

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: P476573

Luminaire Tested: **IFLD-S-SA6B-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476573
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

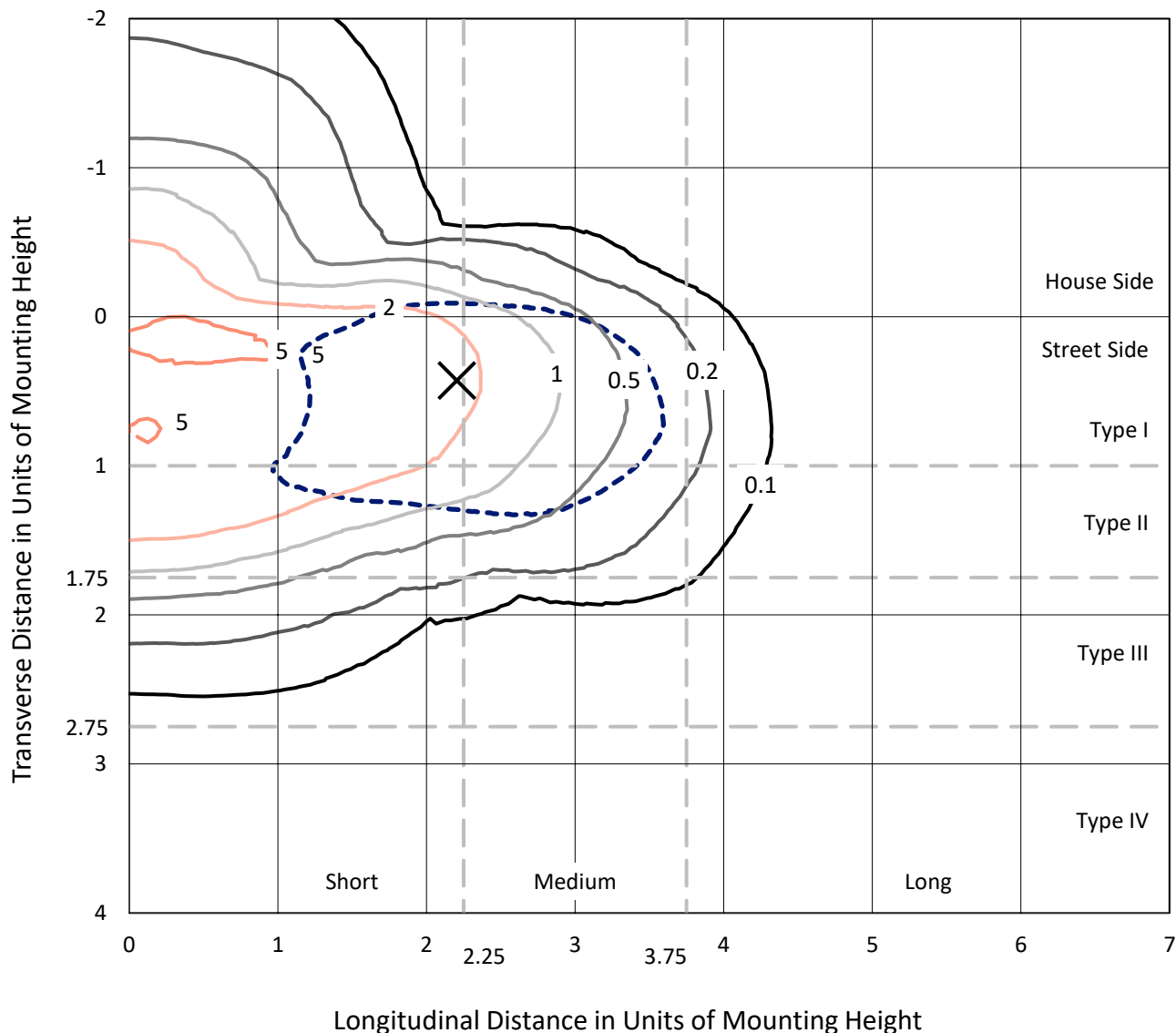
Lumens per Lamp: N/A
Luminaire Lumens: 32882.6 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

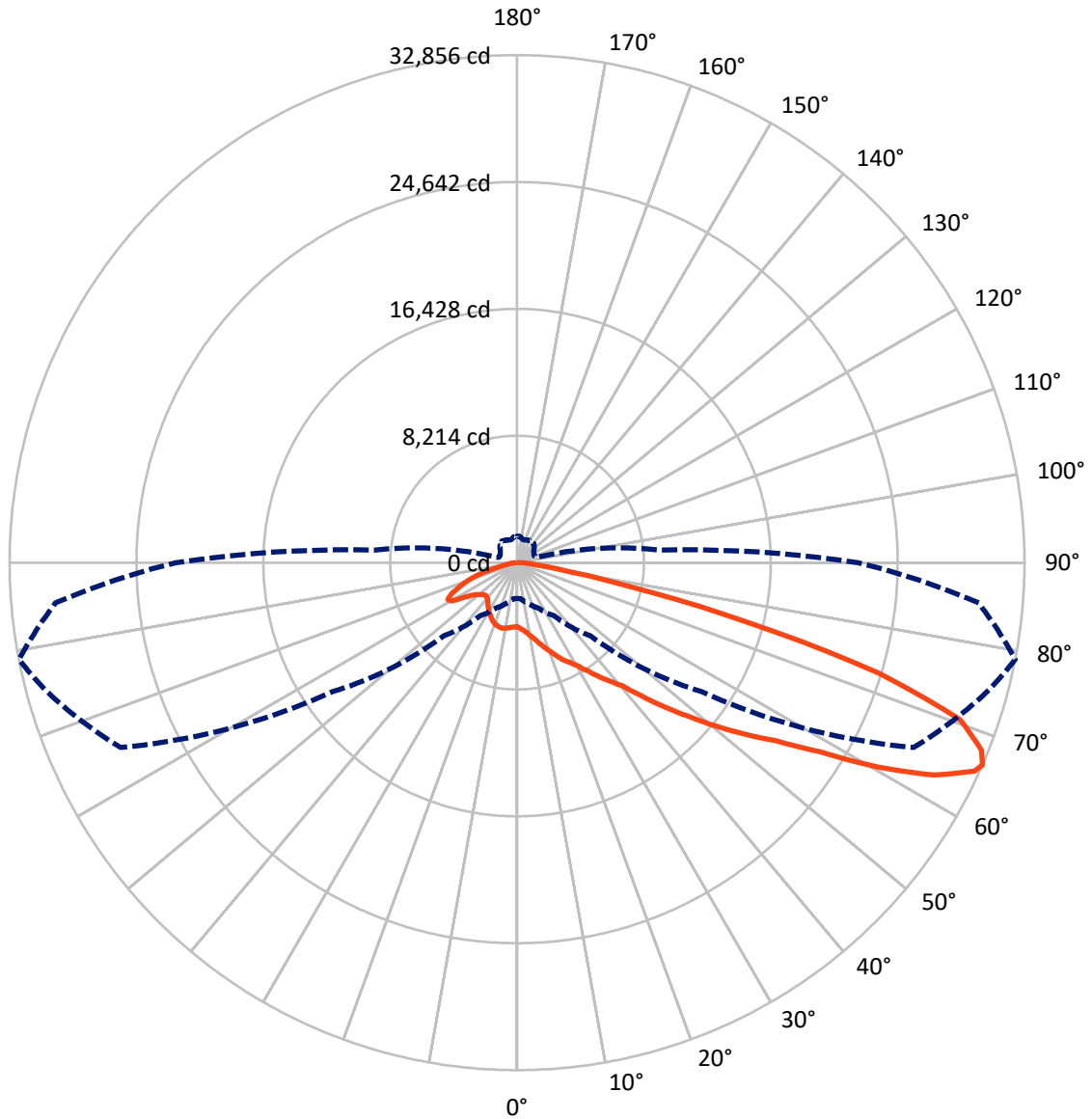
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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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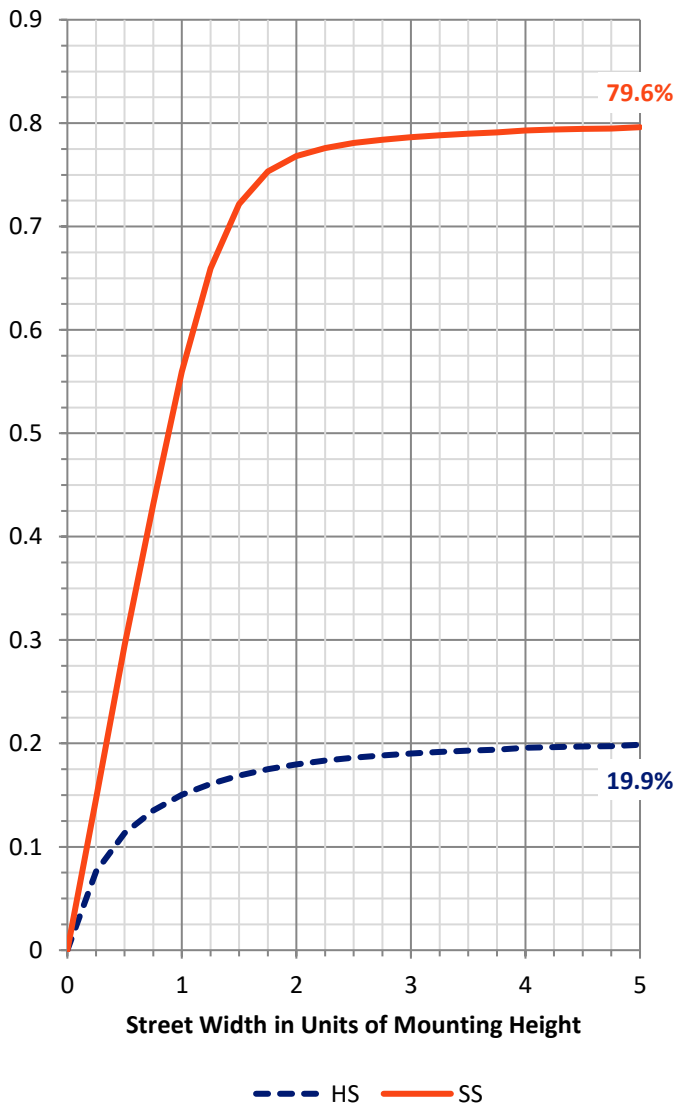
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6640.2	0.0	6640.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	26242.5	0.0	26242.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	32882.6	0.0	32882.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.3	1.2
10°-20°	1260.8	3.8
20°-30°	2164.1	6.6
30°-40°	3343.1	10.2
40°-50°	5354.9	16.3
50°-60°	7995.2	24.3
60°-70°	8215.0	25.0
70°-80°	3641.6	11.1
80°-90°	499.7	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°	32882.6	100.0
0°-180°	32882.6	100.0



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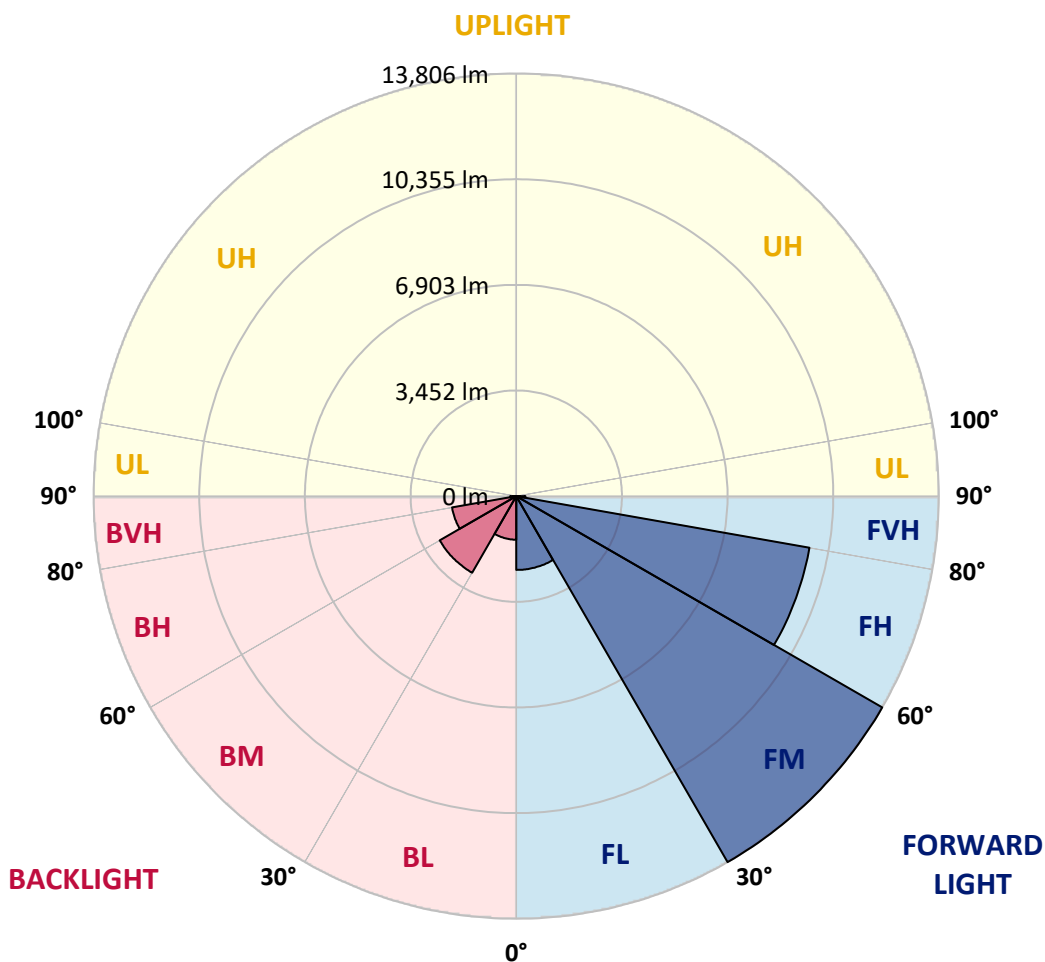
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2410.5	7.3			
FM (30°-60°)	13806.3	42.0			
FH (60°-80°)	9725.9	29.6			G4/12000
FVH (80°-90°)	299.7	0.9			G3/500
BL (0°-30°)	1422.6	4.3	B3/2500		
BM (30°-60°)	2886.9	8.8	B3/5000		
BH (60°-80°)	2130.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	200.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4152.2	4152.2	4152.2	4152.2	4152.2	4152.2	4152.2	4152.2	4152.2	4152.2	4152.2
2.5°	4416.2	4419.8	4419.8	4405.3	4409.0	4419.8	4380.0	4293.2	4293.2	4278.8	4253.4
5°	4687.5	4669.4	4644.1	4647.7	4633.2	4633.2	4589.8	4506.6	4434.3	4405.3	4329.4
7.5°	4723.6	4741.7	4738.1	4781.5	4803.2	4803.2	4824.9	4756.2	4647.7	4579.0	4503.0
10°	4796.0	4748.9	4745.3	4846.6	4879.2	4955.1	5041.9	5005.7	4915.3	4817.7	4716.4
12.5°	4839.4	4868.3	4868.3	4918.9	4994.9	5107.0	5258.9	5327.6	5186.6	5085.3	4929.8
15°	4904.5	4864.7	4980.4	5023.8	5168.5	5248.1	5465.1	5642.3	5548.3	5425.3	5179.4
17.5°	4933.4	4908.1	4973.2	5052.8	5298.7	5418.1	5682.1	5928.0	5848.5	5768.9	5515.7
20°	5081.7	5078.1	5107.0	5172.1	5349.3	5584.4	5913.6	6253.6	6282.5	6137.8	5794.2
22.5°	5443.4	5396.4	5396.4	5371.1	5447.0	5689.3	6134.2	6604.4	6734.6	6564.6	6108.9
25°	5776.1	5841.2	5801.5	5685.7	5656.8	5783.4	6293.4	6976.9	7150.5	6991.4	6535.7
27.5°	6202.9	6224.6	6293.4	6137.8	5938.9	5978.7	6467.0	7186.7	7544.8	7331.4	6778.0
30°	6817.8	6778.0	6763.5	6589.9	6329.5	6275.3	6665.9	7494.2	8062.0	7761.8	7063.7
32.5°	7233.7	7331.4	7327.8	7089.1	6774.4	6655.0	6911.8	7783.5	8615.4	8336.9	7591.8
35°	8058.4	8159.7	8080.1	7729.2	7360.3	7121.6	7266.3	8159.7	9248.3	9031.3	8040.3
37.5°	9110.9	9349.6	9179.6	8532.2	8011.4	7750.9	7758.2	8568.4	9895.8	9718.5	8521.3
40°	9837.9	10159.8	9924.7	9317.1	8763.7	8517.7	8420.1	9053.0	10669.8	10481.7	9273.7
42.5°	10738.5	11006.1	10883.2	10282.8	9635.3	9425.6	9230.2	9863.2	11852.5	11765.7	10239.4
45°	11722.3	11848.9	11809.1	11429.3	10709.5	10637.2	10206.8	10930.2	13245.0	13281.1	11447.4
47.5°	12637.3	12706.1	12782.0	12507.1	12058.6	12120.1	11331.6	12073.1	14597.7	14836.4	12792.9
50°	12872.4	13107.5	13284.8	13469.2	13566.9	13982.8	12572.2	13476.5	16152.9	16615.9	14290.2
52.5°	12633.7	12615.6	13154.6	13733.3	14709.8	15581.5	14261.3	15219.8	17527.3	18442.4	15661.0
55°	11548.7	11512.5	12380.5	13147.3	15053.4	16471.2	16673.8	17541.8	19187.5	20377.4	17516.5
57.5°	9649.8	9425.6	10373.2	11631.9	14308.3	16568.9	19097.1	20988.7	21741.0	23097.3	20348.5
60°	6485.0	6391.0	7298.8	8799.8	11617.4	15183.6	20547.4	25303.6	25339.8	26866.1	24743.0
62.5°	3993.0	4011.1	4593.4	5718.3	8134.3	12036.9	19921.7	28750.5	28757.7	30287.7	28359.9
65°	2611.4	2622.2	3092.4	3714.5	5081.7	8163.3	16474.8	29021.8	31134.0	32555.4	30016.4
66°	2325.6	2329.3	2734.4	3240.7	4210.0	6680.4	14550.7	28316.5	31669.3	32855.6	29994.7
67.5°	1960.3	2007.4	2332.9	2723.5	3284.1	4799.6	11545.0	26276.6	31394.4	32436.1	29314.7
70°	1533.6	1558.9	1815.7	2213.5	2463.1	2777.8	6861.2	21419.1	28736.0	30425.1	26840.8
72.5°	1229.7	1251.4	1446.7	1797.6	2000.1	1830.1	3736.2	15541.7	22699.5	24500.7	21111.7
75°	1038.0	1041.7	1135.7	1414.2	1645.7	1374.4	1989.3	9975.3	14565.1	15404.2	12933.9
77.5°	839.1	853.6	918.7	1077.8	1323.8	1081.4	1186.3	5588.1	7313.3	7374.8	5978.7
80°	683.6	690.8	730.6	784.9	1009.1	799.3	802.9	2727.1	3135.8	3063.5	2430.5
82.5°	538.9	546.1	593.2	582.3	741.5	571.5	499.1	1312.9	1443.1	1414.2	1117.6
85°	303.8	303.8	466.6	466.6	470.2	361.7	303.8	618.5	763.2	712.5	524.4
87.5°	97.7	101.3	141.1	148.3	235.1	162.8	148.3	231.5	361.7	318.3	188.1
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°	4152.2	4152.2	4152.2	4152.2	4152.2	4152.2	4152.2	4152.2	4152.2	4152.2	4152.2
2.5°	4239.0	4181.1	4155.8	4072.6	4050.9	3996.6	3971.3	3938.8	3927.9	3880.9	3924.3
5°	4271.5	4253.4	4152.2	4047.3	3967.7	3931.5	3877.3	3804.9	3797.7	3732.6	3725.4
7.5°	4409.0	4347.5	4170.2	4058.1	3899.0	3808.6	3689.2	3653.0	3606.0	3584.3	3631.3
10°	4622.4	4466.8	4202.8	3920.7	3725.4	3616.9	3530.1	3504.7	3508.4	3493.9	3472.2
12.5°	4774.3	4626.0	4148.5	3804.9	3551.8	3446.9	3439.6	3465.0	3504.7	3486.7	3512.0
15°	4991.3	4712.8	4108.8	3613.3	3410.7	3381.8	3378.2	3454.1	3450.5	3450.5	3446.9
17.5°	5193.8	4799.6	3964.1	3446.9	3262.4	3284.1	3309.4	3305.8	3342.0	3356.5	3381.8
20°	5450.6	4900.9	3761.5	3280.5	3150.3	3143.1	3139.4	3143.1	3179.2	3200.9	3182.8
22.5°	5674.9	4922.6	3591.6	3121.4	3016.5	2987.5	2940.5	2987.5	2969.4	2976.7	2998.4
25°	5870.2	4926.2	3349.2	3002.0	2882.6	2817.5	2781.4	2777.8	2745.2	2741.6	2741.6
27.5°	6032.9	4803.2	3135.8	2835.6	2723.5	2662.0	2658.4	2618.6	2535.4	2481.2	2488.4
30°	6159.5	4709.2	2987.5	2691.0	2582.4	2571.6	2539.0	2448.6	2340.1	2271.4	2271.4
32.5°	6383.8	4521.1	2785.0	2542.7	2488.4	2473.9	2398.0	2318.4	2217.1	2152.0	2141.2
35°	6550.1	4347.5	2651.2	2416.1	2390.8	2361.8	2296.7	2209.9	2181.0	2166.5	2177.4
37.5°	6738.2	4152.2	2488.4	2307.6	2332.9	2278.6	2202.7	2162.9	2264.2	2238.8	2249.7
40°	7038.4	4014.7	2329.3	2242.5	2267.8	2206.3	2108.6	2094.2	2220.8	2130.3	2108.6
42.5°	7588.2	4011.1	2231.6	2144.8	2162.9	2115.9	2029.1	2021.8	2072.5	1964.0	1931.4
45°	8271.8	4137.7	2159.3	2072.5	2058.0	2050.8	2021.8	1989.3	1945.9	1804.8	1768.6
47.5°	9089.2	4343.9	2144.8	1964.0	1982.0	2043.5	2007.4	1924.2	1812.1	1721.6	1703.5
50°	10080.2	4770.6	2108.6	1884.4	1916.9	2014.6	1985.7	1869.9	1768.6	1710.8	1699.9
52.5°	11176.1	5309.6	2061.6	1761.4	1833.8	1989.3	2003.7	1895.2	1746.9	1696.3	1689.1
55°	12467.3	6105.3	2007.4	1627.6	1736.1	1964.0	2003.7	1822.9	1718.0	1718.0	1710.8
57.5°	15017.2	7537.6	1895.2	1504.6	1649.3	1916.9	1945.9	1826.5	1721.6	1721.6	1707.2
60°	18757.1	9772.8	1681.8	1410.6	1566.1	1851.8	1902.5	1772.3	1681.8	1703.5	1699.9
62.5°	21683.1	10452.8	1501.0	1320.2	1482.9	1732.5	1844.6	1714.4	1634.8	1714.4	1721.6
65°	22308.8	9765.5	1316.5	1222.5	1367.2	1616.7	1761.4	1631.2	1566.1	1721.6	1728.9
66°	22084.6	9230.2	1251.4	1193.6	1316.5	1558.9	1710.8	1602.3	1529.9	1714.4	1718.0
67.5°	21086.3	8427.3	1179.1	1132.1	1247.8	1475.7	1652.9	1562.5	1472.1	1692.7	1660.1
70°	18916.2	7146.9	1056.1	1023.6	1150.2	1338.2	1519.1	1461.2	1381.6	1558.9	1501.0
72.5°	14568.7	5711.0	925.9	929.5	1038.0	1197.2	1385.3	1345.5	1276.8	1367.2	1331.0
75°	8872.2	3649.4	806.6	813.8	904.2	1063.4	1258.7	1229.7	1146.5	1197.2	1179.1
77.5°	3931.5	1808.4	680.0	694.4	766.8	936.8	1095.9	1048.9	962.1	972.9	965.7
80°	1526.3	857.2	553.4	571.5	618.5	748.7	907.8	864.4	788.5	774.0	766.8
82.5°	734.2	477.4	426.8	434.0	452.1	596.8	781.2	727.0	625.7	560.6	560.6
85°	368.9	296.6	300.2	274.9	300.2	405.1	528.1	441.3	365.3	325.5	332.8
87.5°	148.3	148.3	148.3	126.6	133.8	191.7	245.9	166.4	151.9	90.4	90.4
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)