

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: P481269

Luminaire Tested: **IFLD-L-SA8C-735-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481269  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-735-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

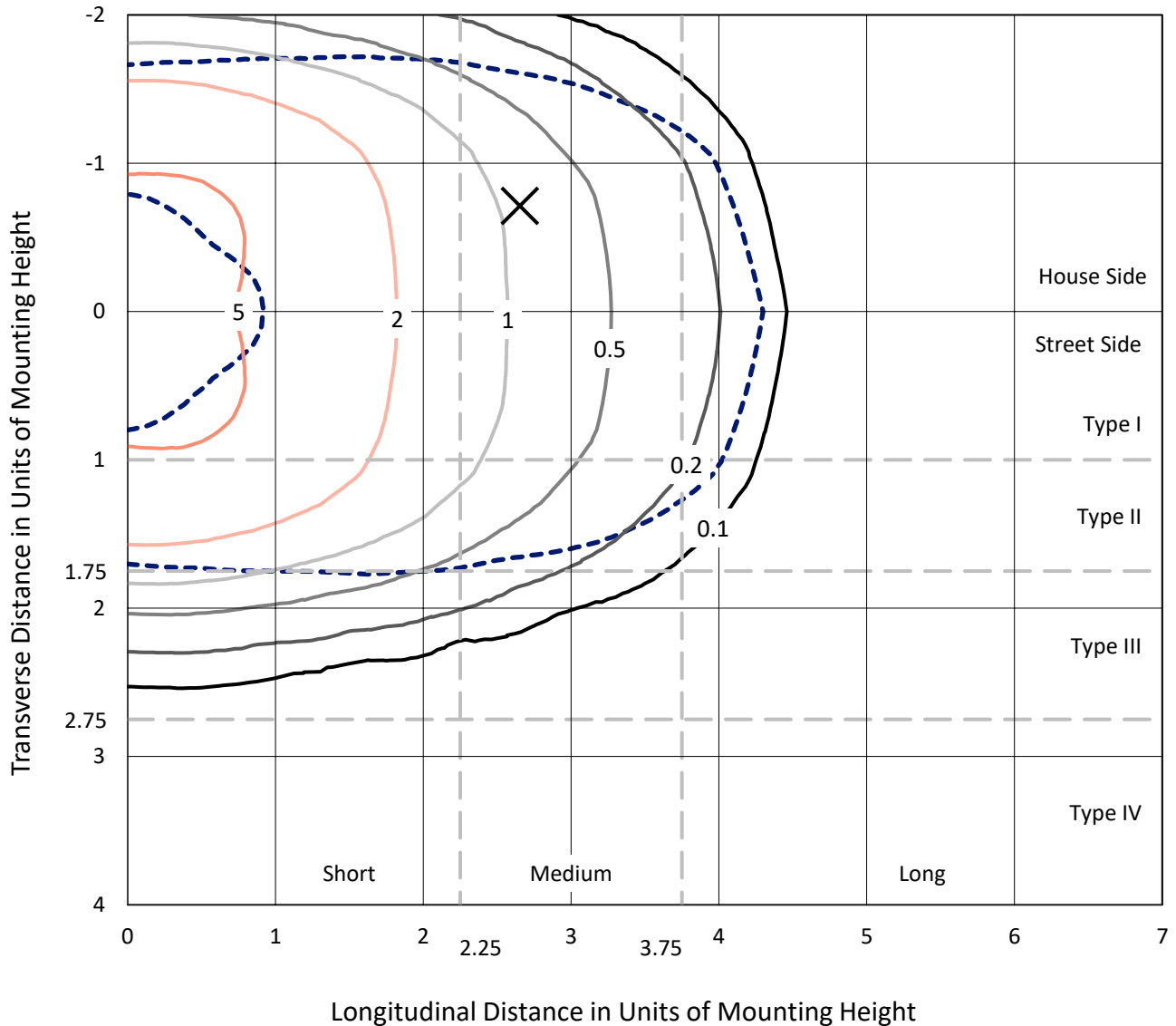
Lumens per Lamp: N/A  
Luminaire Lumens: 51470.4 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 420.3  
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

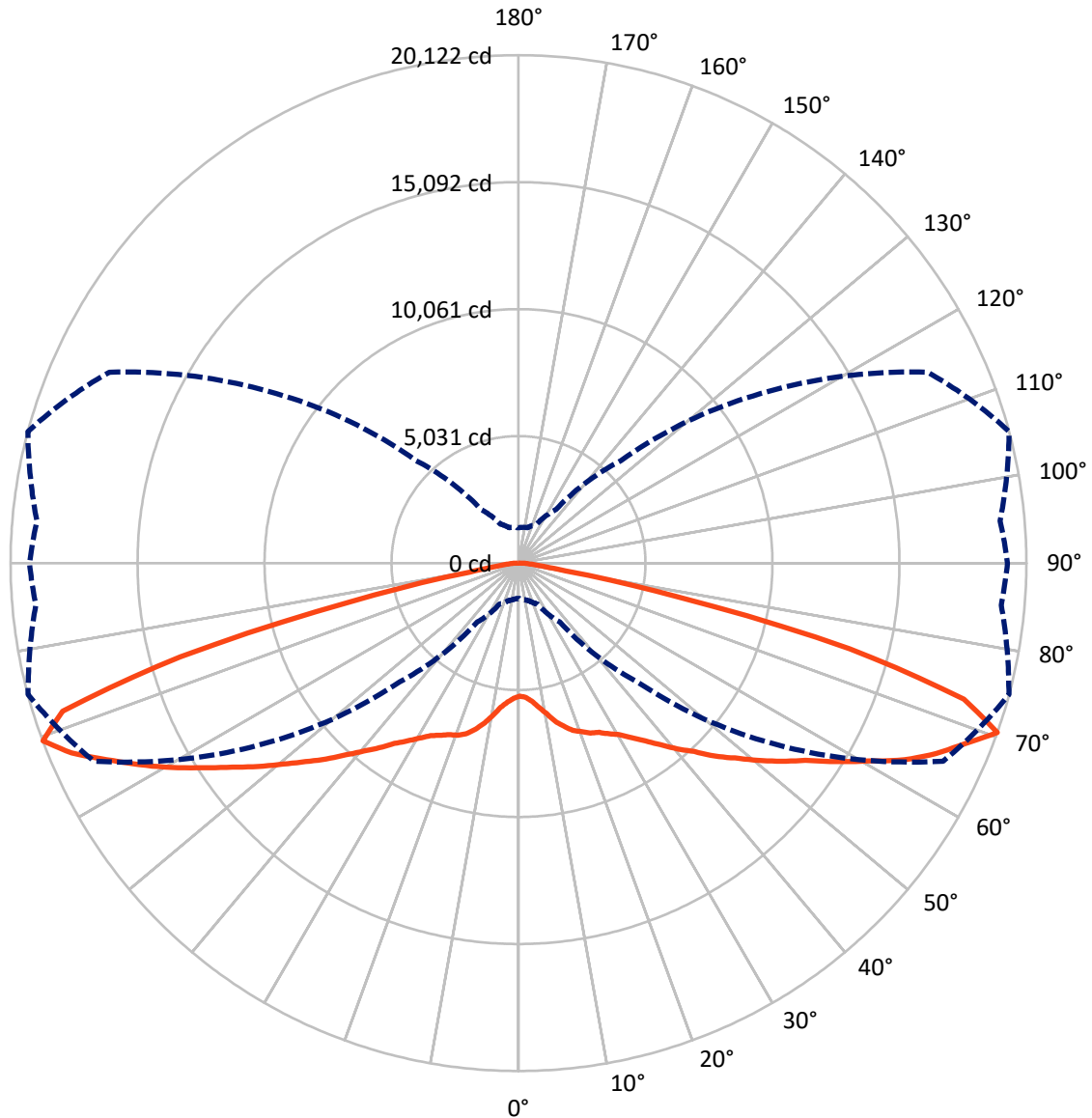
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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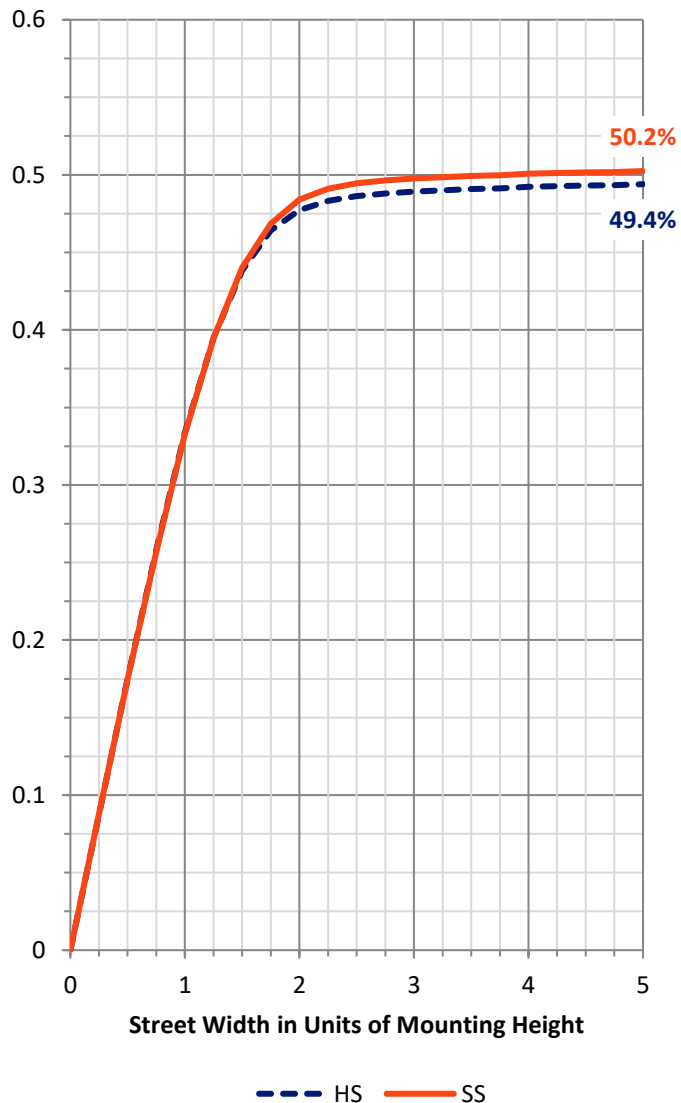
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25552.1	0.0	25552.1
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	25918.3	0.0	25918.3
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	51470.4	0.0	51470.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.6	1.0
10°-20°	1786.2	3.5
20°-30°	3458.7	6.7
30°-40°	5850.1	11.4
40°-50°	9332.6	18.1
50°-60°	12774.3	24.8
60°-70°	12040.6	23.4
70°-80°	5304.2	10.3
80°-90°	399.1	0.8
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°	51470.4	100.0
0°-180°	51470.4	100.0

**Coefficient of Utilization**

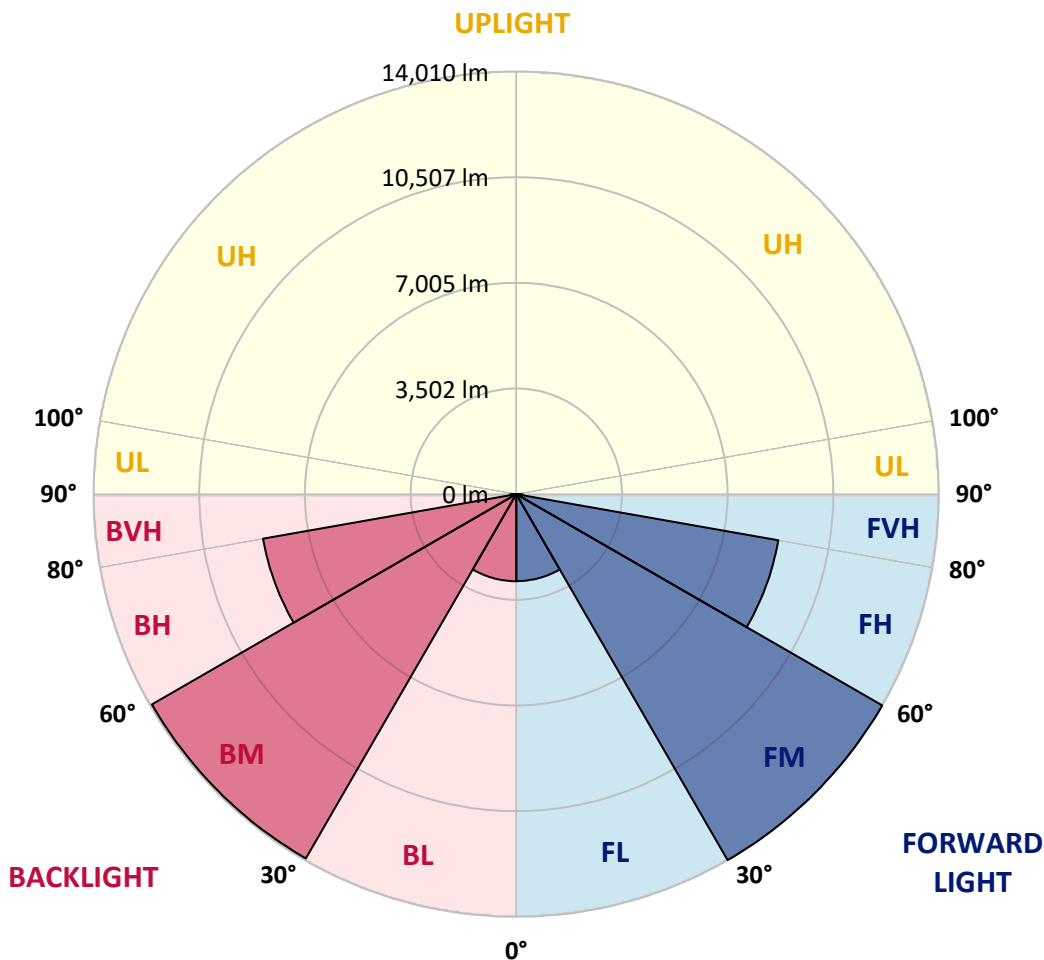


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2883.2	5.6			
FM (30°-60°)	14009.8	27.2			
FH (60°-80°)	8821.5	17.1			G4/12000
FVH (80°-90°)	203.9	0.4			G2/225
BL (0°-30°)	2886.3	5.6	B4/5000		
BM (30°-60°)	13947.2	27.1	B5		
BH (60°-80°)	8523.4	16.6	B5		G5
BVH (80°-90°)	195.2	0.4			G2/225
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°	75°	85°	90°
0°	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5
2.5°	5237.2	5237.2	5231.7	5259.4	5287.2	5298.3	5320.4	5326.0	5359.3	5331.5	5387.0
5°	5220.6	5215.0	5259.4	5326.0	5326.0	5398.1	5442.5	5503.5	5520.2	5553.5	5564.6
7.5°	5337.1	5326.0	5303.8	5375.9	5436.9	5547.9	5608.9	5714.3	5753.2	5797.6	5847.5
10°	5409.2	5409.2	5387.0	5514.6	5570.1	5719.9	5853.0	5958.5	6108.2	6158.2	6163.7
12.5°	5420.3	5436.9	5503.5	5670.0	5825.3	6019.5	6119.3	6319.1	6468.9	6563.2	6596.5
15°	5586.7	5553.5	5625.6	5853.0	6080.5	6252.5	6430.0	6574.3	6790.6	6912.7	6990.4
17.5°	5736.5	5703.2	5836.4	6108.2	6341.3	6607.6	6762.9	6918.2	7073.6	7184.5	7190.1
20°	5975.1	6002.8	6119.3	6413.4	6718.5	6951.5	7129.1	7156.8	7234.5	7395.4	7367.6
22.5°	6269.1	6246.9	6491.1	6812.8	7145.7	7339.9	7439.7	7367.6	7328.8	7500.8	7539.6
25°	6563.2	6629.7	6851.7	7151.3	7550.7	7811.5	7839.2	7639.5	7495.2	7556.2	7539.6
27.5°	7012.6	7023.7	7256.7	7611.7	8016.7	8244.2	8227.5	7944.6	7667.2	7672.8	7683.9
30°	7589.5	7534.1	7789.3	8111.0	8510.5	8715.8	8743.5	8338.5	7966.8	7855.8	7883.6
32.5°	8144.3	8210.9	8432.8	8799.0	9093.0	9209.5	9148.5	8787.9	8305.2	8155.4	8172.1
35°	8854.5	8843.4	9148.5	9459.2	9681.1	9703.3	9653.4	9126.3	8671.4	8477.2	8399.5
37.5°	9614.5	9714.4	9914.1	10169.3	10402.3	10413.4	10141.6	9719.9	9159.6	8837.8	8932.1
40°	10463.4	10574.3	10718.6	11090.3	11262.3	11084.7	10807.3	10235.9	9653.4	9370.4	9414.8
42.5°	11212.3	11262.3	11556.3	11994.6	12077.8	12000.1	11589.6	10896.1	10219.2	9908.6	9930.8
45°	11900.3	11966.8	12349.6	12743.5	12937.7	12804.6	12327.5	11667.2	10879.4	10613.1	10507.7
47.5°	12532.7	12665.9	13037.6	13442.6	13742.2	13753.3	13165.2	12366.3	11534.1	11184.6	11179.0
50°	12959.9	13154.1	13520.3	13980.7	14419.0	14591.0	14002.9	13143.0	12249.8	11878.1	11839.2
52.5°	13192.9	13392.6	13758.8	14474.5	14962.7	15229.0	14951.6	13869.8	13087.5	12699.2	12638.1
55°	12910.0	13043.1	13642.3	14646.5	15401.0	15839.3	15656.2	14873.9	13919.7	13603.5	13658.9
57.5°	11706.1	11983.5	12721.4	13975.2	15389.9	16466.2	16449.5	15822.6	14879.5	14579.9	14591.0
60°	9636.7	9869.7	10779.6	12532.7	14768.5	16721.4	17309.5	16743.6	15955.8	15606.3	15595.2
62.5°	6801.7	7095.8	8149.9	10063.9	12937.7	16366.3	18297.0	17903.1	17009.9	16754.7	16849.0
65°	3805.9	3983.4	4959.8	6690.8	9858.6	14413.5	18474.5	19107.0	18080.6	17692.3	17708.9
67.5°	2036.1	2102.7	2557.6	3511.8	6030.6	11112.5	16682.6	19800.5	19240.1	18568.8	18463.4
70°	1398.1	1420.3	1536.8	1797.5	2851.6	6646.4	12582.7	18563.3	20111.2	19195.8	19373.3
72.5°	1181.7	1170.6	1198.3	1226.1	1492.4	2973.7	7384.3	14285.9	18984.9	18641.0	18574.4
75°	1026.4	1020.8	1031.9	1004.2	1037.5	1309.3	3267.7	8904.4	13897.5	15511.9	15761.6
77.5°	848.8	854.4	859.9	832.2	821.1	865.5	1314.9	3911.3	6840.6	7550.7	8144.3
80°	643.6	654.7	699.0	671.3	626.9	632.5	776.7	1309.3	1964.0	1780.9	1836.4
82.5°	438.3	443.8	538.1	504.9	471.6	427.2	499.3	676.8	765.6	582.5	510.4
85°	310.7	305.1	349.5	321.8	299.6	216.4	299.6	382.8	460.5	288.5	260.8
87.5°	72.1	72.1	144.2	116.5	111.0	88.8	116.5	149.8	199.7	127.6	116.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5	5270.5
2.5°	5370.4	5320.4	5320.4	5309.3	5265.0	5253.9	5215.0	5226.1	5198.4	5170.6
5°	5559.0	5492.4	5492.4	5398.1	5309.3	5298.3	5253.9	5253.9	5209.5	5220.6
7.5°	5819.8	5758.7	5658.9	5575.6	5453.6	5403.7	5320.4	5309.3	5298.3	5276.1
10°	6130.4	6052.8	5952.9	5780.9	5681.1	5586.7	5503.5	5387.0	5359.3	5364.8
12.5°	6552.1	6430.0	6213.7	6063.9	5936.3	5814.2	5692.2	5520.2	5481.3	5498.0
15°	6851.7	6696.3	6480.0	6424.5	6252.5	6102.7	5903.0	5708.8	5642.2	5625.6
17.5°	7095.8	6968.2	6840.6	6757.4	6618.7	6435.6	6158.2	5936.3	5786.5	5769.8
20°	7295.5	7129.1	7101.3	7151.3	6979.3	6857.2	6518.8	6246.9	6047.2	5964.0
22.5°	7417.6	7312.1	7389.8	7434.2	7423.1	7217.8	6868.3	6552.1	6302.4	6224.8
25°	7550.7	7428.6	7706.0	7855.8	7894.7	7556.2	7284.4	6868.3	6624.2	6574.3
27.5°	7617.3	7661.7	7983.4	8299.7	8271.9	8011.2	7645.0	7273.3	7079.1	6990.4
30°	7811.5	7883.6	8371.8	8726.9	8732.4	8477.2	8199.8	7778.2	7561.8	7523.0
32.5°	8161.0	8249.7	8771.2	9148.5	9215.1	9020.9	8743.5	8482.8	8260.8	8172.1
35°	8427.3	8654.7	9242.8	9586.8	9764.3	9647.8	9492.5	9220.6	8987.6	8909.9
37.5°	8810.1	9126.3	9692.2	10158.2	10357.9	10346.8	10230.3	9936.3	9742.1	9675.6
40°	9359.3	9675.6	10191.5	10807.3	11179.0	11162.4	11095.8	10868.4	10579.9	10546.6
42.5°	9941.8	10202.6	10873.9	11578.5	12111.1	12055.6	11878.1	11611.8	11412.0	11367.7
45°	10507.7	10912.7	11534.1	12438.4	12837.9	12976.6	12765.7	12310.8	12083.3	12055.6
47.5°	11217.9	11539.6	12316.4	13126.3	13720.0	13742.2	13381.6	12959.9	12543.8	12632.6
50°	11850.3	12277.5	13065.3	13953.0	14663.1	14407.9	13947.4	13420.4	13120.8	13004.3
52.5°	12527.2	13048.7	13964.1	14868.4	15262.3	15007.1	14258.1	13670.0	13215.1	13165.2
55°	13514.7	13786.5	14984.9	15678.4	15806.0	15267.8	14163.8	13331.6	12743.5	12599.3
57.5°	14518.9	14835.1	15883.7	16482.8	16349.7	15123.6	13553.5	12266.4	11495.3	11290.0
60°	15534.1	15922.5	16804.6	17353.9	16665.9	14130.5	11828.1	10169.3	9270.6	9087.5
62.5°	16665.9	17170.8	17958.6	18152.8	15728.3	12166.6	9387.1	7339.9	6430.0	6124.9
65°	17670.1	18186.0	19156.9	17986.3	13736.6	9076.4	6069.4	4194.2	3522.9	3278.8
67.5°	18496.7	19079.3	19556.4	15916.9	10058.4	5314.9	3162.3	2208.1	1958.4	1869.6
70°	19151.4	20122.3	17892.0	11700.5	5747.6	2590.9	1708.8	1453.6	1420.3	1398.1
72.5°	18579.9	18452.3	13359.4	6751.8	2518.7	1425.8	1237.2	1198.3	1192.8	1198.3
75°	15195.7	13553.5	7989.0	2934.8	1264.9	1031.9	1026.4	1009.7	1037.5	1037.5
77.5°	7373.2	6446.7	3339.8	1259.4	832.2	810.0	837.7	837.7	837.7	837.7
80°	1708.8	1891.8	1192.8	765.6	604.7	604.7	665.7	671.3	643.6	632.5
82.5°	582.5	776.7	654.7	482.7	399.4	449.4	504.9	516.0	427.2	432.7
85°	288.5	454.9	355.1	277.4	205.3	277.4	327.3	344.0	294.0	282.9
87.5°	133.1	199.7	133.1	94.3	72.1	99.9	94.3	77.7	44.4	44.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)