

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: P481309

Luminaire Tested: **IFLD-L-SA8D-740-U-RW**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P481309  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-740-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

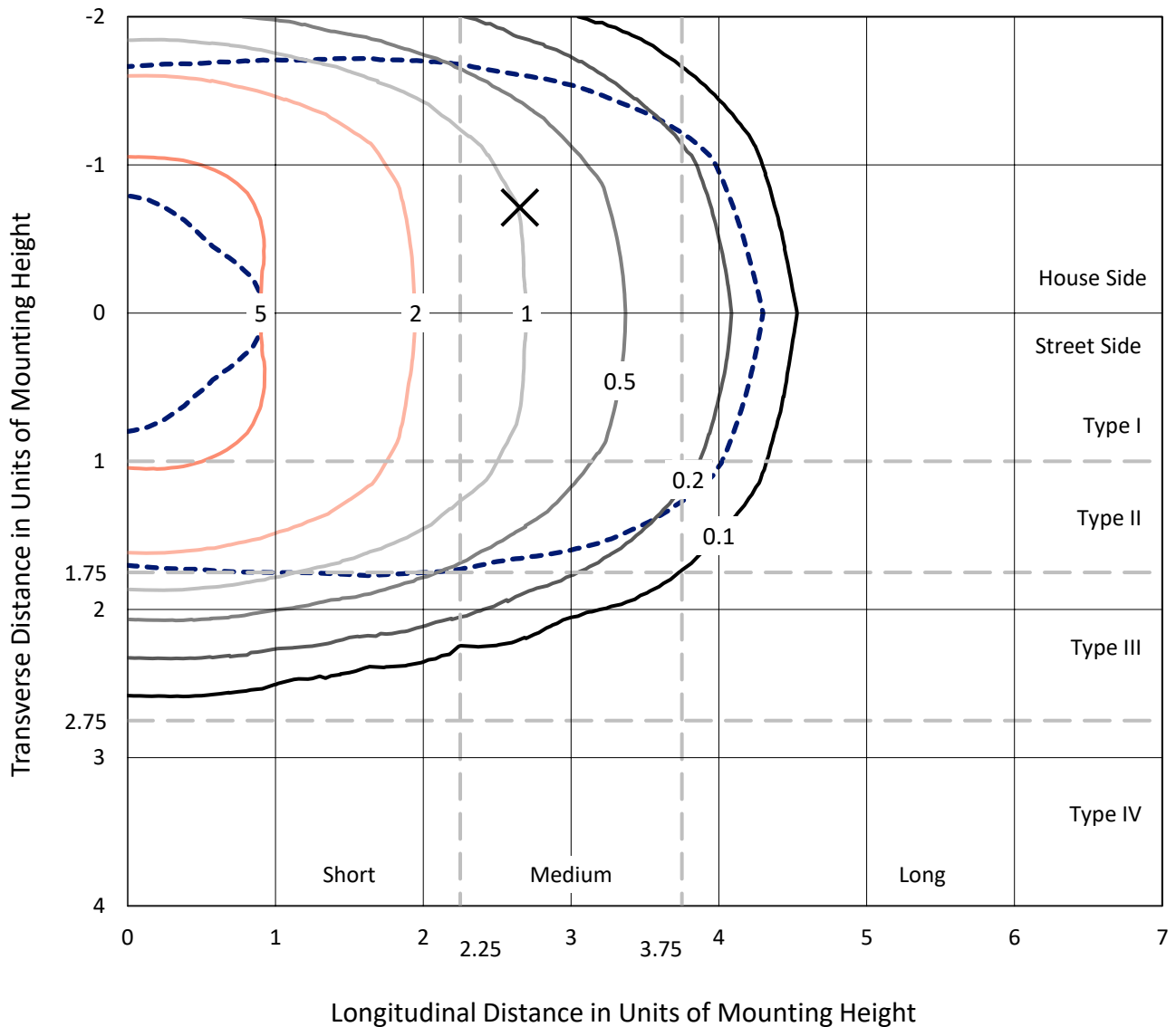
Lumens per Lamp: N/A  
Luminaire Lumens: 57421.6 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 488.3  
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

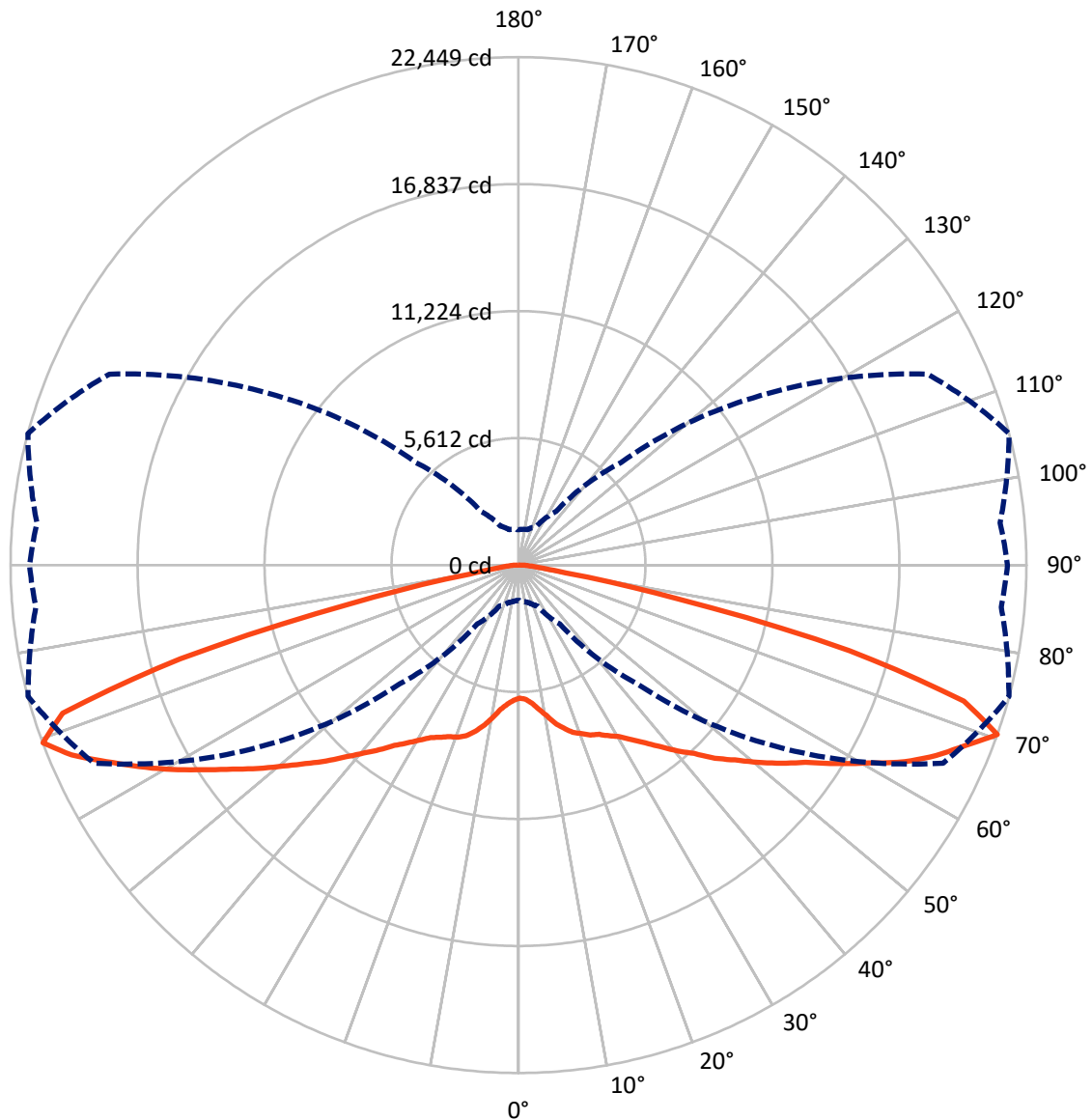
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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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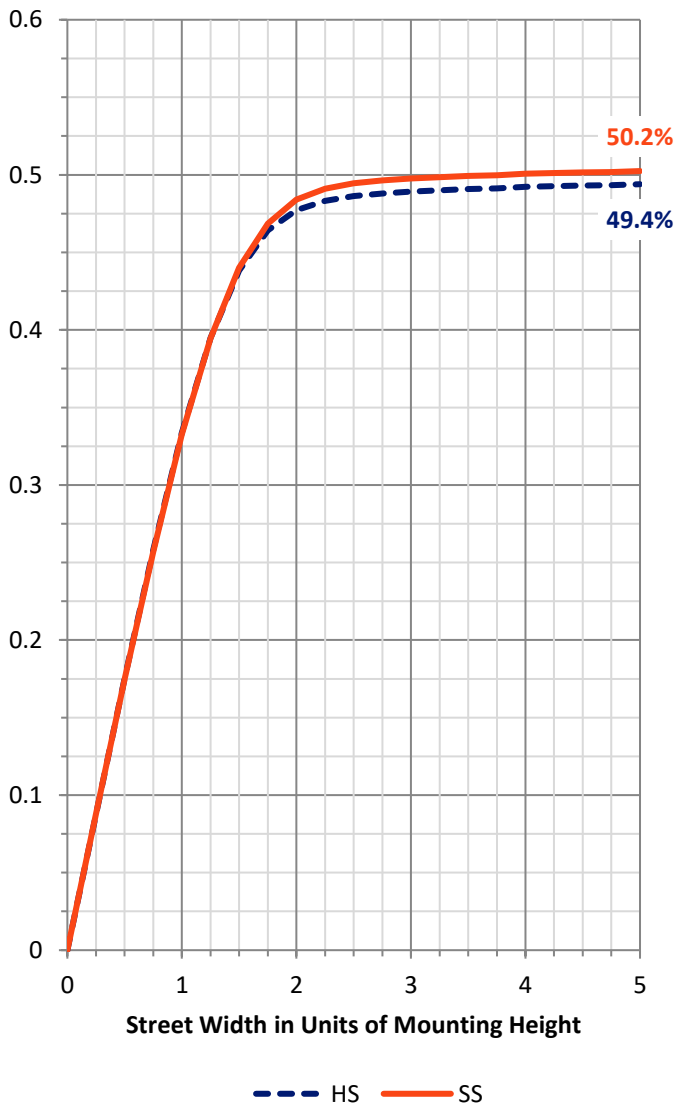
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28506.5	0.0	28506.5
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	28915.1	0.0	28915.1
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	57421.6	0.0	57421.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.3	1.0
10°-20°	1992.7	3.5
20°-30°	3858.6	6.7
30°-40°	6526.5	11.4
40°-50°	10411.7	18.1
50°-60°	14251.3	24.8
60°-70°	13432.8	23.4
70°-80°	5917.5	10.3
80°-90°	445.2	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°	57421.6	100.0
0°-180°	57421.6	100.0

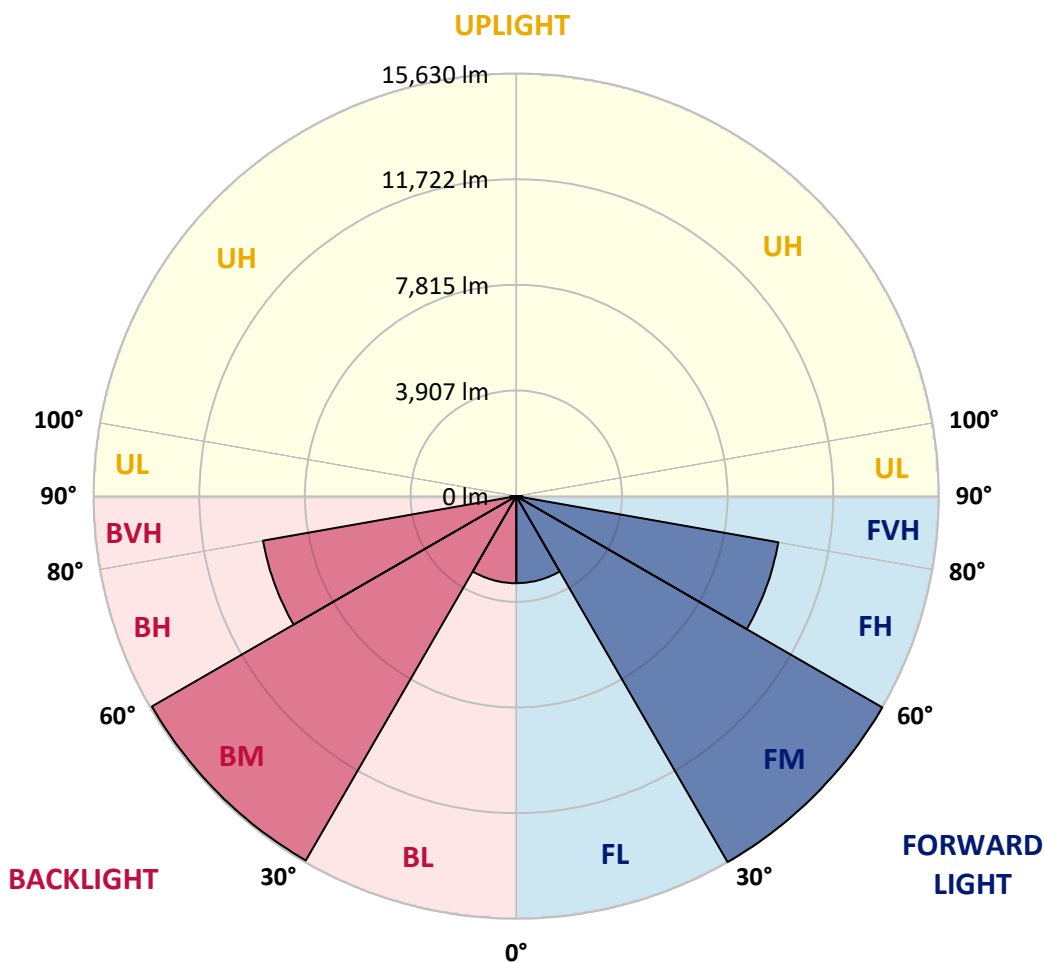


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3216.5	5.6			
FM (30°-60°)	15629.7	27.2			
FH (60°-80°)	9841.4	17.1			G4/12000
FVH (80°-90°)	227.4	0.4			G3/500
BL (0°-30°)	3220.0	5.6	B4/5000		
BM (30°-60°)	15559.8	27.1	B5		
BH (60°-80°)	9508.9	16.6	B5		G5
BVH (80°-90°)	217.8	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°	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9
2.5°	5842.8	5842.8	5836.6	5867.5	5898.5	5910.9	5935.6	5941.8	5978.9	5948.0	6009.9
5°	5824.2	5818.0	5867.5	5941.8	5941.8	6022.3	6071.8	6139.9	6158.4	6195.6	6208.0
7.5°	5954.2	5941.8	5917.1	5997.5	6065.6	6189.4	6257.5	6375.1	6418.4	6467.9	6523.6
10°	6034.7	6034.7	6009.9	6152.2	6214.1	6381.3	6529.8	6647.4	6814.5	6870.2	6876.4
12.5°	6047.0	6065.6	6139.9	6325.6	6498.9	6715.5	6826.9	7049.7	7216.8	7322.0	7359.2
15°	6232.7	6195.6	6276.0	6529.8	6783.6	6975.4	7173.5	7334.4	7575.8	7712.0	7798.6
17.5°	6399.8	6362.7	6511.2	6814.5	7074.5	7371.6	7544.9	7718.2	7891.5	8015.3	8021.4
20°	6666.0	6696.9	6826.9	7154.9	7495.3	7755.3	7953.4	7984.3	8071.0	8250.4	8219.5
22.5°	6994.0	6969.2	7241.6	7600.6	7971.9	8188.6	8300.0	8219.5	8176.2	8368.0	8411.4
25°	7322.0	7396.3	7643.9	7978.1	8423.8	8714.7	8745.6	8522.8	8361.9	8429.9	8411.4
27.5°	7823.4	7835.8	8095.7	8491.8	8943.7	9197.4	9178.9	8863.2	8553.7	8559.9	8572.3
30°	8467.1	8405.2	8689.9	9048.9	9494.5	9723.5	9754.5	9302.6	8888.0	8764.2	8795.1
32.5°	9086.0	9160.3	9407.9	9816.4	10144.4	10274.4	10206.3	9804.0	9265.5	9098.4	9117.0
35°	9878.3	9865.9	10206.3	10552.9	10800.5	10825.2	10769.5	10181.5	9674.0	9457.4	9370.7
37.5°	10726.2	10837.6	11060.4	11345.1	11605.1	11617.5	11314.2	10843.8	10218.7	9859.7	9964.9
40°	11673.2	11797.0	11957.9	12372.6	12564.5	12366.4	12056.9	11419.4	10769.5	10453.9	10503.4
42.5°	12508.7	12564.5	12892.5	13381.4	13474.3	13387.6	12929.6	12156.0	11400.8	11054.2	11079.0
45°	13276.2	13350.5	13777.6	14217.0	14433.6	14285.1	13752.8	13016.3	12137.4	11840.3	11722.7
47.5°	13981.8	14130.4	14545.1	14996.9	15331.1	15343.5	14687.4	13796.1	12867.7	12477.8	12471.6
50°	14458.4	14675.0	15083.5	15597.2	16086.2	16278.1	15622.0	14662.7	13666.2	13251.5	13208.1
52.5°	14718.4	14941.2	15349.7	16148.1	16692.8	16989.9	16680.4	15473.5	14600.8	14167.5	14099.4
55°	14402.7	14551.2	15219.7	16340.0	17181.7	17670.7	17466.4	16593.7	15529.2	15176.4	15238.3
57.5°	13059.6	13369.1	14192.3	15591.1	17169.4	18370.1	18351.5	17652.1	16599.9	16265.7	16278.1
60°	10751.0	11010.9	12026.0	13981.8	16476.1	18654.8	19310.9	18679.6	17800.7	17410.7	17398.4
62.5°	7588.2	7916.2	9092.2	11227.5	14433.6	18258.7	20412.6	19973.1	18976.7	18691.9	18797.2
65°	4245.9	4444.0	5533.3	7464.4	10998.5	16080.0	20610.7	21316.2	20171.2	19737.9	19756.5
67.5°	2271.5	2345.8	2853.3	3917.9	6727.9	12397.3	18611.5	22089.9	21464.8	20715.9	20598.3
70°	1559.7	1584.5	1714.5	2005.4	3181.3	7414.9	14037.5	20709.7	22436.5	21415.3	21613.3
72.5°	1318.3	1306.0	1336.9	1367.9	1664.9	3317.5	8238.1	15937.7	21180.1	20796.3	20722.1
75°	1145.0	1138.8	1151.2	1120.3	1157.4	1460.7	3645.5	9934.0	15504.4	17305.5	17584.0
77.5°	947.0	953.2	959.4	928.4	916.0	965.5	1466.9	4363.5	7631.5	8423.8	9086.0
80°	718.0	730.3	779.9	748.9	699.4	705.6	866.5	1460.7	2191.0	1986.8	2048.7
82.5°	489.0	495.2	600.4	563.2	526.1	476.6	557.0	755.1	854.1	649.9	569.4
85°	346.6	340.4	389.9	359.0	334.2	241.4	334.2	427.1	513.7	321.8	290.9
87.5°	80.5	80.5	160.9	130.0	123.8	99.0	130.0	167.1	222.8	142.4	130.0
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°	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9
2.5°	5991.3	5935.6	5935.6	5923.2	5873.7	5861.3	5818.0	5830.4	5799.5	5768.5
5°	6201.8	6127.5	6127.5	6022.3	5923.2	5910.9	5861.3	5861.3	5811.8	5824.2
7.5°	6492.7	6424.6	6313.2	6220.3	6084.2	6028.5	5935.6	5923.2	5910.9	5886.1
10°	6839.3	6752.6	6641.2	6449.3	6337.9	6232.7	6139.9	6009.9	5978.9	5985.1
12.5°	7309.7	7173.5	6932.1	6765.0	6622.6	6486.5	6350.3	6158.4	6115.1	6133.7
15°	7643.9	7470.6	7229.2	7167.3	6975.4	6808.3	6585.5	6368.9	6294.6	6276.0
17.5°	7916.2	7773.9	7631.5	7538.7	7383.9	7179.7	6870.2	6622.6	6455.5	6437.0
20°	8139.0	7953.4	7922.4	7978.1	7786.2	7650.1	7272.5	6969.2	6746.4	6653.6
22.5°	8275.2	8157.6	8244.3	8293.8	8281.4	8052.4	7662.5	7309.7	7031.1	6944.5
25°	8423.8	8287.6	8597.1	8764.2	8807.5	8429.9	8126.7	7662.5	7390.1	7334.4
27.5°	8498.0	8547.5	8906.5	9259.3	9228.4	8937.5	8529.0	8114.3	7897.7	7798.6
30°	8714.7	8795.1	9339.8	9735.9	9742.1	9457.4	9147.9	8677.5	8436.1	8392.8
32.5°	9104.6	9203.6	9785.4	10206.3	10280.6	10063.9	9754.5	9463.6	9216.0	9117.0
35°	9401.7	9655.4	10311.5	10695.3	10893.3	10763.3	10590.0	10286.8	10026.8	9940.2
37.5°	9828.7	10181.5	10812.9	11332.8	11555.6	11543.2	11413.2	11085.2	10868.6	10794.3
40°	10441.5	10794.3	11369.9	12056.9	12471.6	12453.0	12378.8	12125.0	11803.2	11766.0
42.5°	11091.4	11382.3	12131.2	12917.2	13511.4	13449.5	13251.5	12954.4	12731.6	12682.0
45°	11722.7	12174.5	12867.7	13876.6	14322.2	14477.0	14241.8	13734.2	13480.5	13449.5
47.5°	12514.9	12873.9	13740.4	14644.1	15306.3	15331.1	14928.8	14458.4	13994.2	14093.2
50°	13220.5	13697.1	14576.0	15566.3	16358.5	16073.8	15560.1	14972.1	14637.9	14507.9
52.5°	13975.6	14557.4	15578.7	16587.6	17027.0	16742.3	15906.7	15250.6	14743.1	14687.4
55°	15077.3	15380.6	16717.5	17491.2	17633.6	17033.2	15801.5	14873.1	14217.0	14056.1
57.5°	16197.6	16550.4	17720.2	18388.7	18240.1	16872.3	15120.7	13684.7	12824.4	12595.4
60°	17330.3	17763.5	18747.6	19360.4	18592.9	15764.4	13195.8	11345.1	10342.5	10138.2
62.5°	18592.9	19156.1	20035.0	20251.7	17546.9	13573.3	10472.4	8188.6	7173.5	6833.1
65°	19713.2	20288.8	21371.9	20066.0	15324.9	10125.8	6771.2	4679.2	3930.3	3657.9
67.5°	20635.4	21285.3	21817.6	17757.3	11221.4	5929.4	3527.9	2463.4	2184.9	2085.8
70°	21365.8	22448.9	19960.8	13053.4	6412.2	2890.4	1906.3	1621.6	1584.5	1559.7
72.5°	20728.2	20585.9	14904.0	7532.5	2810.0	1590.7	1380.2	1336.9	1330.7	1336.9
75°	16952.7	15120.7	8912.7	3274.2	1411.2	1151.2	1145.0	1126.5	1157.4	1157.4
77.5°	8225.7	7192.1	3726.0	1405.0	928.4	903.7	934.6	934.6	934.6	934.6
80°	1906.3	2110.6	1330.7	854.1	674.6	674.6	742.7	748.9	718.0	705.6
82.5°	649.9	866.5	730.3	538.5	445.6	501.3	563.2	575.6	476.6	482.8
85°	321.8	507.5	396.1	309.5	229.0	309.5	365.2	383.7	328.0	315.7
87.5°	148.5	222.8	148.5	105.2	80.5	111.4	105.2	86.7	49.5	49.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)