

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: P510626

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

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-15)  
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-T2-HSS  
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: 96642 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

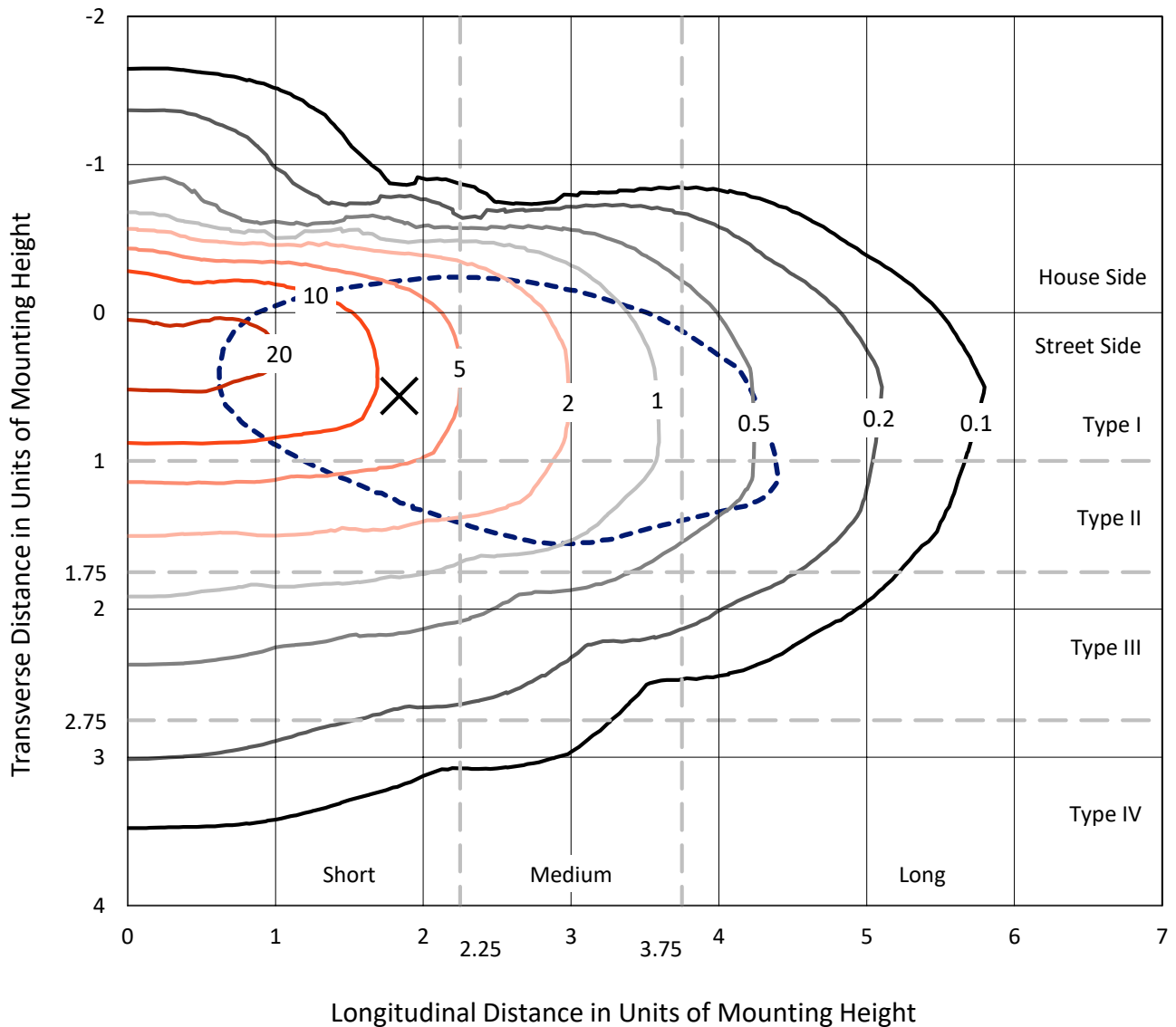
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

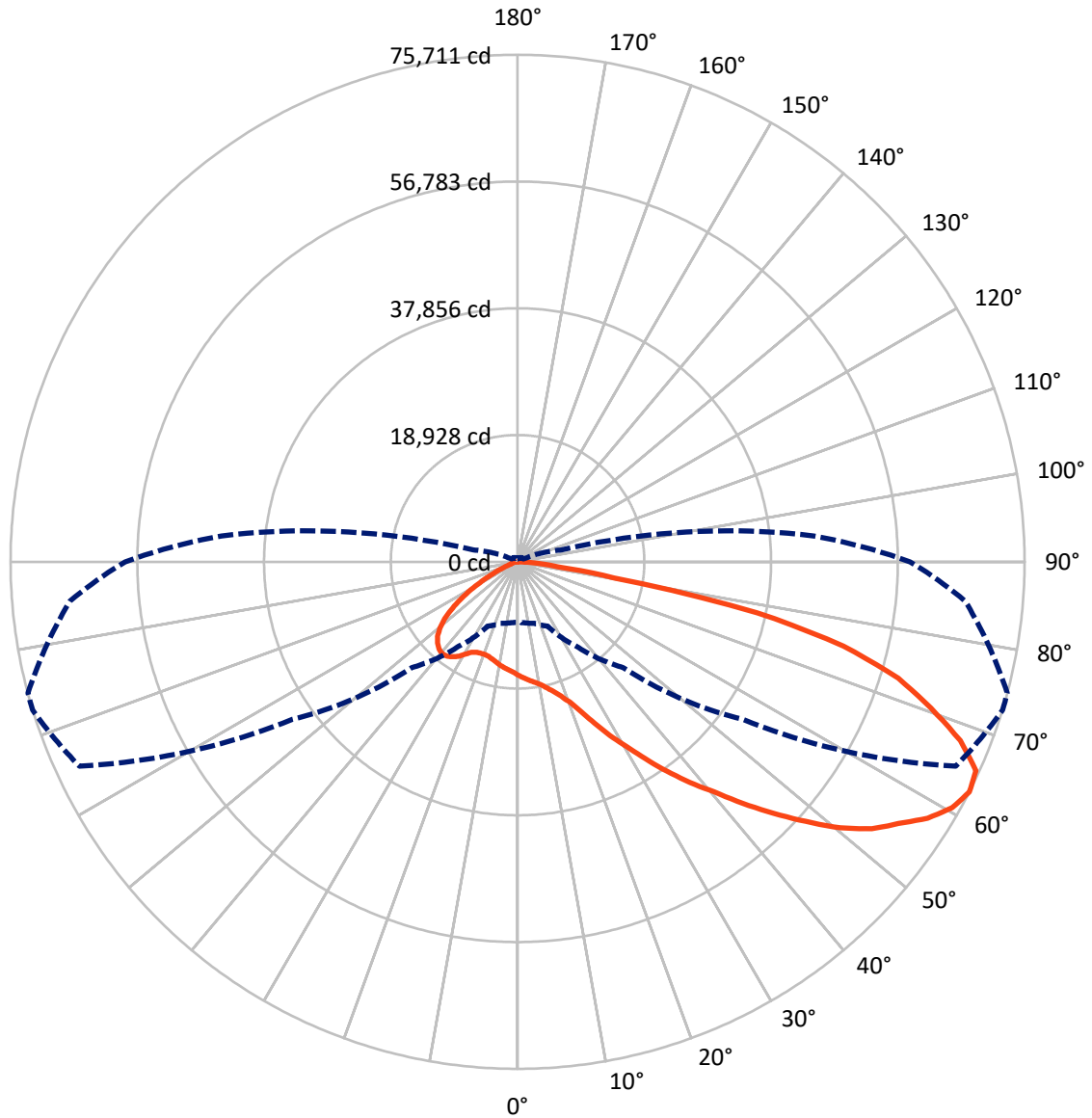
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 23.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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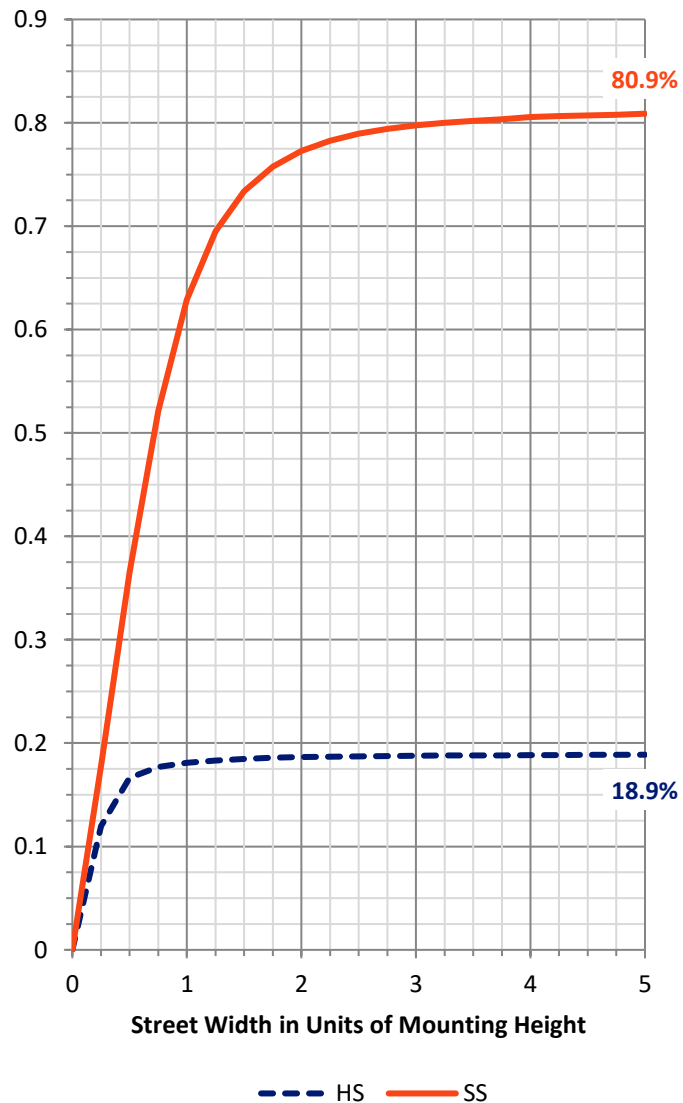
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18487.2	0.0	18487.2
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	78154.8	0.0	78154.8
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	96642.0	0.0	96642.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1618.8	1.7
10°-20°	4869.1	5.0
20°-30°	8412.8	8.7
30°-40°	12650.7	13.1
40°-50°	16868.5	17.5
50°-60°	19866.0	20.6
60°-70°	19750.3	20.4
70°-80°	11339.1	11.7
80°-90°	1266.7	1.3
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°	96642.0	100.0
0°-180°	96642.0	100.0

**Coefficient of Utilization**

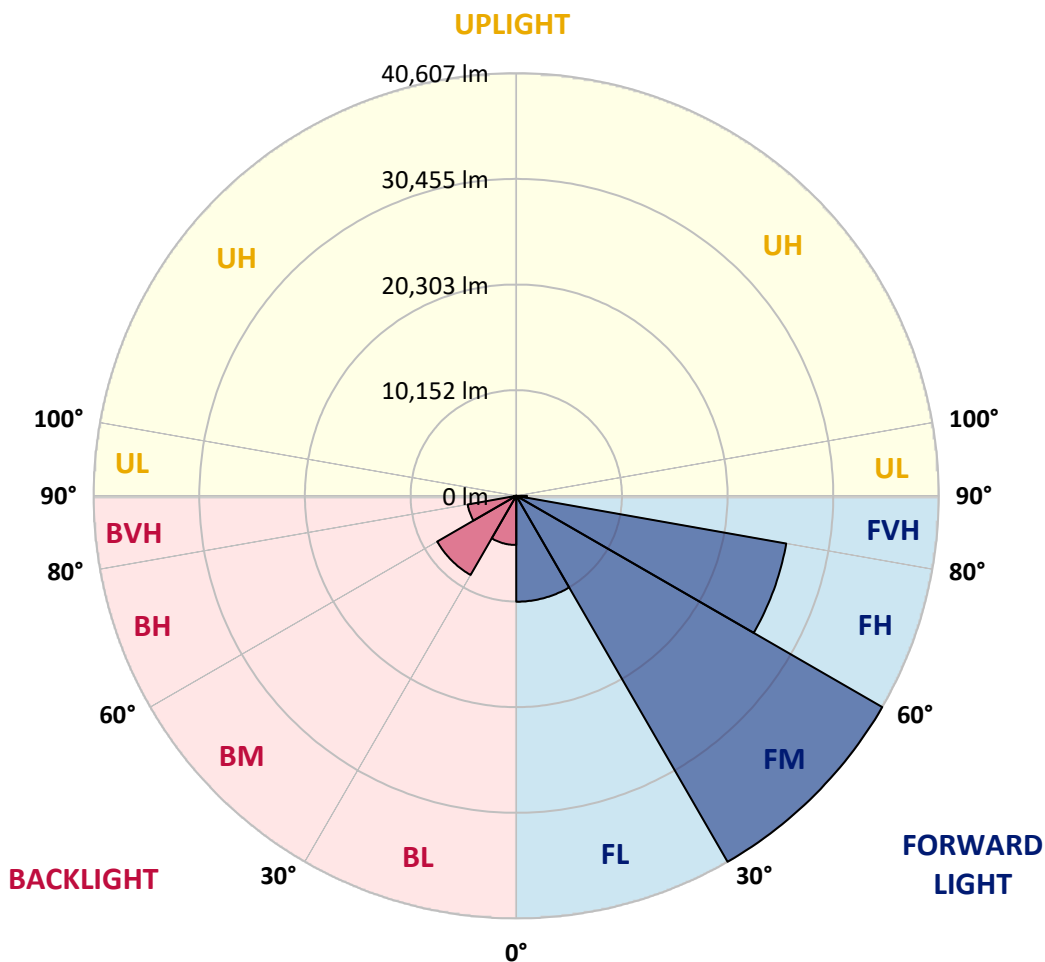


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10176.3	10.5			
FM (30°-60°)	40606.6	42.0			
FH (60°-80°)	26343.1	27.3			G5
FVH (80°-90°)	1028.8	1.1			G5
BL (0°-30°)	4724.3	4.9	B4/5000		
BM (30°-60°)	8778.6	9.1	B5		
BH (60°-80°)	4746.4	4.9	B4/5000		G4/5000
BVH (80°-90°)	237.9	0.2			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°	73°	75°	85°
0°	16948.8	16948.8	16948.8	16948.8	16948.8	16948.8	16948.8	16948.8	16948.8	16948.8	16948.8
2.5°	18133.2	18178.8	18124.6	18100.7	18074.7	17905.5	17708.1	17506.3	17343.6	17317.6	17105.0
5°	19406.6	19430.5	19341.6	19239.6	19063.9	18784.0	18430.4	18081.2	17755.8	17669.0	17280.7
7.5°	20385.0	20339.4	20317.7	20231.0	20076.9	19768.9	19233.1	18660.4	18157.1	18035.6	17445.6
10°	21302.6	21283.1	21118.2	21009.8	20764.6	20480.4	20040.1	19313.4	18604.0	18408.8	17588.8
12.5°	22296.2	22252.8	22185.5	21951.2	21751.7	21272.2	20740.8	20079.1	19289.5	19029.2	17833.9
15°	23189.9	23072.8	23035.9	22790.8	22589.0	22222.4	21688.7	20920.8	20076.9	19853.5	18300.3
17.5°	24040.3	23986.0	23903.6	23736.6	23511.0	23229.0	22801.6	21979.4	21107.4	20782.0	19092.1
20°	24762.7	24695.4	24623.8	24669.4	24619.5	24439.4	24170.4	23469.7	22404.6	22090.1	20055.3
22.5°	25265.9	25263.8	25550.1	25717.2	25812.6	25806.1	25741.0	25344.0	24272.4	23953.5	21495.7
25°	25684.6	25717.2	26079.4	26715.0	27283.4	27335.5	27795.3	27606.6	26695.5	26363.6	23662.8
27.5°	25808.3	25873.3	26530.6	27530.7	28394.1	29222.8	29897.4	30242.3	29398.5	29001.5	25992.7
30°	25897.2	25923.2	26567.5	27765.0	29585.0	30897.5	32103.6	32687.1	31960.4	31669.7	28589.3
32.5°	25270.3	25279.0	26266.0	28079.5	30459.3	32734.9	34162.3	35262.1	35071.2	34687.2	31428.9
35°	24406.9	24567.4	25699.8	27775.8	31179.5	34422.6	36366.3	38006.3	38388.1	38112.6	34266.4
37.5°	23339.6	23465.4	24678.1	27324.6	31337.8	35583.2	38080.0	40796.0	41793.9	41748.3	37691.7
40°	22027.2	22181.2	23632.4	26352.8	31259.7	36427.0	40091.0	43885.1	45152.0	45008.8	41088.9
42.5°	20476.1	20701.7	22109.6	25103.2	30689.2	36943.3	41737.5	47030.6	49310.5	49217.3	44095.5
45°	18942.4	19063.9	20348.1	23363.5	29639.3	37110.4	43286.4	51364.9	53575.4	53471.3	47718.3
47.5°	17361.0	17467.3	18807.9	21530.4	27817.0	36774.1	44512.0	55087.4	57920.5	57816.4	51317.2
50°	13681.8	14083.1	16831.7	19918.6	25741.0	35821.8	45668.3	59725.4	62467.4	62024.9	54469.2
52.5°	11705.6	11850.9	13276.2	18293.8	23669.3	34197.0	46440.6	64022.8	66207.3	65569.5	57692.8
55°	10942.0	11039.6	11738.1	15298.0	21723.5	31739.2	47349.5	68331.0	69012.2	68849.5	60322.0
57.5°	10362.8	10471.3	10970.2	12777.2	19673.5	28294.3	47065.3	71361.6	72214.1	71693.5	63113.9
60°	9542.8	9675.1	10336.8	11471.3	17343.6	24797.4	44564.1	72602.4	74541.8	73956.1	65237.6
62.5°	9026.5	9113.3	9492.9	10592.7	15412.9	22337.4	41004.3	72203.3	75711.0	75689.3	67079.4
65°	8325.8	8453.8	8859.5	9751.0	13694.8	20430.5	37646.2	70231.4	75207.8	75227.3	67459.0
67.5°	7592.6	7644.6	8069.8	8785.7	11670.9	18684.3	33301.1	66858.1	71287.8	71734.7	64831.9
70°	6677.1	6651.1	7111.0	7633.8	9538.4	15864.2	26804.0	60857.8	65495.8	65680.1	59519.3
72.5°	5254.1	5277.9	5405.9	5768.2	7241.2	12484.4	19450.0	51416.9	59441.2	59768.8	52729.4
75°	3531.6	3570.7	4167.2	4520.8	5208.5	8972.3	12230.6	34706.8	50249.9	51174.0	43156.2
77.5°	2694.3	2718.1	2891.7	3277.8	3768.1	6395.1	6629.4	18912.0	36583.2	38776.4	33760.9
80°	1909.0	1917.7	1746.3	1553.2	2006.6	4338.6	3915.6	8054.6	14577.8	17226.5	19829.6
82.5°	854.7	841.7	991.4	824.3	1156.2	1679.0	1848.3	3909.1	6054.5	6507.9	7085.0
85°	397.0	444.7	509.8	427.4	687.7	648.6	720.2	1666.0	2837.5	3132.5	3115.1
87.5°	97.6	106.3	134.5	171.4	249.5	221.3	216.9	490.3	633.4	631.3	969.7
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°	16948.8	16948.8	16948.8	16948.8	16948.8	16948.8	16948.8	16948.8	16948.8	16948.8	16948.8
2.5°	16959.7	16846.8	16580.0	16321.9	16076.7	15914.0	15731.8	15540.9	15426.0	15371.7	15488.9
5°	17044.3	16829.5	16319.7	15807.8	15373.9	15002.9	14742.6	14521.4	14402.0	14412.9	14419.4
7.5°	17115.8	16814.3	16100.6	15378.2	14701.4	14241.5	13900.9	13662.3	13525.6	13421.5	13499.6
10°	17178.8	16751.4	15844.6	14881.5	14146.1	13464.9	13002.8	12714.3	12462.7	12321.7	12432.3
12.5°	17246.0	16727.5	15558.3	14436.7	13484.4	12723.0	12089.6	11803.2	11555.9	11449.6	11516.9
15°	17538.9	16818.6	15291.5	13913.9	12831.5	11846.6	11163.3	10811.8	10616.6	10488.6	10516.8
17.5°	18042.1	17059.4	15120.1	13367.3	12102.6	11061.3	10176.2	9766.2	9443.0	9351.9	9328.0
20°	18758.0	17517.2	15120.1	12905.2	11276.1	10189.2	9169.7	8477.7	7974.4	7785.6	7931.0
22.5°	19959.8	18295.9	15269.8	12486.5	10564.5	9284.6	8069.8	7013.4	6334.4	6058.9	6219.4
25°	21641.0	19499.9	15512.7	12119.9	9915.9	8243.4	6675.0	5460.1	4711.7	4384.2	4379.8
27.5°	23836.4	21341.7	16003.0	11820.6	9139.3	6896.2	5219.4	4050.1	3347.2	3149.8	3178.0
30°	26270.3	23337.4	16929.3	11386.7	8195.6	5388.6	3800.6	2976.3	2481.7	2221.4	2225.7
32.5°	28617.5	25404.8	18029.1	11104.7	6970.0	4063.1	2709.5	2123.8	1815.7	1661.7	1685.6
35°	31133.9	27187.9	18847.0	10631.8	5531.7	2937.2	1915.5	1592.3	1464.3	1384.0	1388.4
37.5°	33852.1	29149.0	19519.4	9998.3	4182.4	2017.5	1414.4	1364.5	1310.3	1208.3	1199.6
40°	36691.7	31420.3	19920.8	8974.4	2906.9	1397.0	1201.8	1258.2	1227.8	1095.5	1084.7
42.5°	39099.6	33173.1	20020.5	7618.6	1880.8	1132.4	1089.0	1175.8	1182.3	1047.8	1030.4
45°	41412.1	34735.0	19825.3	5833.3	1303.8	1065.1	1019.6	1138.9	1147.6	1026.1	997.9
47.5°	44000.1	36871.7	19471.7	3891.7	1078.1	1006.6	995.7	1078.1	1108.5	1008.7	974.0
50°	47143.4	38609.4	18423.9	2390.6	1017.4	969.7	969.7	1019.6	1060.8	974.0	956.7
52.5°	50367.0	40123.5	16872.9	1640.0	980.5	930.6	958.8	980.5	995.7	917.6	932.8
55°	52677.3	41466.3	14560.4	1318.9	958.8	904.6	971.9	928.5	906.8	839.5	824.3
57.5°	55241.4	43062.9	12195.9	1169.3	930.6	919.8	928.5	846.0	785.3	715.9	700.7
60°	57031.1	43922.0	9302.0	1099.8	898.1	904.6	856.9	746.2	635.6	585.7	574.9
62.5°	58593.0	44412.3	6818.1	1010.9	867.7	865.6	776.6	637.8	522.8	468.6	459.9
65°	58356.6	43646.5	4418.9	939.3	843.9	815.7	696.3	546.7	436.0	394.8	390.5
67.5°	55755.6	40258.0	2783.2	865.6	802.6	752.8	624.8	488.1	401.3	353.6	349.3
70°	50295.4	35578.8	1702.9	770.1	713.7	666.0	553.2	457.7	379.6	323.2	312.4
72.5°	42748.4	30472.3	1204.0	679.0	622.6	566.2	468.6	436.0	362.3	290.7	282.0
75°	35121.1	22445.8	1008.7	592.2	531.5	455.6	399.2	405.7	340.6	264.7	258.1
77.5°	24732.3	13994.2	939.3	483.8	418.7	362.3	344.9	371.0	312.4	243.0	236.5
80°	14434.6	7859.4	776.6	381.8	314.5	279.8	288.5	314.5	273.3	219.1	210.4
82.5°	5826.8	3110.8	546.7	297.2	229.9	223.4	236.5	256.0	225.6	184.4	180.1
85°	2080.4	971.9	310.2	195.2	147.5	154.0	151.9	182.2	162.7	134.5	132.3
87.5°	546.7	193.1	138.8	78.1	62.9	62.9	58.6	84.6	78.1	60.7	67.2
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)