

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: P476784

Luminaire Tested: **IFLD-L-SA8C-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476784
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

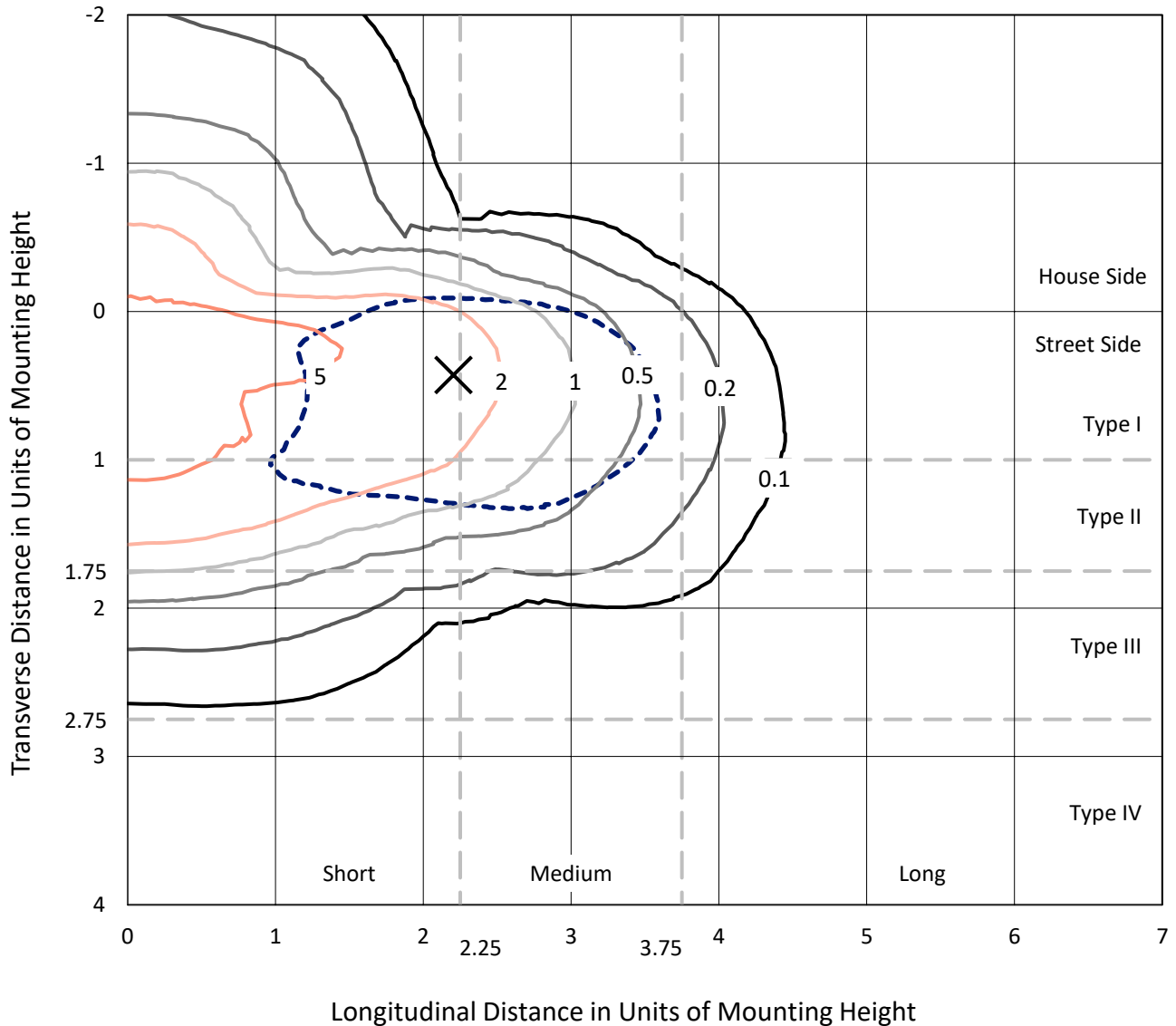
Lumens per Lamp: N/A
Luminaire Lumens: 40209 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

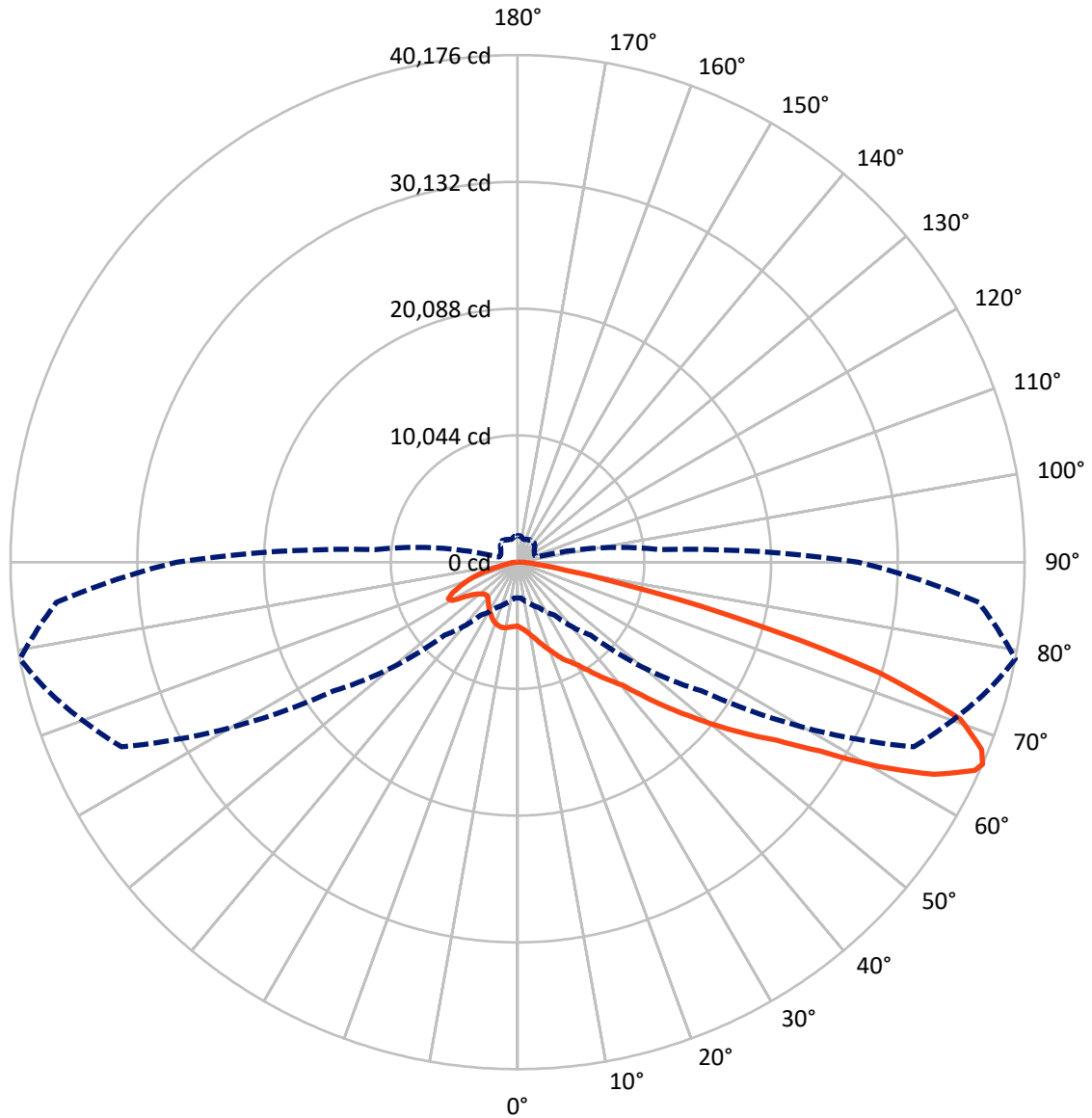
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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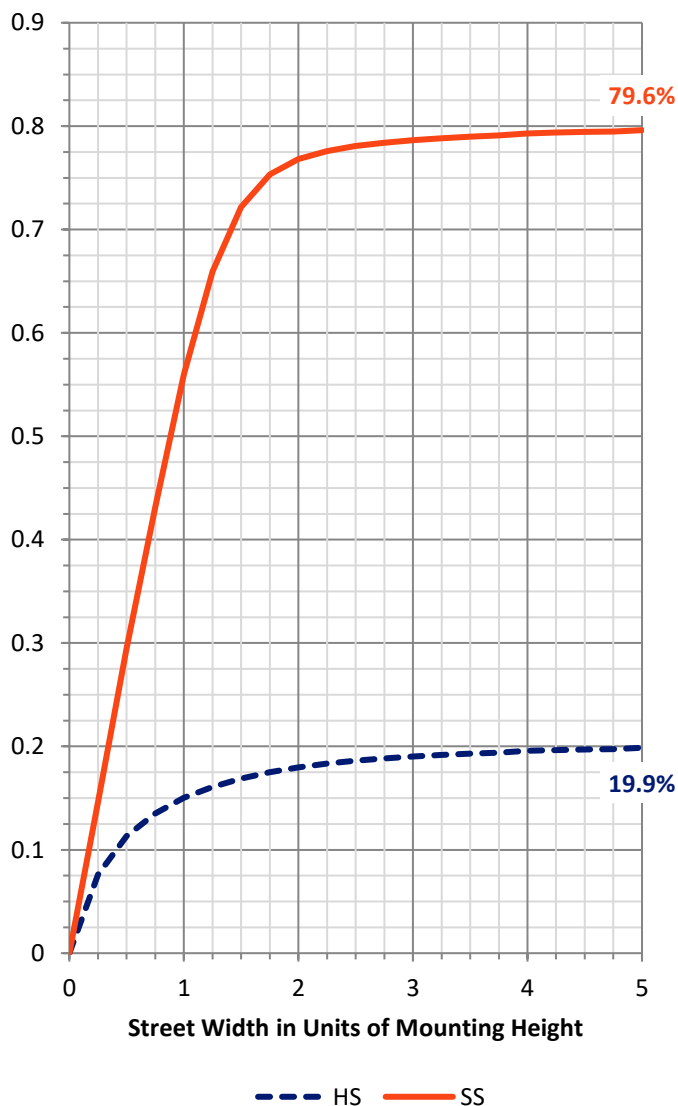
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8119.6	0.0	8119.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	32089.4	0.0	32089.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	40209.0	0.0	40209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.2	1.2
10°-20°	1541.7	3.8
20°-30°	2646.3	6.6
30°-40°	4088.0	10.2
40°-50°	6547.9	16.3
50°-60°	9776.5	24.3
60°-70°	10045.4	25.0
70°-80°	4453.0	11.1
80°-90°	611.0	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°	40209.0	100.0
0°-180°	40209.0	100.0

Coefficient of Utilization



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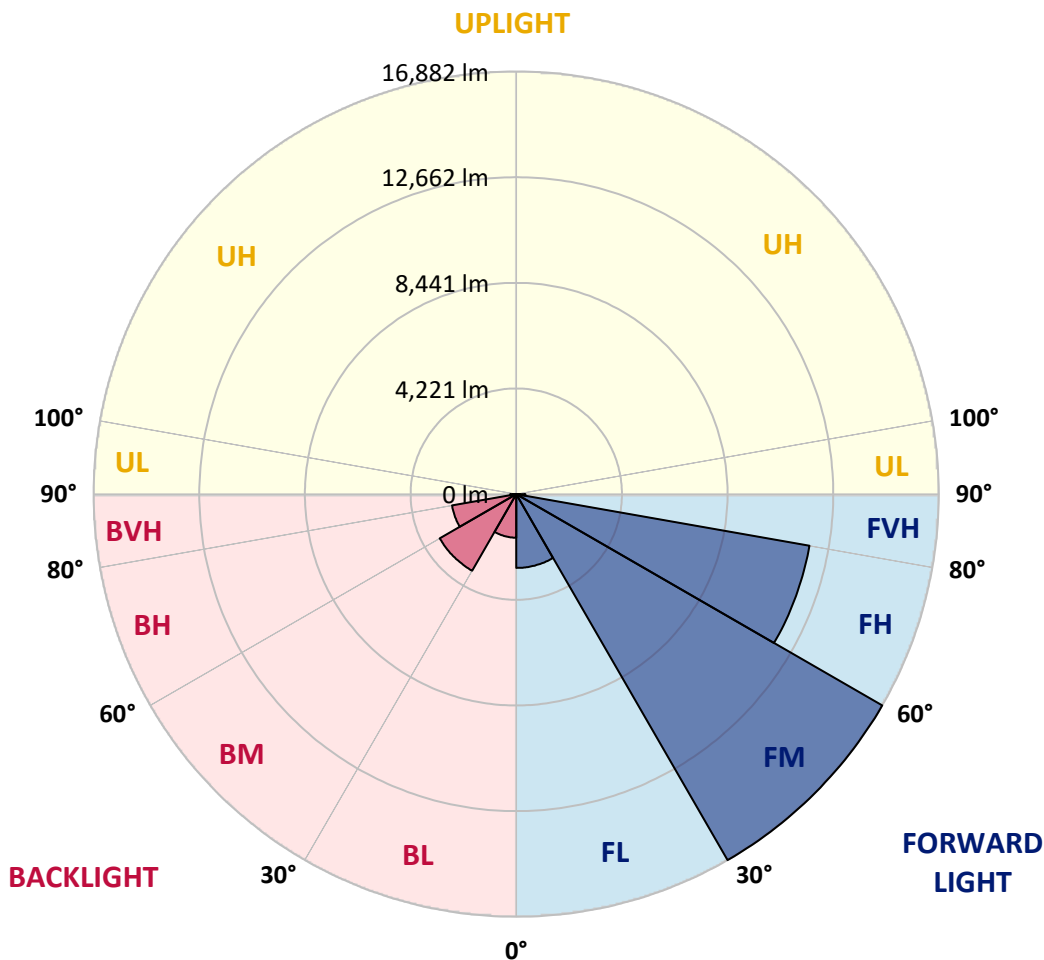
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2947.6	7.3			
FM (30°-60°)	16882.4	42.0			
FH (60°-80°)	11892.9	29.6			G4/12000
FVH (80°-90°)	366.4	0.9			G3/500
BL (0°-30°)	1739.6	4.3	B3/2500		
BM (30°-60°)	3530.1	8.8	B3/5000		
BH (60°-80°)	2605.4	6.5	B4/5000		G4/5000
BVH (80°-90°)	244.5	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5077.3	5077.3	5077.3	5077.3	5077.3	5077.3	5077.3	5077.3	5077.3	5077.3	5077.3
2.5°	5400.1	5404.6	5404.6	5386.9	5391.3	5404.6	5355.9	5249.8	5249.8	5232.1	5201.1
5°	5731.8	5709.7	5678.8	5683.2	5665.5	5665.5	5612.4	5510.7	5422.3	5386.9	5294.0
7.5°	5776.1	5798.2	5793.8	5846.8	5873.4	5873.4	5899.9	5815.9	5683.2	5599.2	5506.3
10°	5864.5	5807.0	5802.6	5926.4	5966.2	6059.1	6165.3	6121.0	6010.5	5891.1	5767.2
12.5°	5917.6	5953.0	5953.0	6014.9	6107.8	6244.9	6430.6	6514.7	6342.2	6218.3	6028.2
15°	5997.2	5948.6	6090.1	6143.2	6320.1	6417.4	6682.7	6899.4	6784.5	6634.1	6333.3
17.5°	6032.6	6001.6	6081.2	6178.5	6479.3	6625.2	6948.1	7248.8	7151.5	7054.2	6744.6
20°	6213.9	6209.5	6244.9	6324.5	6541.2	6828.7	7231.1	7646.9	7682.3	7505.4	7085.2
22.5°	6656.2	6598.7	6598.7	6567.7	6660.6	6956.9	7500.9	8075.9	8235.1	8027.2	7470.0
25°	7063.1	7142.7	7094.0	6952.5	6917.1	7071.9	7695.5	8531.4	8743.7	8549.1	7991.9
27.5°	7585.0	7611.5	7695.5	7505.4	7262.1	7310.8	7907.8	8787.9	9225.8	8964.9	8288.2
30°	8336.8	8288.2	8270.5	8058.2	7739.8	7673.4	8151.1	9163.9	9858.2	9491.2	8637.6
32.5°	8845.4	8964.9	8960.4	8668.5	8283.8	8137.8	8451.8	9517.7	10534.9	10194.4	9283.3
35°	9853.8	9977.7	9880.4	9451.4	9000.2	8708.3	8885.2	9977.7	11308.9	11043.5	9831.7
37.5°	11140.8	11432.7	11224.9	10433.2	9796.3	9477.9	9486.7	10477.4	12100.6	11883.8	10419.9
40°	12029.8	12423.4	12135.9	11392.9	10716.3	10415.5	10296.1	11070.1	13047.0	12817.0	11339.9
42.5°	13131.1	13458.3	13308.0	12573.8	11782.1	11525.6	11286.8	12060.8	14493.3	14387.1	12520.7
45°	14334.0	14488.8	14440.2	13975.8	13095.7	13007.2	12480.9	13365.5	16196.0	16240.2	13997.9
47.5°	15453.0	15537.0	15629.9	15293.8	14745.3	14820.5	13856.4	14763.0	17850.1	18142.0	15643.2
50°	15740.5	16027.9	16244.7	16470.2	16589.6	17098.2	15373.4	16479.1	19751.9	20318.0	17474.2
52.5°	15448.6	15426.4	16085.4	16793.1	17987.2	19053.1	17438.8	18610.8	21432.5	22551.4	19150.4
55°	14121.7	14077.5	15139.0	16076.6	18407.4	20141.1	20388.7	21450.2	23462.5	24917.6	21419.2
57.5°	11799.8	11525.6	12684.4	14223.5	17496.3	20260.5	23352.0	25665.0	26585.0	28243.5	24882.2
60°	7929.9	7814.9	8925.0	10760.5	14205.8	18566.6	25125.5	30941.3	30985.6	32852.0	30255.8
62.5°	4882.7	4904.8	5616.9	6992.3	9946.7	14718.8	24360.3	35156.2	35165.0	37035.9	34678.5
65°	3193.2	3206.5	3781.4	4542.1	6213.9	9982.1	20145.5	35487.9	38070.8	39808.9	36704.2
66°	2843.8	2848.2	3343.6	3962.8	5148.0	8168.8	17792.6	34625.5	38725.3	40176.0	36677.6
67.5°	2397.1	2454.6	2852.7	3330.3	4015.8	5868.9	14117.3	32131.1	38389.2	39663.0	35846.1
70°	1875.2	1906.2	2220.2	2706.7	3011.9	3396.6	8389.9	26191.3	35138.5	37203.9	32821.0
72.5°	1503.7	1530.3	1769.1	2198.1	2445.8	2237.9	4568.7	19004.4	27757.0	29959.5	25815.4
75°	1269.3	1273.7	1388.7	1729.3	2012.3	1680.6	2432.5	12197.9	17810.3	18836.4	15815.6
77.5°	1026.1	1043.8	1123.4	1318.0	1618.7	1322.4	1450.7	6833.1	8942.7	9017.9	7310.8
80°	835.9	844.7	893.4	959.7	1233.9	977.4	981.8	3334.7	3834.5	3746.0	2972.1
82.5°	659.0	667.8	725.3	712.1	906.7	698.8	610.3	1605.4	1764.7	1729.3	1366.6
85°	371.5	371.5	570.5	570.5	575.0	442.3	371.5	756.3	933.2	871.3	641.3
87.5°	119.4	123.8	172.5	181.3	287.5	199.0	181.3	283.1	442.3	389.2	230.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5077.3	5077.3	5077.3	5077.3	5077.3	5077.3	5077.3	5077.3	5077.3	5077.3	5077.3
2.5°	5183.4	5112.7	5081.7	4980.0	4953.4	4887.1	4856.1	4816.3	4803.1	4745.6	4798.7
5°	5223.2	5201.1	5077.3	4949.0	4851.7	4807.5	4741.2	4652.7	4643.9	4564.2	4555.4
7.5°	5391.3	5316.1	5099.4	4962.3	4767.7	4657.1	4511.2	4466.9	4409.5	4382.9	4440.4
10°	5652.2	5462.1	5139.2	4794.2	4555.4	4422.7	4316.6	4285.6	4290.0	4272.3	4245.8
12.5°	5838.0	5656.7	5072.9	4652.7	4343.1	4214.9	4206.0	4237.0	4285.6	4263.5	4294.5
15°	6103.4	5762.8	5024.2	4418.3	4170.6	4135.2	4130.8	4223.7	4219.3	4219.3	4214.9
17.5°	6351.0	5868.9	4847.3	4214.9	3989.3	4015.8	4046.8	4042.4	4086.6	4104.3	4135.2
20°	6665.0	5992.8	4599.6	4011.4	3852.2	3843.3	3838.9	3843.3	3887.6	3914.1	3892.0
22.5°	6939.2	6019.3	4391.8	3816.8	3688.5	3653.2	3595.7	3653.2	3631.1	3639.9	3666.4
25°	7178.1	6023.7	4095.4	3670.9	3524.9	3445.3	3401.1	3396.6	3356.8	3352.4	3352.4
27.5°	7377.1	5873.4	3834.5	3467.4	3330.3	3255.1	3250.7	3202.0	3100.3	3034.0	3042.8
30°	7531.9	5758.4	3653.2	3290.5	3157.8	3144.6	3104.7	2994.2	2861.5	2777.5	2777.5
32.5°	7806.1	5528.4	3405.5	3109.2	3042.8	3025.1	2932.3	2835.0	2711.1	2631.5	2618.3
35°	8009.5	5316.1	3241.9	2954.4	2923.4	2888.0	2808.4	2702.3	2666.9	2649.2	2662.5
37.5°	8239.5	5077.3	3042.8	2821.7	2852.7	2786.3	2693.4	2644.8	2768.6	2737.7	2750.9
40°	8606.6	4909.2	2848.2	2742.1	2773.0	2697.9	2578.4	2560.8	2715.6	2605.0	2578.4
42.5°	9278.9	4904.8	2728.8	2622.7	2644.8	2587.3	2481.1	2472.3	2534.2	2401.5	2361.7
45°	10114.8	5059.6	2640.4	2534.2	2516.5	2507.7	2472.3	2432.5	2379.4	2206.9	2162.7
47.5°	11114.3	5311.7	2622.7	2401.5	2423.7	2498.8	2454.6	2352.9	2215.8	2105.2	2083.1
50°	12326.1	5833.6	2578.4	2304.2	2344.0	2463.5	2428.1	2286.5	2162.7	2091.9	2078.7
52.5°	13666.2	6492.6	2521.0	2153.9	2242.3	2432.5	2450.2	2317.5	2136.2	2074.3	2065.4
55°	15245.1	7465.6	2454.6	1990.2	2122.9	2401.5	2450.2	2229.1	2100.8	2100.8	2091.9
57.5°	18363.1	9216.9	2317.5	1839.9	2016.8	2344.0	2379.4	2233.5	2105.2	2105.2	2087.5
60°	22936.2	11950.2	2056.6	1724.9	1915.0	2264.4	2326.4	2167.1	2056.6	2083.1	2078.7
62.5°	26514.2	12781.7	1835.4	1614.3	1813.3	2118.5	2255.6	2096.4	1999.1	2096.4	2105.2
65°	27279.3	11941.3	1609.9	1494.9	1671.8	1977.0	2153.9	1994.6	1915.0	2105.2	2114.1
66°	27005.1	11286.8	1530.3	1459.5	1609.9	1906.2	2091.9	1959.3	1870.8	2096.4	2100.8
67.5°	25784.5	10304.9	1441.8	1384.3	1525.8	1804.5	2021.2	1910.6	1800.0	2069.8	2030.0
70°	23130.8	8739.3	1291.4	1251.6	1406.4	1636.4	1857.5	1786.8	1689.5	1906.2	1835.4
72.5°	17814.7	6983.5	1132.2	1136.6	1269.3	1463.9	1693.9	1645.3	1561.2	1671.8	1627.6
75°	10848.9	4462.5	986.3	995.1	1105.7	1300.3	1539.1	1503.7	1402.0	1463.9	1441.8
77.5°	4807.5	2211.4	831.5	849.2	937.6	1145.5	1340.1	1282.6	1176.4	1189.7	1180.9
80°	1866.4	1048.2	676.7	698.8	756.3	915.5	1110.1	1057.0	964.2	946.5	937.6
82.5°	897.8	583.8	521.9	530.7	552.8	729.7	955.3	889.0	765.1	685.5	685.5
85°	451.1	362.7	367.1	336.1	367.1	495.3	645.7	539.6	446.7	398.0	406.9
87.5°	181.3	181.3	181.3	154.8	163.6	234.4	300.7	203.4	185.8	110.6	110.6
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)