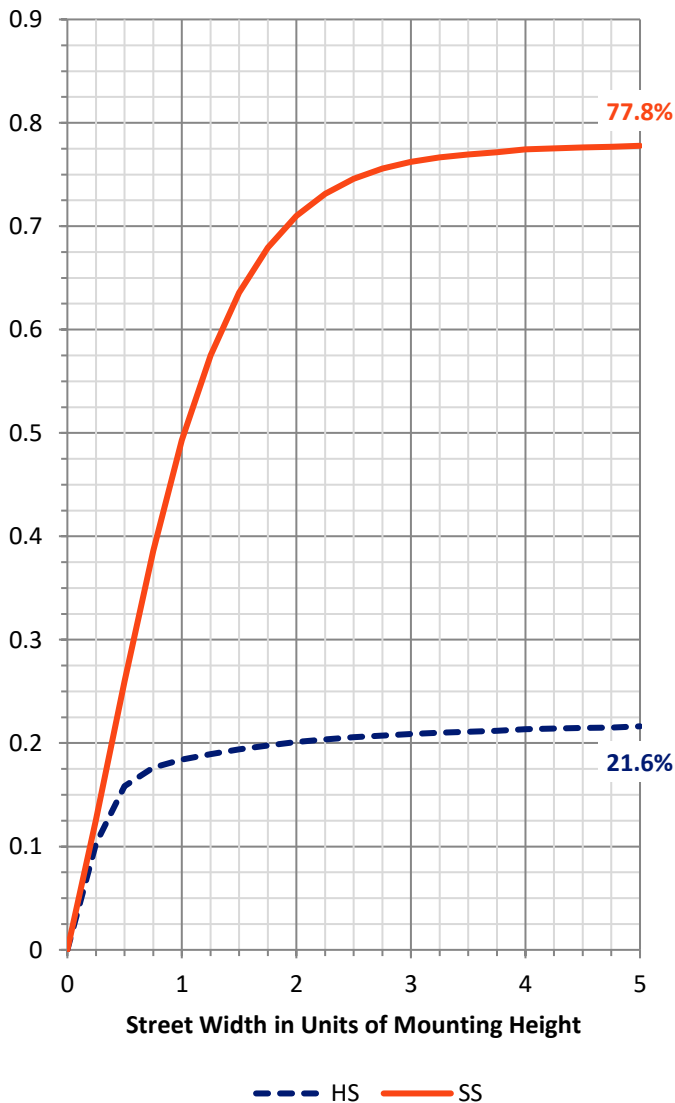
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23502.4	0.0	23502.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	82897.6	0.0	82897.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	106400.0	0.0	106400.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1637.5	1.5
10°-20°	5116.0	4.8
20°-30°	8856.5	8.3
30°-40°	13013.7	12.2
40°-50°	17589.6	16.5
50°-60°	21630.0	20.3
60°-70°	23177.9	21.8
70°-80°	13670.1	12.8
80°-90°	1708.7	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°	106400.0	100.0
0°-180°	106400.0	100.0

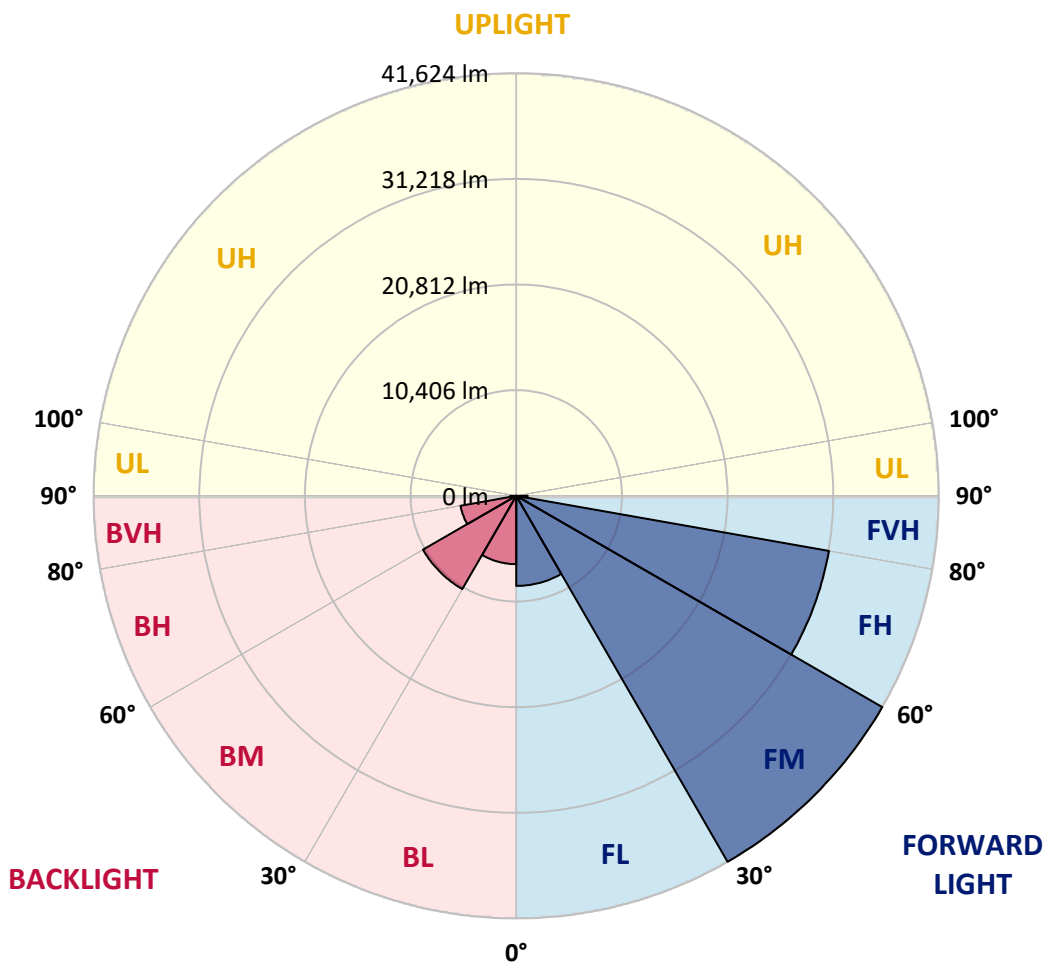


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8878.2	8.3			
FM (30°-60°)	41624.4	39.1			
FH (60°-80°)	31274.5	29.4			G5
FVH (80°-90°)	1120.5	1.1			G5
BL (0°-30°)	6731.7	6.3	B5		
BM (30°-60°)	10608.9	10.0	B5		
BH (60°-80°)	5573.5	5.2	B5		G5
BVH (80°-90°)	588.2	0.6			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°	66°	75°	85°
0°	16434.8	16434.8	16434.8	16434.8	16434.8	16434.8	16434.8	16434.8	16434.8	16434.8	16434.8
2.5°	16124.6	16094.2	16081.2	16122.4	16152.8	16187.5	16237.4	16285.1	16291.6	16354.5	16436.9
5°	16319.8	16293.8	16265.6	16259.1	16248.2	16246.0	16259.1	16313.3	16326.3	16387.0	16564.9
7.5°	16753.7	16727.6	16675.6	16656.0	16597.5	16493.3	16443.4	16471.6	16478.2	16551.9	16773.2
10°	17460.9	17380.6	17317.7	17252.6	17068.2	16903.3	16781.9	16729.8	16718.9	16790.5	17046.5
12.5°	18304.7	18237.5	18168.1	17996.7	17762.4	17465.2	17250.4	17131.1	17122.4	17183.2	17376.3
15°	19196.3	19196.3	19148.6	18944.7	18714.7	18222.3	17890.4	17690.8	17703.8	17751.5	17840.5
17.5°	20348.2	20252.8	20231.1	19999.0	19743.0	19293.9	18766.8	18447.9	18463.1	18484.8	18417.5
20°	21519.7	21491.5	21458.9	21304.9	21072.8	20495.7	19903.5	19484.8	19487.0	19408.9	19109.5
22.5°	23068.5	22975.3	22999.1	22825.6	22511.0	21918.8	21237.6	20740.9	20773.4	20660.6	20118.3
25°	24606.6	24513.3	24463.4	24346.3	24075.1	23513.3	22704.1	22248.5	22209.5	22005.6	21218.1
27.5°	26142.5	26088.2	26129.5	25988.5	25767.2	25140.2	24398.3	23892.9	23918.9	23777.9	22604.3
30°	27732.6	27671.8	27851.9	27624.1	27487.5	26877.9	26166.3	25571.9	25593.6	25645.7	24328.9
32.5°	28932.2	29003.8	29318.4	29292.3	29266.3	28587.3	27838.9	27509.1	27541.7	27723.9	26376.8
35°	30090.6	30097.1	30539.7	30873.8	31014.8	30446.4	29669.8	29658.9	29871.5	30426.9	29231.6
37.5°	31051.6	31029.9	31620.0	32138.5	32524.6	32084.2	31656.9	32322.9	32515.9	33667.8	32105.9
40°	31576.6	31622.2	32381.4	33027.9	33787.2	33578.9	33624.5	35327.4	35802.5	36811.2	34255.7
42.5°	31207.8	31346.7	32528.9	33847.9	34993.3	35271.0	36186.4	38572.7	38774.4	38956.6	36370.8
45°	30589.6	30734.9	32045.2	34175.5	35989.0	37162.6	38735.4	41069.6	41290.8	41086.9	38130.1
47.5°	29945.3	30095.0	31554.9	34043.1	36813.4	39062.9	41002.3	43277.9	43559.9	42928.7	39822.2
50°	29127.5	29359.6	30956.2	33763.3	37481.5	41112.9	43147.8	45551.4	45681.5	44770.4	41104.3
52.5°	28120.9	28376.9	30103.7	33283.9	38004.3	42544.7	45319.3	48017.9	48004.9	46922.4	42570.7
55°	27062.3	27294.4	29073.2	32528.9	38297.2	43646.7	47054.7	50736.1	50892.2	49985.5	43898.4
57.5°	25706.4	25916.9	27856.2	31513.7	37993.5	44581.7	49866.2	53966.2	54044.3	52117.9	44954.8
60°	23910.2	24220.5	26168.5	30223.0	37121.4	45664.2	52963.9	57363.3	57458.8	54215.6	45633.8
62.5°	21938.3	22062.0	24046.9	28235.9	35852.3	46499.4	55111.6	60020.7	59881.9	55855.6	45837.7
65°	19534.7	19632.3	21350.4	25680.4	33494.3	46041.6	55881.7	61387.4	61216.0	56886.1	45210.8
67.5°	17018.3	17319.8	18669.2	22135.7	30203.4	43928.7	55230.9	61780.1	61693.3	56964.2	43714.0
70°	13751.3	13857.6	15076.8	18033.6	25201.0	39698.6	53061.6	60773.5	60706.2	55220.0	40657.4
72.5°	9696.9	9592.7	10185.0	12504.0	18202.8	31578.8	45304.1	55118.1	55230.9	49397.6	35405.5
75°	5147.8	5347.4	6269.3	7655.5	10319.5	20300.5	36119.2	45616.5	45577.4	41306.0	27986.4
77.5°	2742.0	2737.7	3371.1	3963.3	5052.3	9328.1	23823.5	34401.1	34592.0	32004.0	19215.8
80°	1316.8	1366.7	1405.7	1611.8	2518.6	4310.4	9965.9	19949.1	21250.7	19087.8	9128.5
82.5°	1054.3	1058.6	1063.0	1017.4	1041.3	1755.0	3839.7	5772.6	5980.8	4807.2	2943.8
85°	781.0	733.2	726.7	616.1	696.4	1054.3	1937.2	2464.3	2342.9	2280.0	1661.7
87.5°	314.6	295.0	286.4	269.0	269.0	397.0	683.3	891.6	889.4	811.3	557.5
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°	16434.8	16434.8	16434.8	16434.8	16434.8	16434.8	16434.8	16434.8	16434.8	16434.8	16434.8
2.5°	16502.0	16580.1	16762.3	16918.5	16977.1	17120.3	17254.8	17332.9	17387.1	17419.6	17567.2
5°	16673.4	16829.6	17120.3	17339.4	17552.0	17816.6	17988.0	18096.5	18157.2	18191.9	18298.2
7.5°	16935.9	17094.2	17402.3	17738.5	17933.8	18150.7	18261.3	18339.4	18378.5	18367.6	18452.2
10°	17170.2	17326.4	17634.4	17892.5	18003.2	18126.8	18185.4	18202.8	18204.9	18213.6	18298.2
12.5°	17489.1	17584.5	17749.4	17918.6	17894.7	17899.1	17949.0	17927.3	17877.4	17868.7	17925.1
15°	17831.8	17834.0	17847.0	17810.1	17660.4	17595.4	17525.9	17467.4	17330.7	17322.0	17411.0
17.5°	18261.3	18159.4	17922.9	17671.3	17315.5	17070.4	16823.1	16721.1	16554.1	16521.5	16564.9
20°	18814.5	18601.9	18027.0	17402.3	16736.3	16298.1	15998.7	15697.2	15465.1	15408.7	15449.9
22.5°	19608.5	19189.8	18159.4	17115.9	16085.5	15337.1	14755.7	14393.4	14003.0	13803.4	13822.9
25°	20567.3	19912.2	18389.3	16753.7	15319.7	14239.4	13295.8	12569.0	12128.7	11835.8	11913.9
27.5°	21823.4	20923.1	18664.8	16395.7	14367.4	12835.9	11467.0	10482.2	10033.1	9894.3	9803.2
30°	23279.0	22144.4	18955.5	15866.4	13339.1	11098.2	9345.4	8525.4	8011.3	7928.9	7859.4
32.5°	25227.0	23682.5	19500.0	15291.5	12111.3	9360.6	7458.1	6514.5	6397.3	6330.1	6314.9
35°	27739.1	25697.8	20070.5	14545.3	10510.4	7323.6	5642.4	5132.6	5076.2	5150.0	5156.5
37.5°	30405.2	27884.4	20753.9	13703.6	8668.6	5464.5	4316.9	3963.3	4026.3	4256.2	4308.3
40°	32210.1	29324.9	21374.3	12560.4	6393.0	3969.9	3141.2	3065.2	3412.3	3707.4	3768.1
42.5°	33941.2	30416.0	21625.9	11048.3	4559.9	2826.6	2535.9	2796.3	3282.2	3605.4	3648.8
45°	35418.5	31685.1	20992.5	9234.8	3091.3	2362.4	2429.6	2789.7	3329.9	3687.8	3720.4
47.5°	36824.2	32722.0	20126.9	7275.9	2438.3	2273.4	2427.5	2848.3	3436.2	3774.6	3794.1
50°	38167.0	33511.7	18649.6	5536.1	2284.3	2232.2	2447.0	2939.4	3494.8	3707.4	3698.7
52.5°	39162.7	33919.5	17076.9	4468.8	2223.6	2199.7	2499.1	3054.4	3505.6	3633.6	3624.9
55°	39893.8	33841.4	16044.3	3659.6	2173.7	2186.7	2583.7	3141.2	3609.7	3802.8	3796.3
57.5°	39961.0	33487.8	14870.7	3091.3	2112.9	2184.5	2674.8	3262.7	4130.4	4486.2	4377.7
60°	39880.8	32902.1	13699.3	2713.8	2045.7	2197.5	2770.2	3627.1	4881.0	5160.8	5084.9
62.5°	39486.0	31810.9	11944.3	2464.3	1987.1	2245.2	2841.8	3915.6	4844.1	4876.6	4768.2
65°	38266.8	30351.0	9640.5	2212.7	1928.5	2277.8	2900.4	3991.5	4449.3	4345.1	4290.9
67.5°	35854.5	27090.5	7436.4	1982.8	1852.6	2271.3	3073.9	3883.1	4299.6	4223.7	4154.2
70°	32427.0	23385.3	5163.0	1746.3	1724.6	2230.1	3030.5	3920.0	4228.0	4110.9	4017.6
72.5°	27090.5	18345.9	3284.4	1553.2	1533.7	2132.4	2922.1	3896.1	4180.3	4128.2	4000.2
75°	20398.1	12805.5	2086.9	1342.8	1364.5	1954.6	2748.5	3768.1	4156.4	3993.7	3748.6
77.5°	12842.4	6321.4	1622.7	1141.1	1173.6	1685.6	2375.4	3290.9	3989.4	3891.8	3577.2
80°	4857.1	2566.3	1269.1	926.3	954.5	1310.3	1948.0	2707.3	3672.7	3833.2	3698.7
82.5°	2236.6	1605.3	952.3	744.1	754.9	954.5	1453.4	2004.5	3108.6	3518.6	3854.9
85°	1305.9	1052.1	635.6	496.8	516.3	564.0	817.8	1223.5	2015.3	2683.4	3002.3
87.5°	444.7	366.6	247.3	210.4	203.9	232.1	197.4	401.3	598.7	1054.3	1204.0
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)