

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: P476662

Luminaire Tested: **IFLD-L-SA7C-750-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476662
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

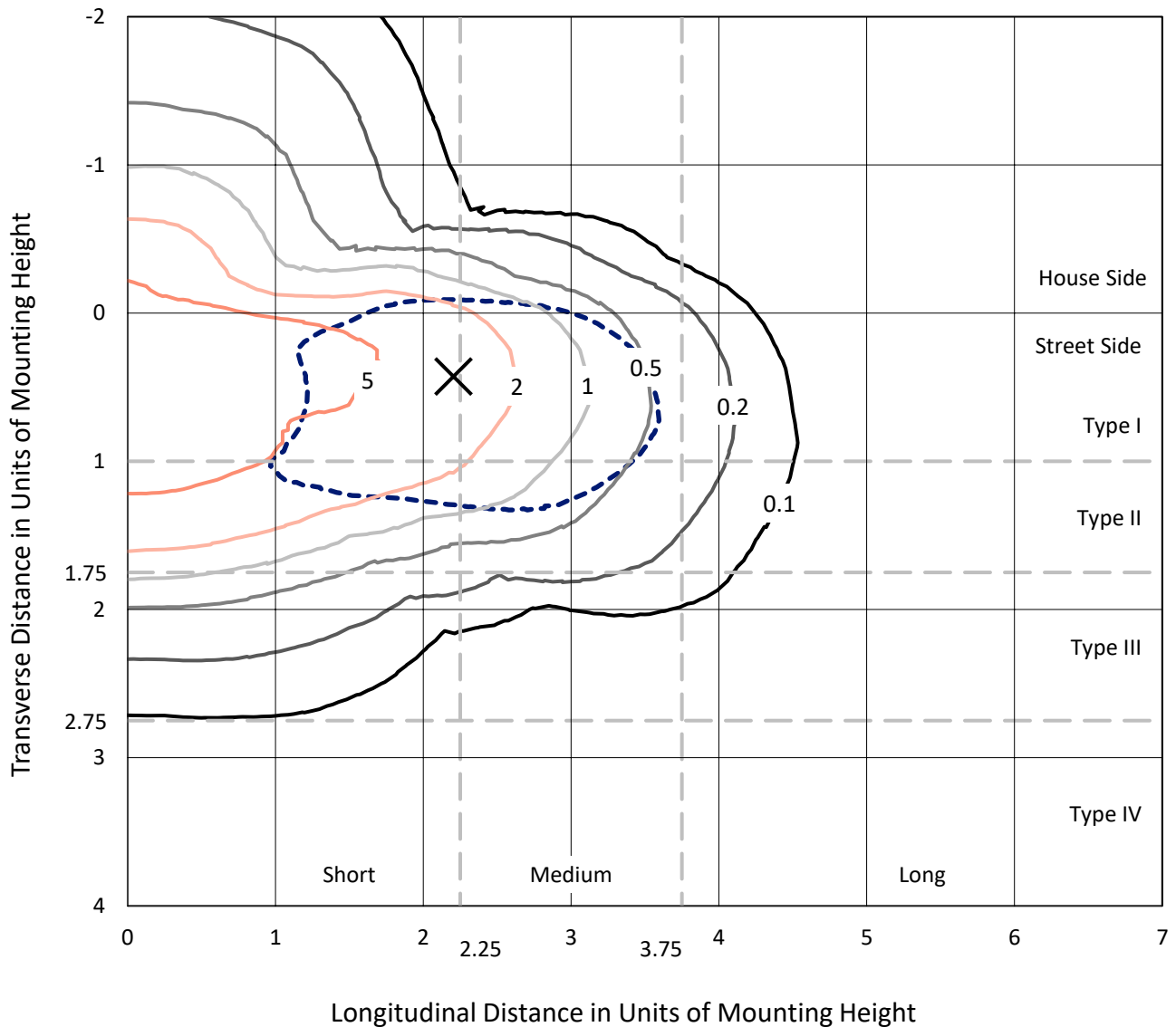
Lumens per Lamp: N/A
Luminaire Lumens: 45291.3 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 369
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

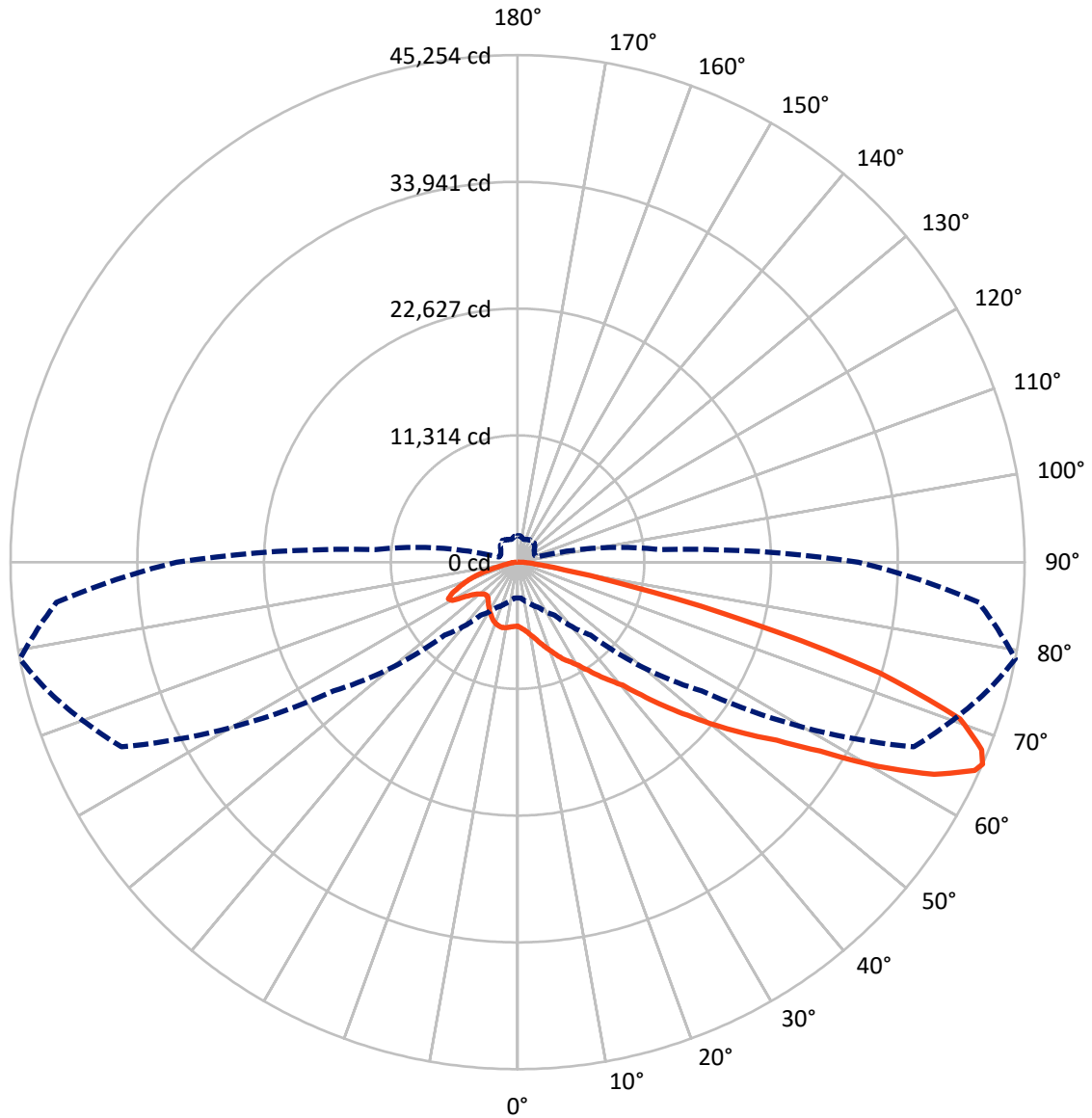
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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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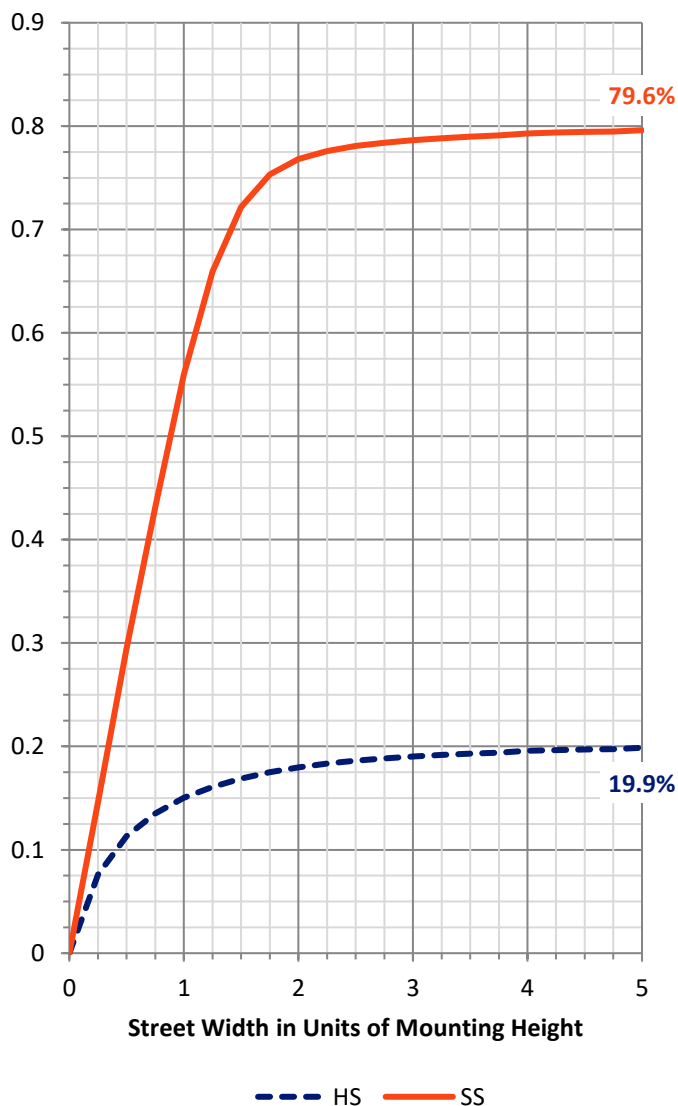
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9146.0	0.0	9146.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	36145.4	0.0	36145.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	45291.3	0.0	45291.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.3	1.2
10°-20°	1736.5	3.8
20°-30°	2980.8	6.6
30°-40°	4604.7	10.2
40°-50°	7375.6	16.3
50°-60°	11012.3	24.3
60°-70°	11315.1	25.0
70°-80°	5015.8	11.1
80°-90°	688.2	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°	45291.3	100.0
0°-180°	45291.3	100.0

Coefficient of Utilization



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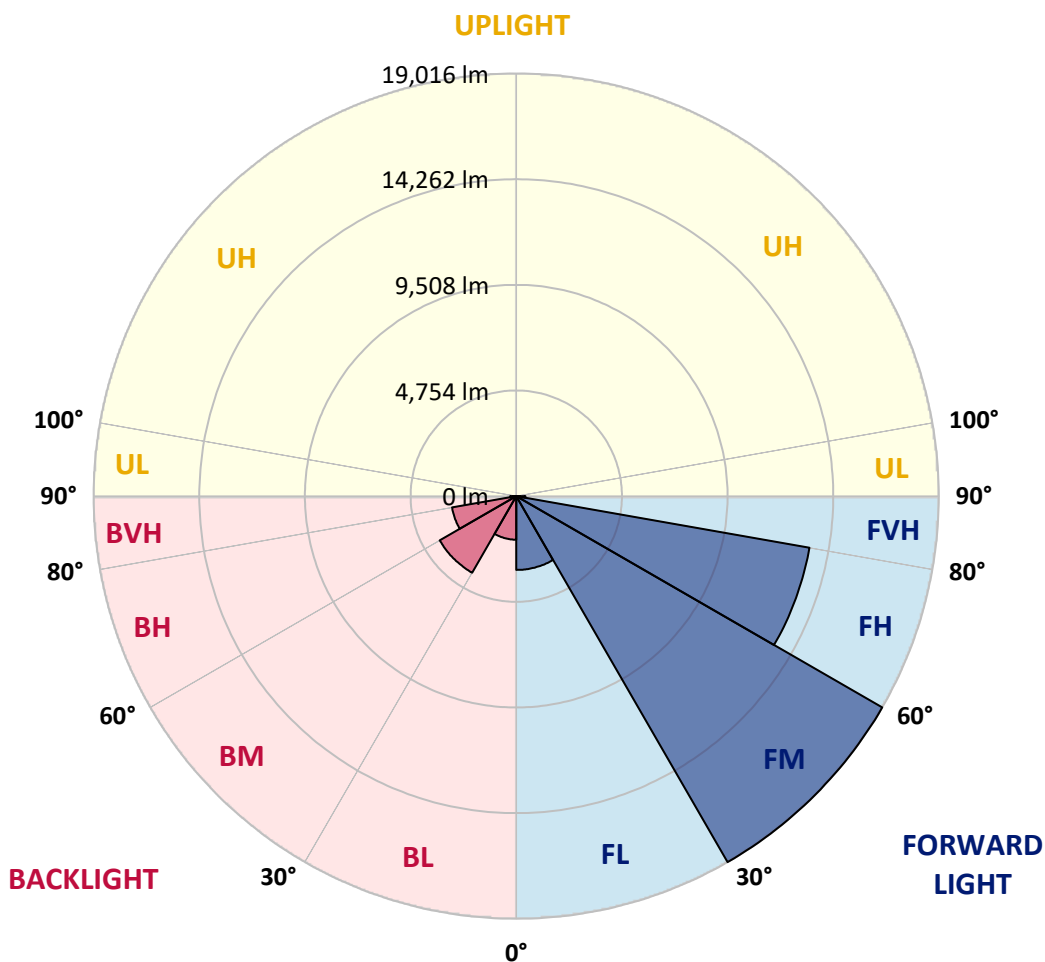
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3320.1	7.3			
FM (30°-60°)	19016.3	42.0			
FH (60°-80°)	13396.2	29.6			G5
FVH (80°-90°)	412.8	0.9			G3/500
BL (0°-30°)	1959.5	4.3	B3/2500		
BM (30°-60°)	3976.2	8.8	B3/5000		
BH (60°-80°)	2934.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	275.4	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°	5719.0	5719.0	5719.0	5719.0	5719.0	5719.0	5719.0	5719.0	5719.0	5719.0	5719.0
2.5°	6082.7	6087.7	6087.7	6067.8	6072.7	6087.7	6032.9	5913.3	5913.3	5893.4	5858.5
5°	6456.3	6431.4	6396.6	6401.5	6381.6	6381.6	6321.8	6207.2	6107.6	6067.8	5963.1
7.5°	6506.2	6531.1	6526.1	6585.9	6615.7	6615.7	6645.6	6551.0	6401.5	6306.9	6202.3
10°	6605.8	6541.0	6536.0	6675.5	6720.4	6825.0	6944.5	6894.7	6770.2	6635.7	6496.2
12.5°	6665.6	6705.4	6705.4	6775.2	6879.8	7034.2	7243.4	7338.1	7143.8	7004.3	6790.1
15°	6755.2	6700.4	6859.9	6919.6	7118.9	7228.5	7527.4	7771.5	7642.0	7472.6	7133.8
17.5°	6795.1	6760.2	6849.9	6959.5	7298.2	7462.6	7826.3	8165.1	8055.5	7945.9	7597.2
20°	6999.3	6994.4	7034.2	7123.9	7368.0	7691.8	8145.1	8613.4	8653.3	8454.0	7980.7
22.5°	7497.5	7432.8	7432.8	7397.9	7502.5	7836.3	8449.0	9096.7	9276.0	9041.9	8414.2
25°	7955.8	8045.5	7990.7	7831.3	7791.4	7965.8	8668.2	9609.8	9848.9	9629.7	9002.0
27.5°	8543.7	8573.6	8668.2	8454.0	8180.0	8234.8	8907.3	9898.7	10391.9	10098.0	9335.8
30°	9390.6	9335.8	9315.9	9076.7	8718.0	8643.3	9181.3	10322.2	11104.3	10690.8	9729.3
32.5°	9963.5	10098.0	10093.0	9764.2	9330.8	9166.4	9520.1	10720.7	11866.5	11482.9	10456.7
35°	11099.3	11238.8	11129.2	10646.0	10137.8	9809.0	10008.3	11238.8	12738.3	12439.4	11074.4
37.5°	12549.0	12877.8	12643.7	11751.9	11034.6	10675.9	10685.8	11801.7	13630.0	13385.9	11737.0
40°	13550.3	13993.7	13669.9	12833.0	12070.8	11732.0	11597.5	12469.3	14696.1	14437.1	12773.2
42.5°	14790.8	15159.4	14990.1	14163.1	13271.4	12982.4	12713.4	13585.2	16325.2	16205.6	14103.3
45°	16145.8	16320.2	16265.4	15742.3	14750.9	14651.3	14058.5	15054.8	18243.1	18292.9	15767.2
47.5°	17406.2	17500.8	17605.5	17226.9	16609.1	16693.8	15607.8	16629.0	20106.3	20435.1	17620.4
50°	17730.0	18053.8	18297.9	18552.0	18686.5	19259.4	17316.5	18562.0	22248.4	22886.1	19682.8
52.5°	17401.2	17376.3	18118.6	18915.7	20260.7	21461.3	19643.0	20963.2	24141.5	25401.9	21570.9
55°	15906.7	15856.9	17052.5	18108.6	20734.0	22686.8	22965.8	24161.4	26428.1	28067.1	24126.6
57.5°	13291.3	12982.4	14287.6	16021.3	19707.8	22821.3	26303.6	28909.0	29945.2	31813.4	28027.3
60°	8932.3	8802.7	10053.1	12120.6	16001.3	20913.3	28301.3	34852.2	34902.1	37004.4	34080.1
62.5°	5499.8	5524.7	6326.8	7876.1	11203.9	16579.2	27439.4	39599.8	39609.8	41717.1	39061.8
65°	3596.8	3611.8	4259.4	5116.2	6999.3	11243.8	22691.8	39973.5	42882.8	44840.6	41343.4
66°	3203.3	3208.2	3766.2	4463.6	5798.7	9201.3	20041.5	39002.0	43620.1	45254.1	41313.6
67.5°	2700.1	2764.9	3213.2	3751.2	4523.4	6610.8	15901.7	36192.3	43241.5	44676.2	40377.0
70°	2112.3	2147.1	2500.8	3048.8	3392.6	3826.0	9450.4	29501.9	39579.9	41906.4	36969.5
72.5°	1693.8	1723.7	1992.7	2475.9	2754.9	2520.8	5146.1	21406.5	31265.4	33746.3	29078.4
75°	1429.8	1434.7	1564.3	1947.9	2266.7	1893.1	2740.0	13739.6	20061.5	21217.2	17814.7
77.5°	1155.8	1175.7	1265.4	1484.6	1823.3	1489.5	1634.0	7696.8	10073.1	10157.8	8234.8
80°	941.5	951.5	1006.3	1081.0	1389.9	1101.0	1105.9	3756.2	4319.2	4219.5	3347.7
82.5°	742.3	752.2	817.0	802.1	1021.3	787.1	687.5	1808.4	1987.7	1947.9	1539.4
85°	418.5	418.5	642.6	642.6	647.6	498.2	418.5	851.9	1051.1	981.4	722.4
87.5°	134.5	139.5	194.3	204.3	323.8	224.2	204.3	318.8	498.2	438.4	259.1
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°	5719.0	5719.0	5719.0	5719.0	5719.0	5719.0	5719.0	5719.0	5719.0	5719.0	5719.0
2.5°	5838.6	5758.9	5724.0	5609.4	5579.5	5504.8	5469.9	5425.1	5410.2	5345.4	5405.2
5°	5883.4	5858.5	5719.0	5574.6	5465.0	5415.1	5340.4	5240.8	5230.8	5141.2	5131.2
7.5°	6072.7	5988.0	5743.9	5589.5	5370.3	5245.8	5081.4	5031.6	4966.8	4936.9	5001.7
10°	6366.7	6152.4	5788.8	5400.2	5131.2	4981.7	4862.2	4827.3	4832.3	4812.4	4782.5
12.5°	6575.9	6371.6	5714.1	5240.8	4892.1	4747.6	4737.6	4772.5	4827.3	4802.4	4837.3
15°	6874.8	6491.2	5659.3	4976.8	4697.8	4657.9	4652.9	4757.6	4752.6	4752.6	4747.6
17.5°	7153.8	6610.8	5460.0	4747.6	4493.5	4523.4	4558.3	4553.3	4603.1	4623.1	4657.9
20°	7507.5	6750.3	5181.0	4518.4	4339.1	4329.1	4324.1	4329.1	4378.9	4408.8	4383.9
22.5°	7816.3	6780.1	4946.9	4299.2	4154.8	4114.9	4050.2	4114.9	4090.0	4100.0	4129.9
25°	8085.4	6785.1	4613.1	4134.8	3970.4	3880.8	3831.0	3826.0	3781.1	3776.2	3776.2
27.5°	8309.5	6615.7	4319.2	3905.7	3751.2	3666.6	3661.6	3606.8	3492.2	3417.5	3427.4
30°	8483.9	6486.2	4114.9	3706.4	3557.0	3542.0	3497.2	3372.6	3223.2	3128.5	3128.5
32.5°	8792.8	6227.2	3835.9	3502.2	3427.4	3407.5	3302.9	3193.3	3053.8	2964.1	2949.2
35°	9021.9	5988.0	3651.6	3327.8	3292.9	3253.1	3163.4	3043.8	3004.0	2984.1	2999.0
37.5°	9281.0	5719.0	3427.4	3178.3	3213.2	3138.5	3033.9	2979.1	3118.6	3083.7	3098.6
40°	9694.5	5529.7	3208.2	3088.7	3123.5	3038.9	2904.4	2884.4	3058.8	2934.2	2904.4
42.5°	10451.7	5524.7	3073.7	2954.2	2979.1	2914.3	2794.8	2784.8	2854.5	2705.1	2660.2
45°	11393.2	5699.1	2974.1	2854.5	2834.6	2824.6	2784.8	2740.0	2680.2	2485.9	2436.1
47.5°	12519.1	5983.1	2954.2	2705.1	2730.0	2814.7	2764.9	2650.3	2495.9	2371.3	2346.4
50°	13884.1	6570.9	2904.4	2595.5	2640.3	2774.8	2735.0	2575.6	2436.1	2356.4	2341.4
52.5°	15393.6	7313.2	2839.6	2426.1	2525.7	2740.0	2759.9	2610.4	2406.2	2336.4	2326.5
55°	17172.1	8409.2	2764.9	2241.8	2391.2	2705.1	2759.9	2510.8	2366.3	2366.3	2356.4
57.5°	20684.2	10381.9	2610.4	2072.4	2271.7	2640.3	2680.2	2515.8	2371.3	2371.3	2351.4
60°	25835.3	13460.7	2316.5	1942.9	2157.1	2550.7	2620.4	2441.1	2316.5	2346.4	2341.4
62.5°	29865.5	14397.2	2067.4	1818.3	2042.5	2386.3	2540.7	2361.3	2251.7	2361.3	2371.3
65°	30727.4	13450.7	1813.4	1683.8	1883.1	2226.8	2426.1	2246.8	2157.1	2371.3	2381.3
66°	30418.5	12713.4	1723.7	1644.0	1813.4	2147.1	2356.4	2206.9	2107.3	2361.3	2366.3
67.5°	29043.5	11607.5	1624.0	1559.3	1718.7	2032.5	2276.7	2152.1	2027.6	2331.5	2286.6
70°	26054.5	9843.9	1454.7	1409.8	1584.2	1843.2	2092.3	2012.6	1903.0	2147.1	2067.4
72.5°	20066.4	7866.2	1275.3	1280.3	1429.8	1649.0	1908.0	1853.2	1758.6	1883.1	1833.3
75°	12220.2	5026.6	1110.9	1120.9	1245.4	1464.6	1733.6	1693.8	1579.2	1649.0	1624.0
77.5°	5415.1	2490.9	936.6	956.5	1056.1	1290.3	1509.5	1444.7	1325.1	1340.1	1330.1
80°	2102.3	1180.7	762.2	787.1	851.9	1031.2	1250.4	1190.6	1086.0	1066.1	1056.1
82.5°	1011.3	657.6	587.8	597.8	622.7	822.0	1076.1	1001.3	861.8	772.2	772.2
85°	508.1	408.5	413.5	378.6	413.5	558.0	727.3	607.8	503.2	448.4	458.3
87.5°	204.3	204.3	204.3	174.4	184.3	264.0	338.8	229.2	209.2	124.5	124.5
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)