

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: P510617

Luminaire Tested: **CST-CA10-760-750-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510617  
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: STREETWORKS  
Catalog Number: CST-CA10-760-750-U-T2  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 107685 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

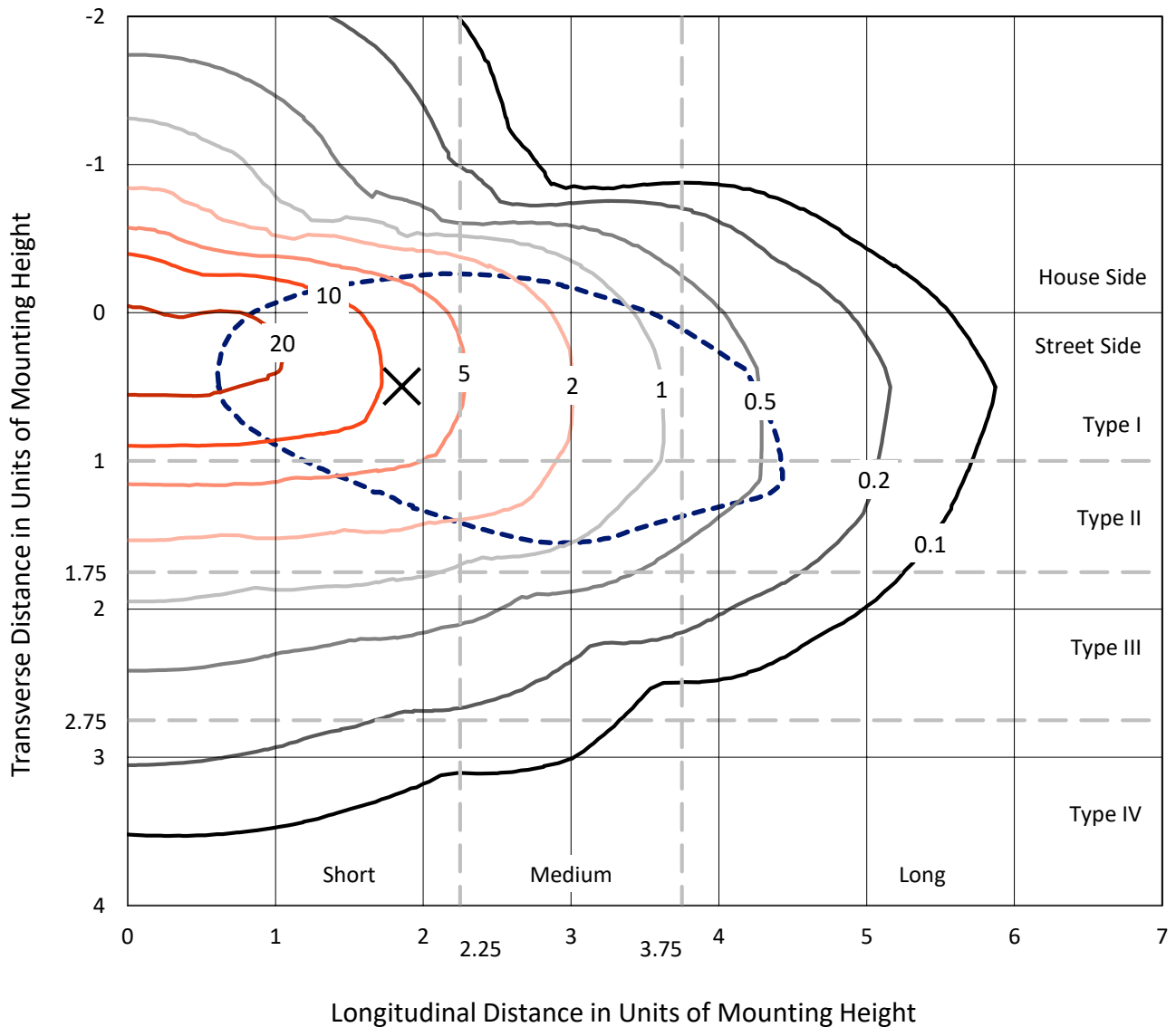
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

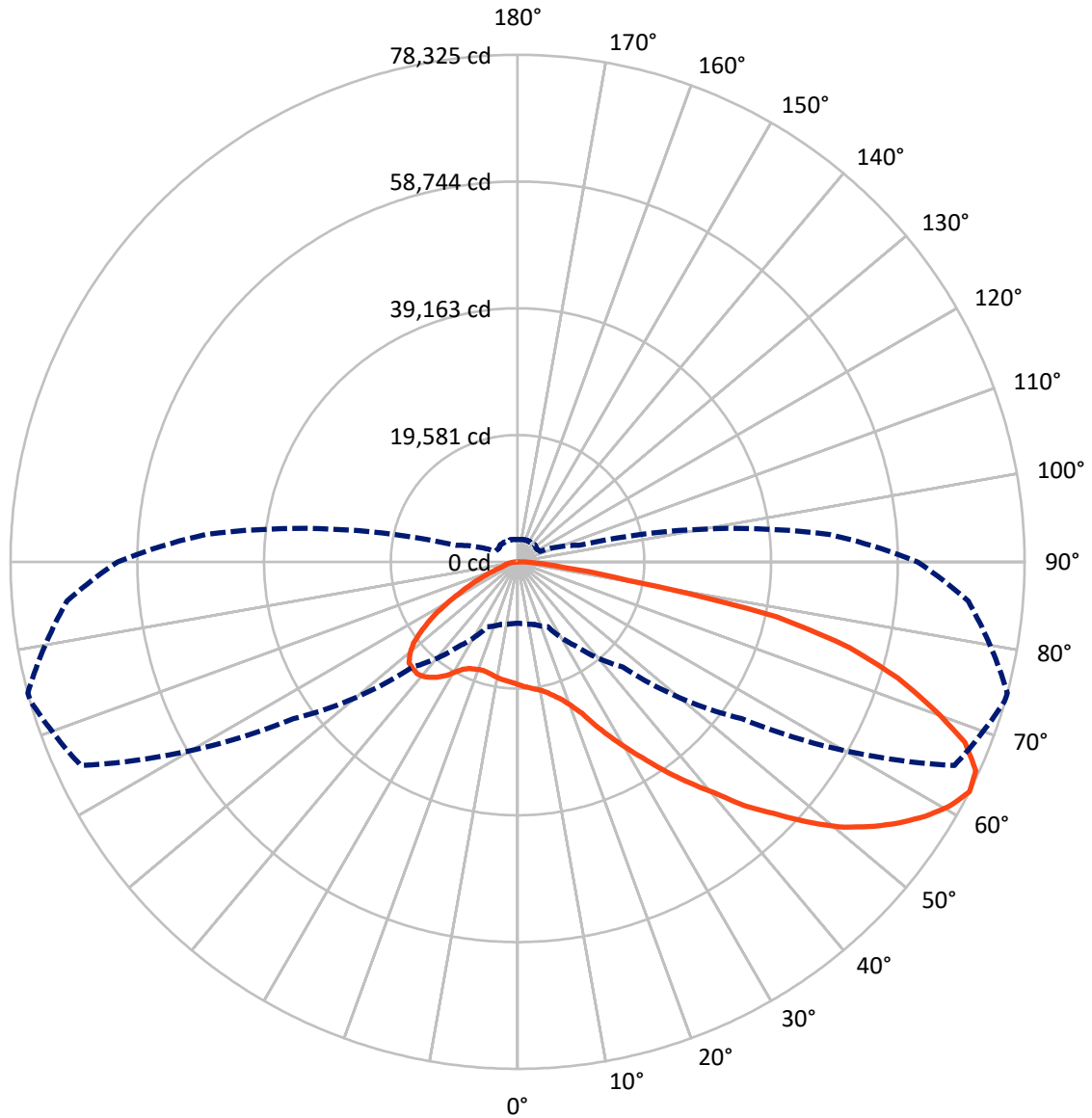
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 24.8 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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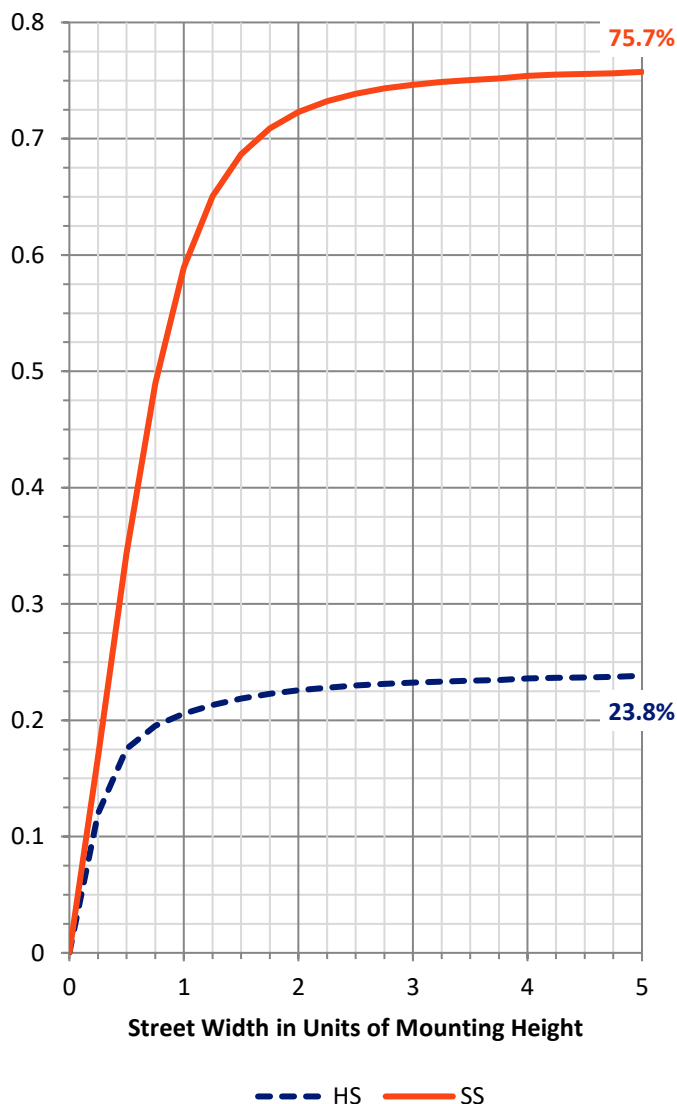
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26090.2	0.0	26090.2
	% Fixture	24.2	0.0	24.2
<b>Street Side</b>	Lumens	81594.8	0.0	81594.8
	% Fixture	75.8	0.0	75.8
<b>Total</b>	Lumens	107685.0	0.0	107685.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1826.2	1.7
10°-20°	5542.3	5.1
20°-30°	9559.1	8.9
30°-40°	14095.0	13.1
40°-50°	18580.3	17.3
50°-60°	21867.4	20.3
60°-70°	21755.9	20.2
70°-80°	12687.4	11.8
80°-90°	1771.5	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°	107685.0	100.0
0°-180°	107685.0	100.0

**Coefficient of Utilization**

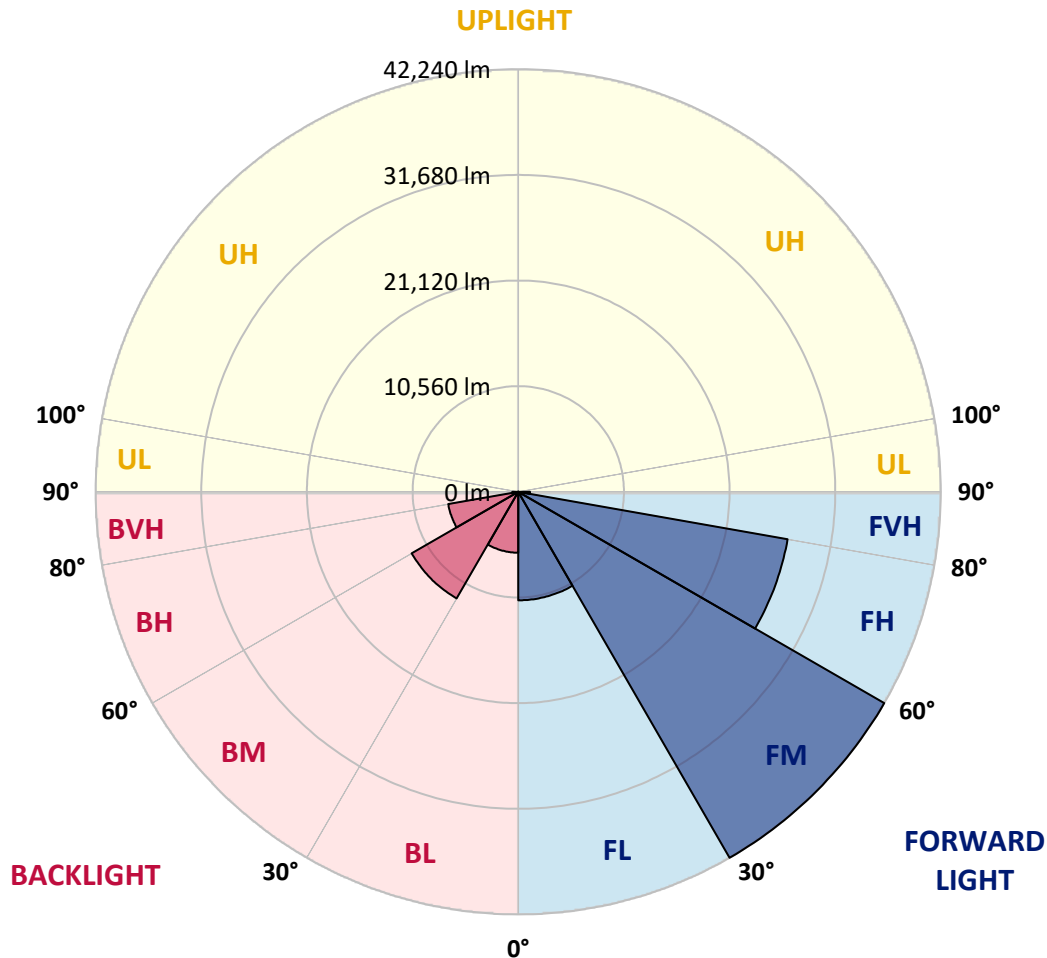


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10843.4	10.1			
FM (30°-60°)	42240.4	39.2			
FH (60°-80°)	27335.4	25.4			G5
FVH (80°-90°)	1175.6	1.1			G5
BL (0°-30°)	6084.1	5.6	B5		
BM (30°-60°)	12302.3	11.4	B5		
BH (60°-80°)	7107.8	6.6	B5		G5
BVH (80°-90°)	596.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	18982.4	18982.4	18982.4	18982.4	18982.4	18982.4	18982.4	18982.4	18982.4	18982.4	18982.4
2.5°	20021.8	19939.8	19950.9	19893.3	19806.9	19742.6	19574.2	19392.4	19283.8	19275.0	19119.8
5°	21028.0	21054.6	21061.3	20877.3	20695.6	20489.5	20232.4	19882.2	19596.3	19552.0	19250.6
7.5°	21945.6	21943.4	21930.1	21828.1	21743.9	21438.0	20923.9	20374.2	19908.8	19866.7	19376.9
10°	22885.3	22878.6	22745.6	22575.0	22384.4	22102.9	21661.9	21003.7	20250.1	20194.7	19494.4
12.5°	23909.2	23836.1	23751.8	23545.7	23319.7	22832.1	22368.9	21653.0	20866.2	20766.5	19702.7
15°	24753.6	24678.2	24560.8	24421.1	24184.0	23811.7	23319.7	22470.8	21626.4	21528.9	20170.3
17.5°	25589.1	25553.7	25469.4	25321.0	25139.2	24817.9	24365.7	23645.5	22539.5	22419.9	20948.2
20°	26274.0	26189.7	26127.7	26196.4	26211.9	25974.8	25726.5	25121.5	23902.5	23718.6	21903.5
22.5°	26664.0	26646.3	26985.4	27238.0	27340.0	27393.2	27315.6	26828.0	25724.3	25403.0	23233.2
25°	27034.1	27005.3	27466.3	28098.0	28698.6	29004.4	29210.5	29274.8	28262.0	27971.6	25371.9
27.5°	27045.2	27125.0	27794.3	28853.7	29769.0	30702.1	31690.5	31803.6	30914.8	30684.3	27805.4
30°	27105.1	27140.5	27803.2	29019.9	30925.9	32421.9	33709.6	34345.6	33578.8	33472.4	30484.9
32.5°	26344.9	26391.4	27422.0	29310.3	31799.1	34201.6	35910.3	36854.5	36663.9	36528.7	33343.9
35°	25553.7	25593.6	26790.3	28898.0	32448.5	35817.2	37898.3	39753.3	40101.3	39999.4	36533.1
37.5°	24312.6	24445.5	25699.9	28406.0	32561.5	37005.2	39795.5	42641.2	43691.7	43385.8	39906.3
40°	22965.1	23062.6	24523.1	27375.4	32435.2	37785.3	41659.3	45837.0	47109.2	46945.2	43255.1
42.5°	21263.0	21524.5	22987.2	26059.0	31785.8	38270.7	43383.6	49460.6	51309.0	51528.4	46331.3
45°	19829.0	19822.4	21181.0	24153.0	30609.0	38385.9	44970.5	53124.1	55828.0	55415.8	50398.1
47.5°	18142.4	18211.1	19629.6	22255.8	28873.6	38020.2	46207.1	57454.7	60191.8	59968.0	53733.6
50°	14239.6	14733.8	17419.9	20624.7	26526.6	37000.7	47237.7	61672.3	64285.3	64387.3	56765.5
52.5°	12276.0	12466.6	13949.2	18982.4	24443.3	35289.8	48368.0	66417.4	68241.4	67982.1	60207.4
55°	11489.2	11591.1	12302.5	16032.5	22428.7	32641.3	48911.0	70750.2	71326.4	71284.3	63039.8
57.5°	10919.6	10997.2	11502.5	13379.7	20216.9	29241.5	48452.2	73569.3	74464.7	74189.8	65712.6
60°	10097.4	10159.4	10912.9	12056.5	17940.8	25808.5	45630.9	74848.1	76740.8	76638.8	68075.1
62.5°	9479.0	9585.4	10006.5	11079.2	15997.1	22980.6	42268.8	74449.2	78234.6	78325.4	69879.2
65°	8825.2	8920.5	9277.3	10214.8	14235.1	21121.1	38643.0	72450.1	77547.5	77789.1	70171.7
67.5°	8018.5	8091.6	8514.9	9326.1	12176.2	19261.7	34554.0	68915.1	73735.5	74513.4	67259.6
70°	7003.4	7030.0	7548.6	8100.5	10110.7	16458.1	27475.2	63128.4	68219.2	68234.7	61761.0
72.5°	5573.9	5596.1	5733.5	6152.4	7595.2	13025.1	20194.7	52747.4	61512.7	61399.7	54890.5
75°	3789.8	3984.9	4461.4	4860.3	5478.6	9146.6	12559.6	35538.0	52115.7	53002.2	45087.9
77.5°	2994.2	3011.9	3209.2	3574.9	4109.0	6832.8	7038.9	19662.8	38853.5	40961.2	35440.5
80°	2087.7	2118.8	2012.4	2101.0	2865.6	4676.3	4113.4	8557.0	16203.2	17300.3	21278.5
82.5°	995.1	1030.6	1183.5	1099.3	1425.1	1988.0	2172.0	4421.5	6999.0	7183.0	8284.4
85°	656.0	656.0	658.2	622.8	831.1	866.6	986.2	1886.1	3417.5	3532.7	3512.8
87.5°	210.5	232.7	226.1	263.7	319.1	288.1	301.4	591.7	1172.4	1161.3	970.7
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°	18982.4	18982.4	18982.4	18982.4	18982.4	18982.4	18982.4	18982.4	18982.4	18982.4	18982.4
2.5°	19009.0	18918.1	18705.4	18519.2	18335.3	18195.6	18075.9	17916.4	17841.0	17772.3	17916.4
5°	19064.4	18902.6	18521.4	18140.2	17790.0	17533.0	17375.6	17260.4	17156.2	17156.2	17205.0
7.5°	19128.7	18909.3	18364.1	17823.3	17298.0	17005.5	16781.6	16635.4	16551.2	16555.6	16659.7
10°	19170.8	18833.9	18184.5	17455.4	16883.6	16413.7	16194.3	15983.8	15824.2	15728.9	15835.3
12.5°	19219.5	18809.5	17943.0	17120.7	16424.8	15892.9	15436.4	15279.0	15123.9	15004.2	15061.8
15°	19521.0	18902.6	17741.3	16695.2	15888.5	15225.8	14627.4	14339.3	14295.0	14213.0	14232.9
17.5°	20013.0	19153.1	17610.5	16174.4	15243.5	14461.2	13703.2	13330.9	13242.3	13200.1	13222.3
20°	20746.6	19629.6	17650.4	15808.7	14516.6	13641.2	12661.6	12225.0	11930.2	11947.9	12034.4
22.5°	21868.0	20398.6	17867.6	15407.6	13729.8	12581.8	11593.3	10999.4	10702.4	10638.1	10735.6
25°	23654.3	21637.5	18107.0	15024.1	12969.6	11438.2	10343.4	9700.6	9319.4	9295.1	9403.7
27.5°	25943.7	23536.9	18627.8	14691.7	12025.5	10064.1	8975.9	8426.3	8020.7	7971.9	7936.5
30°	28286.3	25646.7	19569.7	14186.4	10924.0	8645.7	7699.3	7269.4	6815.0	6631.1	6671.0
32.5°	30768.6	27612.6	20673.4	13831.8	9691.8	7397.9	6575.7	6165.7	5749.0	5483.1	5421.0
35°	33268.5	29567.3	21602.0	13302.1	8523.8	6407.3	5620.5	5197.2	4833.7	4616.5	4601.0
37.5°	36194.0	31601.9	22346.7	12739.2	7311.5	5631.6	4685.2	4441.4	4266.3	4075.7	4095.7
40°	39123.9	33973.3	22942.9	11808.3	6305.3	4798.2	3987.1	4035.8	4073.5	3913.9	3900.6
42.5°	41557.4	35965.7	23215.5	10602.7	5414.4	4073.5	3679.0	3900.6	4064.7	3960.5	3947.2
45°	44028.5	37643.5	23109.1	9106.7	4674.1	3727.8	3654.6	3880.7	4091.2	4066.9	4055.8
47.5°	46714.7	39842.0	22925.2	7402.4	4144.4	3694.5	3707.8	3814.2	4080.2	4124.5	4106.8
50°	49999.2	41865.5	21837.0	5764.5	3887.3	3747.7	3827.5	3772.1	3998.2	4089.0	4104.5
52.5°	53268.2	43423.5	20380.9	4995.5	3785.4	3798.7	3993.7	3805.3	3905.1	3984.9	4058.0
55°	55790.3	45010.4	18025.0	4532.3	3752.2	3823.1	4040.3	3876.3	3874.1	3874.1	3898.4
57.5°	58372.3	47135.8	15669.1	4233.1	3694.5	3849.7	3984.9	3889.6	3858.5	3814.2	3785.4
60°	60169.7	47922.5	12641.6	4035.8	3634.7	3812.0	3829.7	3816.4	3721.1	3679.0	3645.8
62.5°	61765.4	48350.3	9842.5	3809.8	3552.7	3723.3	3630.3	3601.4	3546.0	3444.1	3461.8
65°	61337.7	47432.7	7499.9	3554.9	3495.1	3617.0	3455.2	3386.5	3390.9	3284.5	3320.0
67.5°	58585.0	43317.1	5385.6	3164.8	3337.7	3406.4	3255.7	3204.7	3129.4	3076.2	3124.9
70°	53024.4	38399.2	3632.5	2626.3	2978.7	3127.2	3027.4	2938.8	2821.3	2785.9	2839.0
72.5°	44629.2	32054.0	2506.6	2112.1	2570.9	2763.7	2726.0	2635.2	2550.9	2637.4	2741.5
75°	36663.9	23714.2	2045.6	1730.9	1976.9	2302.7	2413.5	2440.1	2692.8	3535.0	3621.4
77.5°	26391.4	14700.6	1839.5	1407.3	1578.0	1841.7	2063.4	2154.2	3289.0	3149.3	3142.7
80°	15387.6	8568.1	1402.9	1110.4	1276.6	1349.7	1613.4	2528.8	2836.8	2433.5	2373.6
82.5°	7021.2	3781.0	977.4	888.7	886.5	893.2	1099.3	2433.5	2176.4	1917.1	1846.2
85°	2582.0	1329.8	594.0	514.2	589.5	512.0	720.3	1784.1	1261.1	1241.1	1035.0
87.5°	636.1	272.6	201.7	168.4	137.4	130.8	219.4	587.3	308.1	281.5	270.4
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)