

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: P476550

Luminaire Tested: **IFLD-L-SA8C-730-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476550  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-730-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

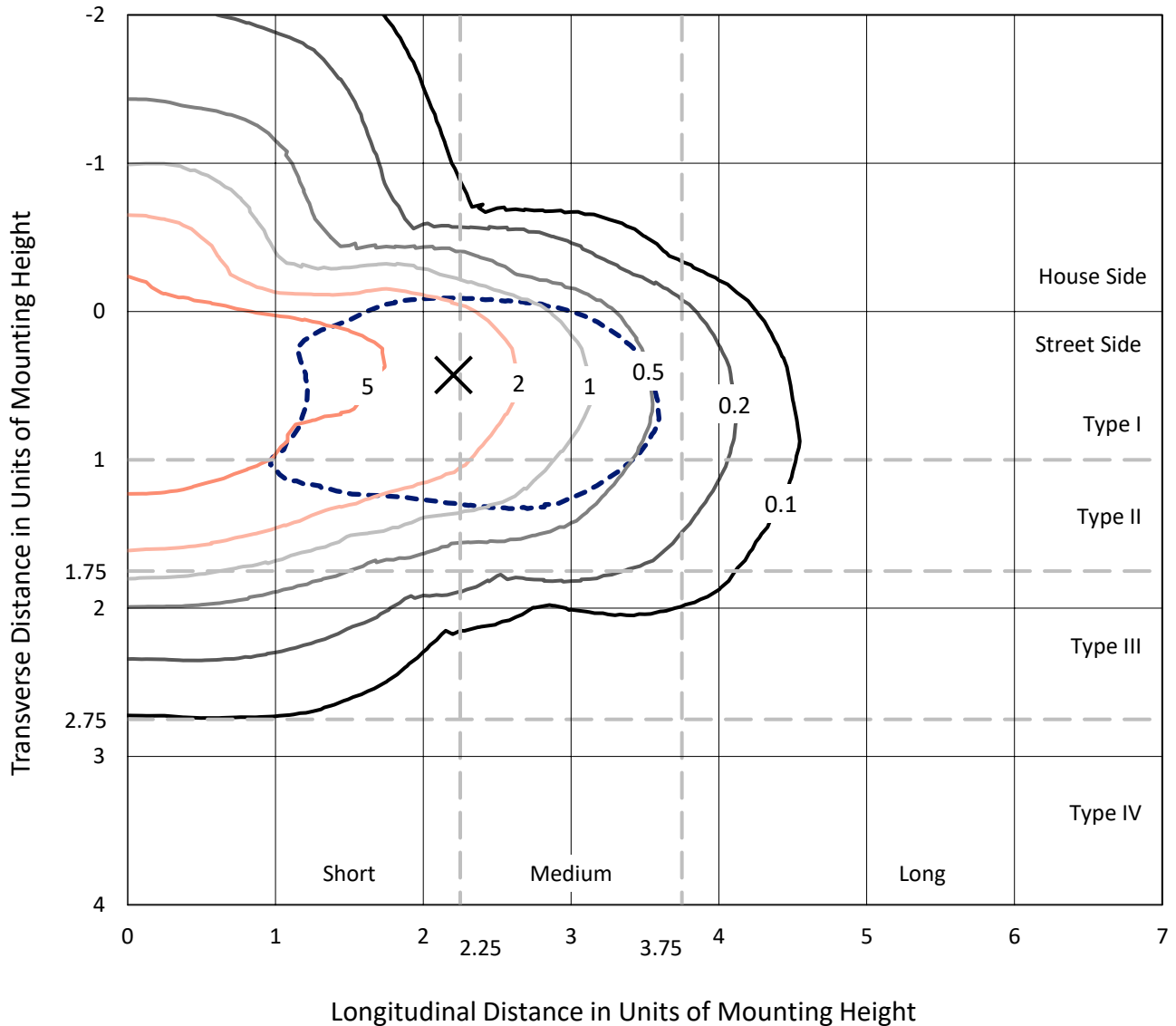
Lumens per Lamp: N/A  
Luminaire Lumens: 46078.9 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

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

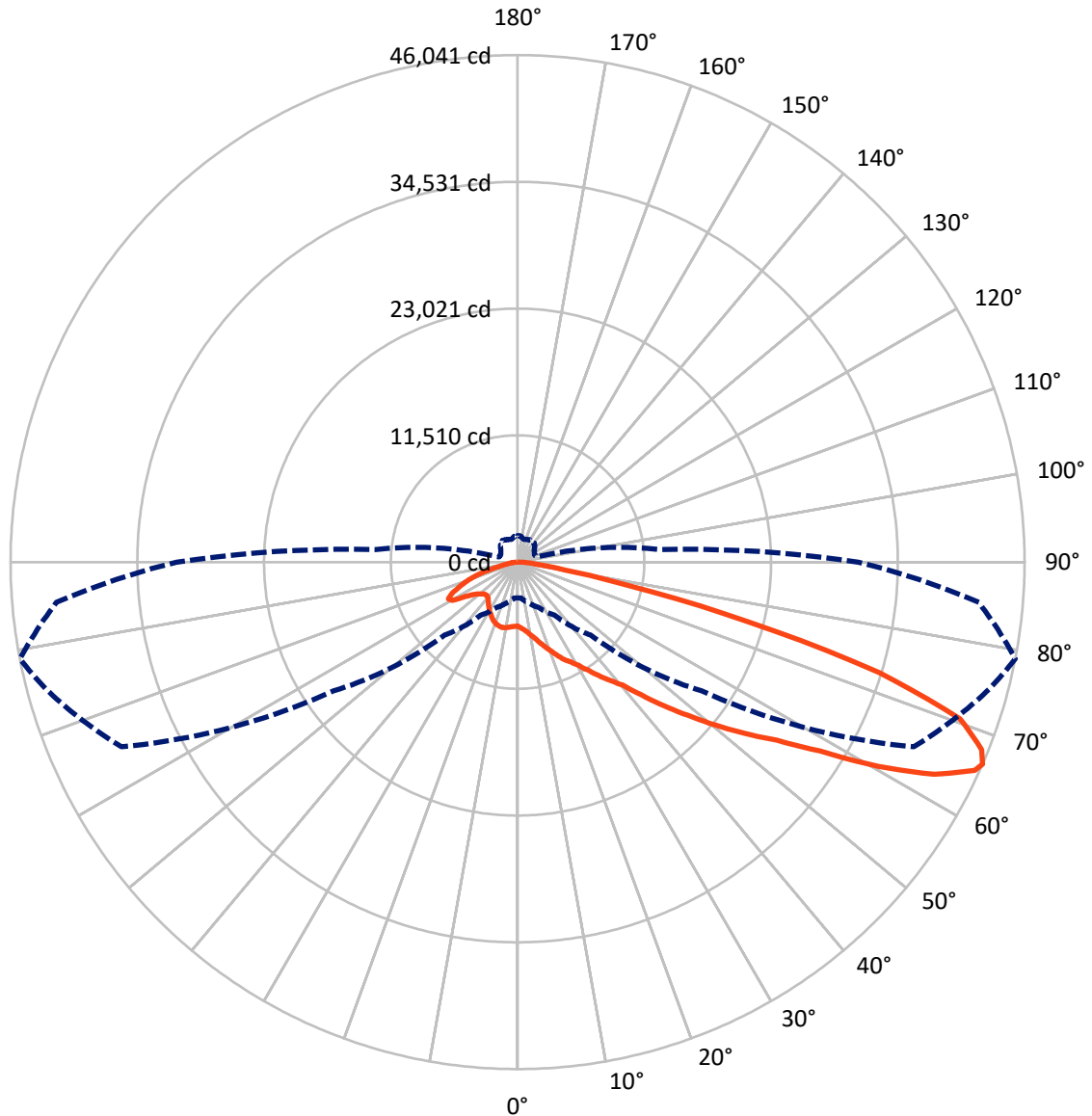
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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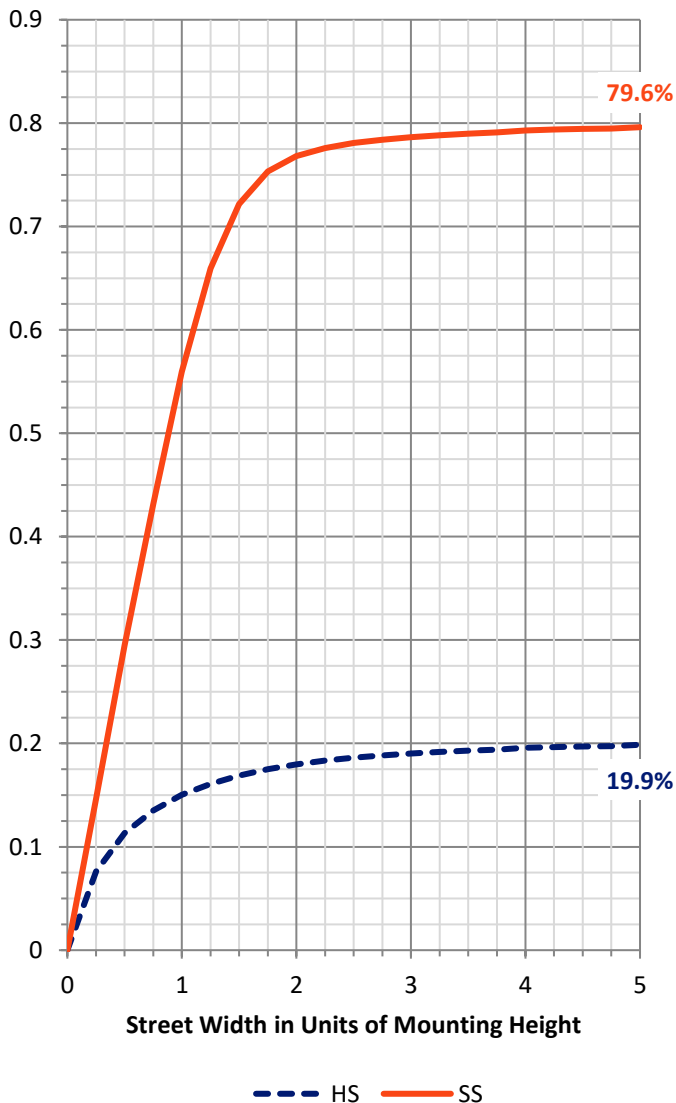
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9305.0	0.0	9305.0
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	36773.9	0.0	36773.9
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	46078.9	0.0	46078.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	572.1	1.2
10°-20°	1766.7	3.8
20°-30°	3032.6	6.6
30°-40°	4684.8	10.2
40°-50°	7503.8	16.3
50°-60°	11203.8	24.3
60°-70°	11511.9	25.0
70°-80°	5103.0	11.1
80°-90°	700.2	1.5
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°	46078.9	100.0
0°-180°	46078.9	100.0

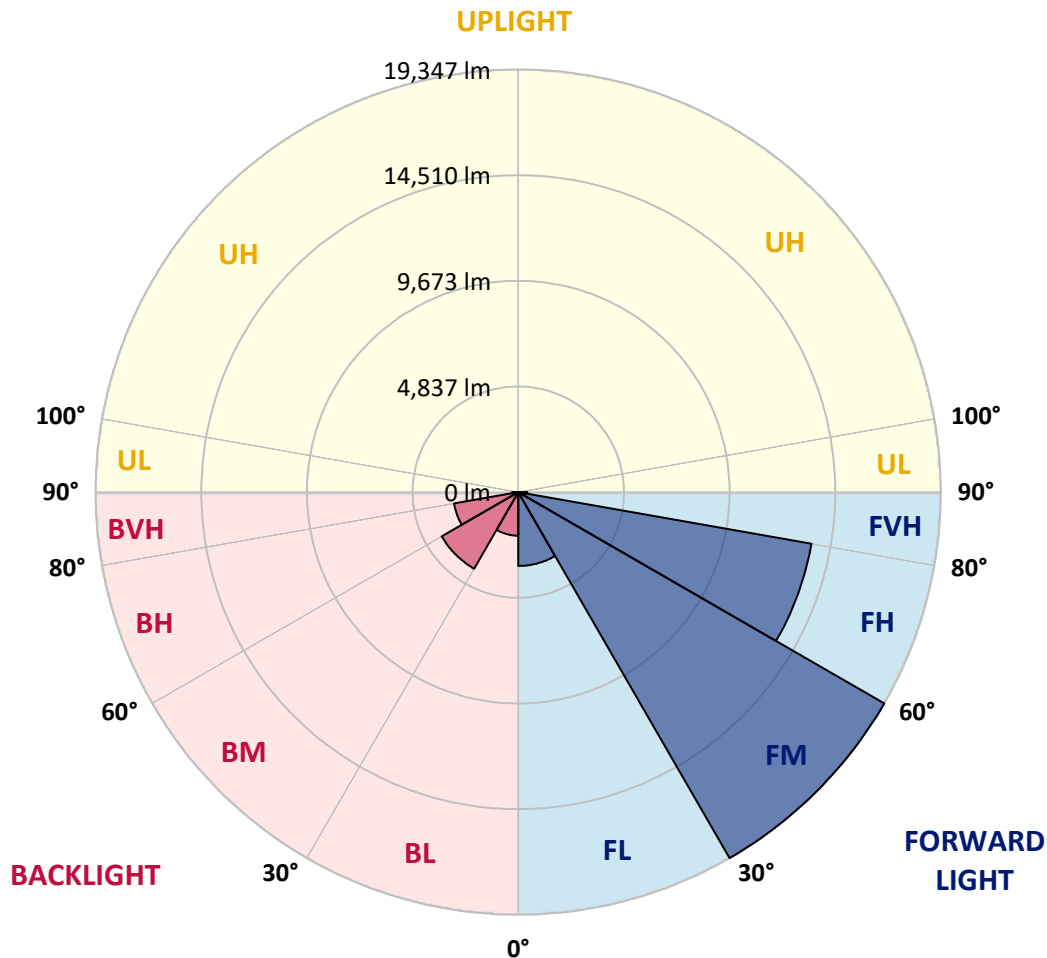


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3377.9	7.3			
FM (30°-60°)	19347.0	42.0			
FH (60°-80°)	13629.1	29.6			G5
FVH (80°-90°)	419.9	0.9			G3/500
BL (0°-30°)	1993.6	4.3	B3/2500		
BM (30°-60°)	4045.4	8.8	B3/5000		
BH (60°-80°)	2985.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	280.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5818.5	5818.5	5818.5	5818.5	5818.5	5818.5	5818.5	5818.5	5818.5	5818.5	5818.5
2.5°	6188.5	6193.6	6193.6	6173.3	6178.3	6193.6	6137.8	6016.2	6016.2	5995.9	5960.4
5°	6568.6	6543.3	6507.8	6512.9	6492.6	6492.6	6431.8	6315.2	6213.8	6173.3	6066.8
7.5°	6619.3	6644.6	6639.6	6700.4	6730.8	6730.8	6761.2	6664.9	6512.9	6416.6	6310.1
10°	6720.7	6654.8	6649.7	6791.6	6837.2	6943.7	7065.3	7014.6	6887.9	6751.1	6609.2
12.5°	6781.5	6822.0	6822.0	6893.0	6999.4	7156.5	7369.4	7465.7	7268.0	7126.1	6908.2
15°	6872.7	6817.0	6979.1	7040.0	7242.7	7354.2	7658.3	7906.7	7774.9	7602.6	7257.9
17.5°	6913.3	6877.8	6969.0	7080.5	7425.2	7592.4	7962.4	8307.1	8195.6	8084.1	7729.3
20°	7121.1	7116.0	7156.5	7247.8	7496.1	7825.6	8286.8	8763.2	8803.8	8601.0	8119.5
22.5°	7627.9	7562.0	7562.0	7526.5	7633.0	7972.5	8596.0	9254.8	9437.3	9199.1	8560.5
25°	8094.2	8185.4	8129.7	7967.5	7926.9	8104.3	8819.0	9776.9	10020.2	9797.2	9158.5
27.5°	8692.3	8722.7	8819.0	8601.0	8322.3	8378.0	9062.2	10070.9	10572.6	10273.6	9498.1
30°	9553.9	9498.1	9477.9	9234.6	8869.7	8793.6	9341.0	10501.7	11297.4	10876.7	9898.5
32.5°	10136.7	10273.6	10268.5	9934.0	9493.1	9325.8	9685.7	10907.1	12072.9	11682.6	10638.5
35°	11292.3	11434.2	11322.7	10831.1	10314.1	9979.6	10182.4	11434.2	12959.8	12655.7	11267.0
37.5°	12767.2	13101.7	12863.5	11956.3	11226.4	10861.5	10871.7	12007.0	13867.1	13618.7	11941.1
40°	13786.0	14237.1	13907.6	13056.1	12280.7	11936.0	11799.2	12686.1	14951.7	14688.1	12995.3
42.5°	15048.0	15423.1	15250.7	14409.4	13502.1	13208.2	12934.5	13821.5	16609.1	16487.4	14348.6
45°	16426.6	16604.0	16548.2	16016.1	15007.5	14906.1	14302.9	15316.6	18560.4	18611.1	16041.4
47.5°	17708.9	17805.2	17911.6	17526.4	16898.0	16984.1	15879.2	16918.2	20456.0	20790.5	17926.8
50°	18038.3	18367.8	18616.1	18874.6	19011.5	19594.3	17617.7	18884.8	22635.4	23284.1	20025.1
52.5°	17703.8	17678.5	18433.7	19244.6	20613.1	21834.5	19984.6	21327.7	24561.3	25843.6	21946.1
55°	16183.3	16132.6	17349.0	18423.5	21094.6	23081.4	23365.2	24581.6	26887.7	28555.2	24546.1
57.5°	13522.4	13208.2	14536.1	16299.9	20050.5	23218.2	26761.0	29411.8	30466.0	32366.6	28514.7
60°	9087.6	8955.8	10228.0	12331.4	16279.6	21277.0	28793.4	35458.3	35509.0	37647.9	34672.7
62.5°	5595.5	5620.8	6436.8	8013.1	11398.8	16867.5	27916.6	40288.5	40298.6	42442.6	39741.1
65°	3659.4	3674.6	4333.5	5205.2	7121.1	11439.3	23086.4	40668.6	43628.5	45620.4	42062.4
66°	3259.0	3264.0	3831.7	4541.3	5899.6	9361.3	20390.1	39680.3	44378.7	46041.1	42032.0
67.5°	2747.1	2812.9	3269.1	3816.5	4602.1	6725.7	16178.2	36821.7	43993.5	45453.2	41079.2
70°	2149.0	2184.5	2544.3	3101.8	3451.6	3892.5	9614.7	30014.9	40268.2	42635.1	37612.4
72.5°	1723.2	1753.7	2027.3	2519.0	2802.8	2564.6	5235.6	21778.8	31809.1	34333.2	29584.1
75°	1454.6	1459.7	1591.5	1981.7	2306.1	1926.0	2787.6	13978.6	20410.3	21586.2	18124.5
77.5°	1175.9	1196.1	1287.4	1510.4	1855.0	1515.4	1662.4	7830.6	10248.2	10334.4	8378.0
80°	957.9	968.1	1023.8	1099.8	1414.1	1120.1	1125.2	3821.6	4394.3	4292.9	3405.9
82.5°	755.2	765.3	831.2	816.0	1039.0	800.8	699.4	1839.8	2022.3	1981.7	1566.1
85°	425.7	425.7	653.8	653.8	658.9	506.8	425.7	866.7	1069.4	998.5	734.9
87.5°	136.8	141.9	197.7	207.8	329.4	228.1	207.8	324.4	506.8	446.0	263.6
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°	5818.5	5818.5	5818.5	5818.5	5818.5	5818.5	5818.5	5818.5	5818.5	5818.5	5818.5
2.5°	5940.1	5859.0	5823.6	5707.0	5676.6	5600.6	5565.1	5519.5	5504.3	5438.4	5499.2
5°	5985.7	5960.4	5818.5	5671.5	5560.0	5509.3	5433.3	5331.9	5321.8	5230.6	5220.4
7.5°	6178.3	6092.2	5843.8	5686.7	5463.7	5337.0	5169.7	5119.1	5053.2	5022.8	5088.6
10°	6477.4	6259.4	5889.4	5494.1	5220.4	5068.4	4946.7	4911.3	4916.3	4896.0	4865.6
12.5°	6690.3	6482.4	5813.4	5331.9	4977.1	4830.2	4820.0	4855.5	4911.3	4885.9	4921.4
15°	6994.4	6604.1	5757.7	5063.3	4779.5	4738.9	4733.9	4840.3	4835.2	4835.2	4830.2
17.5°	7278.2	6725.7	5554.9	4830.2	4571.7	4602.1	4637.6	4632.5	4683.2	4703.4	4738.9
20°	7638.0	6867.6	5271.1	4597.0	4414.6	4404.4	4399.3	4404.4	4455.1	4485.5	4460.2
22.5°	7952.3	6898.1	5032.9	4374.0	4227.0	4186.5	4120.6	4186.5	4161.1	4171.3	4201.7
25°	8226.0	6903.1	4693.3	4206.7	4039.5	3948.3	3897.6	3892.5	3846.9	3841.8	3841.8
27.5°	8454.0	6730.8	4394.3	3973.6	3816.5	3730.3	3725.3	3669.5	3552.9	3476.9	3487.0
30°	8631.4	6599.0	4186.5	3770.9	3618.8	3603.6	3558.0	3431.3	3279.2	3182.9	3182.9
32.5°	8945.7	6335.5	3902.6	3563.1	3487.0	3466.8	3360.3	3248.8	3106.9	3015.7	3000.5
35°	9178.8	6092.2	3715.1	3385.7	3350.2	3309.6	3218.4	3096.8	3056.2	3036.0	3051.2
37.5°	9442.4	5818.5	3487.0	3233.6	3269.1	3193.1	3086.6	3030.9	3172.8	3137.3	3152.5
40°	9863.1	5625.9	3264.0	3142.4	3177.9	3091.7	2954.9	2934.6	3112.0	2985.3	2954.9
42.5°	10633.4	5620.8	3127.2	3005.5	3030.9	2965.0	2843.4	2833.2	2904.2	2752.1	2706.5
45°	11591.4	5798.2	3025.8	2904.2	2883.9	2873.8	2833.2	2787.6	2726.8	2529.1	2478.4
47.5°	12736.8	6087.1	3005.5	2752.1	2777.5	2863.6	2812.9	2696.4	2539.3	2412.5	2387.2
50°	14125.6	6685.2	2954.9	2640.6	2686.2	2823.1	2782.5	2620.3	2478.4	2397.3	2382.1
52.5°	15661.3	7440.4	2889.0	2468.3	2569.7	2787.6	2807.9	2655.8	2448.0	2377.1	2366.9
55°	17470.7	8555.4	2812.9	2280.8	2432.8	2752.1	2807.9	2554.5	2407.5	2407.5	2397.3
57.5°	21043.9	10562.5	2655.8	2108.4	2311.2	2686.2	2726.8	2559.5	2412.5	2412.5	2392.3
60°	26284.6	13694.7	2356.8	1976.7	2194.6	2595.0	2666.0	2483.5	2356.8	2387.2	2382.1
62.5°	30384.9	14647.6	2103.4	1850.0	2078.0	2427.8	2584.9	2402.4	2290.9	2402.4	2412.5
65°	31261.7	13684.6	1844.9	1713.1	1915.8	2265.6	2468.3	2285.8	2194.6	2412.5	2422.7
66°	30947.5	12934.5	1753.7	1672.6	1844.9	2184.5	2397.3	2245.3	2143.9	2402.4	2407.5
67.5°	29548.6	11809.3	1652.3	1586.4	1748.6	2067.9	2316.2	2189.5	2062.8	2372.0	2326.4
70°	26507.6	10015.1	1480.0	1434.3	1611.7	1875.3	2128.7	2047.6	1936.1	2184.5	2103.4
72.5°	20415.4	8003.0	1297.5	1302.6	1454.6	1677.6	1941.2	1885.4	1789.1	1915.8	1865.2
75°	12432.7	5114.0	1130.2	1140.4	1267.1	1490.1	1763.8	1723.2	1606.7	1677.6	1652.3
77.5°	5509.3	2534.2	952.9	973.1	1074.5	1312.7	1535.7	1469.8	1348.2	1363.4	1353.3
80°	2138.9	1201.2	775.5	800.8	866.7	1049.2	1272.2	1211.3	1104.9	1084.6	1074.5
82.5°	1028.9	669.0	598.1	608.2	633.5	836.3	1094.8	1018.7	876.8	785.6	785.6
85°	517.0	415.6	420.7	385.2	420.7	567.7	740.0	618.3	511.9	456.2	466.3
87.5°	207.8	207.8	207.8	177.4	187.5	268.6	344.6	233.1	212.9	126.7	126.7
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)