

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: P476661

Luminaire Tested: **IFLD-L-SA7B-750-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476661
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-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

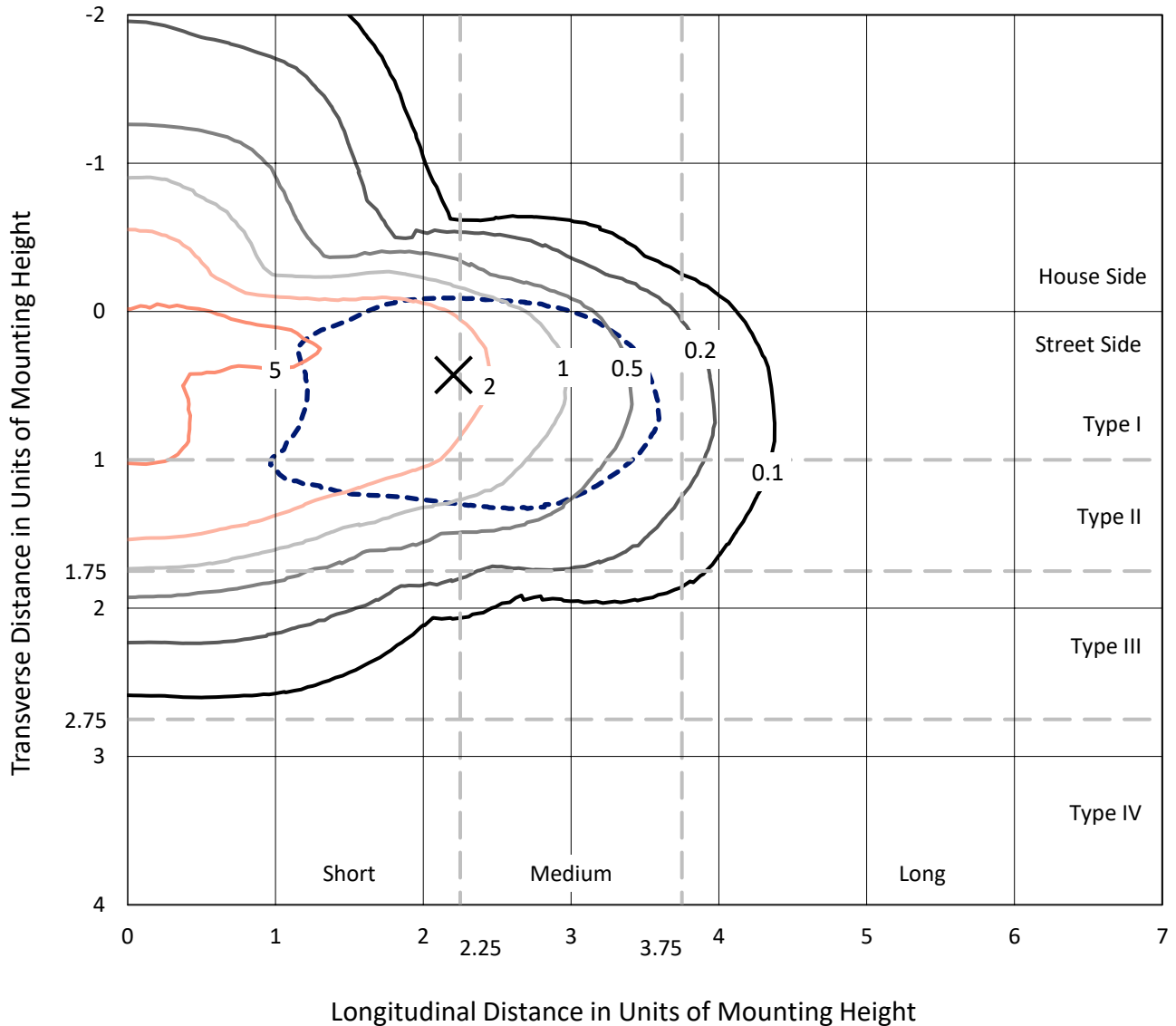
Lumens per Lamp: N/A
Luminaire Lumens: 36383.6 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

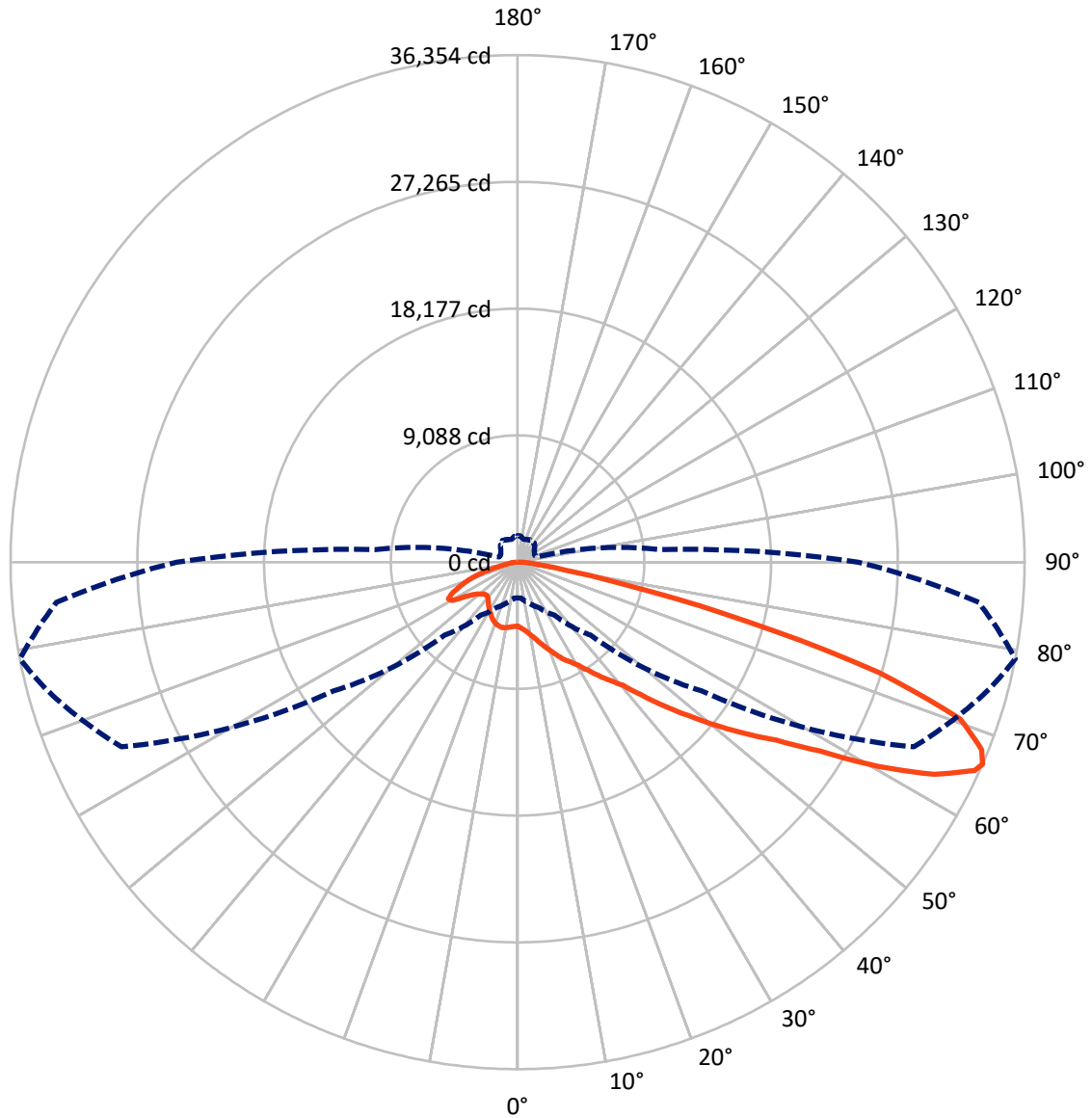
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	7347.2	0.0	7347.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	29036.5	0.0	29036.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	36383.6	0.0	36383.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.8	1.2
10°-20°	1395.0	3.8
20°-30°	2394.5	6.6
30°-40°	3699.1	10.2
40°-50°	5925.0	16.3
50°-60°	8846.4	24.3
60°-70°	9089.7	25.0
70°-80°	4029.3	11.1
80°-90°	552.9	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°	36383.6	100.0
0°-180°	36383.6	100.0

Coefficient of Utilization



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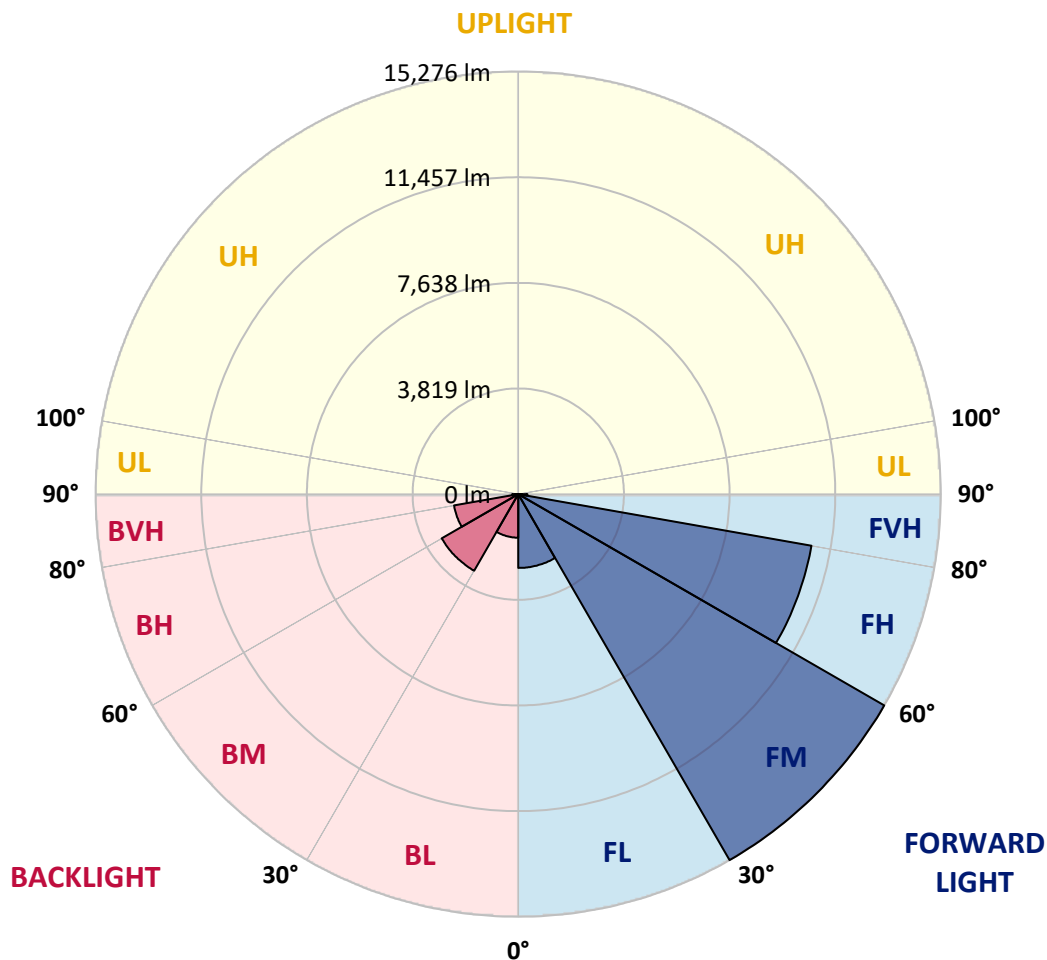
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2667.2	7.3			
FM (30°-60°)	15276.3	42.0			
FH (60°-80°)	10761.5	29.6			G4/12000
FVH (80°-90°)	331.6	0.9			G3/500
BL (0°-30°)	1574.1	4.3	B3/2500		
BM (30°-60°)	3194.2	8.8	B3/5000		
BH (60°-80°)	2357.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	221.3	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°	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2
2.5°	4886.4	4890.4	4890.4	4874.4	4878.4	4890.4	4846.4	4750.3	4750.3	4734.3	4706.3
5°	5186.5	5166.5	5138.5	5142.5	5126.5	5126.5	5078.5	4986.4	4906.4	4874.4	4790.3
7.5°	5226.6	5246.6	5242.6	5290.6	5314.6	5314.6	5338.6	5262.6	5142.5	5066.5	4982.4
10°	5306.6	5254.6	5250.6	5362.6	5398.6	5482.7	5578.7	5538.7	5438.7	5330.6	5218.5
12.5°	5354.6	5386.6	5386.6	5442.7	5526.7	5650.8	5818.8	5894.9	5738.8	5626.7	5454.7
15°	5426.7	5382.6	5510.7	5558.7	5718.8	5806.8	6047.0	6243.0	6139.0	6002.9	5730.8
17.5°	5458.7	5430.7	5502.7	5590.7	5862.9	5994.9	6287.1	6559.2	6471.2	6383.1	6103.0
20°	5622.7	5618.7	5650.8	5722.8	5918.9	6179.0	6543.2	6919.4	6951.4	6791.3	6411.1
22.5°	6022.9	5970.9	5970.9	5942.9	6026.9	6295.1	6787.3	7307.6	7451.6	7263.5	6759.3
25°	6391.1	6463.2	6419.1	6291.1	6259.1	6399.1	6963.4	7719.8	7911.9	7735.8	7231.5
27.5°	6863.4	6887.4	6963.4	6791.3	6571.2	6615.2	7155.5	7951.9	8348.1	8112.0	7499.7
30°	7543.7	7499.7	7483.7	7291.6	7003.4	6943.4	7375.6	8292.0	8920.4	8588.2	7815.8
32.5°	8003.9	8112.0	8108.0	7843.8	7495.7	7363.6	7647.7	8612.2	9532.7	9224.5	8400.1
35°	8916.4	9028.4	8940.4	8552.2	8144.0	7879.8	8039.9	9028.4	10233.0	9992.9	8896.3
37.5°	10080.9	10345.1	10157.0	9440.6	8864.3	8576.2	8584.2	9480.6	10949.3	10753.3	9428.6
40°	10885.3	11241.5	10981.4	10309.0	9696.7	9424.6	9316.5	10016.9	11805.8	11597.7	10261.0
42.5°	11881.8	12177.9	12041.9	11377.6	10661.2	10429.1	10213.0	10913.3	13114.4	13018.4	11329.5
45°	12970.3	13110.4	13066.4	12646.2	11849.8	11769.7	11293.5	12093.9	14655.2	14695.2	12666.2
47.5°	13982.8	14058.9	14142.9	13838.8	13342.5	13410.5	12538.1	13358.5	16151.9	16416.0	14154.9
50°	14243.0	14503.1	14699.2	14903.3	15011.3	15471.6	13910.8	14911.3	17872.7	18385.0	15811.7
52.5°	13978.8	13958.8	14555.1	15195.4	16275.9	17240.4	15779.7	16840.2	19393.5	20406.0	17328.5
55°	12778.2	12738.2	13698.7	14547.1	16656.1	18224.9	18449.0	19409.5	21230.4	22547.0	19381.5
57.5°	10677.2	10429.1	11477.6	12870.3	15831.7	18333.0	21130.3	23223.3	24055.7	25556.5	22515.0
60°	7175.5	7071.5	8075.9	9736.8	12854.3	16800.2	22735.1	27997.7	28037.7	29726.5	27377.4
62.5°	4418.2	4438.2	5082.5	6327.1	9000.4	13318.5	22042.8	31811.5	31819.5	33512.4	31379.3
65°	2889.4	2901.4	3421.7	4110.0	5622.7	9032.4	18228.9	32111.7	34448.8	36021.6	33212.2
66°	2573.3	2577.3	3025.5	3585.8	4658.3	7391.6	16099.9	31331.3	35041.1	36353.8	33188.2
67.5°	2169.1	2221.1	2581.3	3013.5	3633.8	5310.6	12774.2	29074.2	34737.0	35889.5	32435.8
70°	1696.8	1724.8	2009.0	2449.2	2725.3	3073.5	7591.7	23699.6	31795.5	33664.4	29698.5
72.5°	1360.7	1384.7	1600.8	1989.0	2213.1	2025.0	4134.0	17196.4	25116.3	27109.2	23359.4
75°	1148.6	1152.6	1256.6	1564.8	1820.9	1520.7	2201.1	11037.4	16115.9	17044.3	14311.0
77.5°	928.5	944.5	1016.5	1192.6	1464.7	1196.6	1312.6	6183.0	8092.0	8160.0	6615.2
80°	756.4	764.4	808.4	868.4	1116.5	884.4	888.4	3017.5	3469.7	3389.7	2689.3
82.5°	596.3	604.3	656.3	644.3	820.4	632.3	552.3	1452.7	1596.8	1564.8	1236.6
85°	336.2	336.2	516.3	516.3	520.3	400.2	336.2	684.3	844.4	788.4	580.3
87.5°	108.1	112.1	156.1	164.1	260.1	180.1	164.1	256.1	400.2	352.2	208.1
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°	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2
2.5°	4690.3	4626.3	4598.2	4506.2	4482.2	4422.2	4394.1	4358.1	4346.1	4294.1	4342.1
5°	4726.3	4706.3	4594.2	4478.2	4390.1	4350.1	4290.1	4210.1	4202.1	4130.0	4122.0
7.5°	4878.4	4810.3	4614.3	4490.2	4314.1	4214.1	4082.0	4042.0	3989.9	3965.9	4018.0
10°	5114.5	4942.4	4650.3	4338.1	4122.0	4002.0	3905.9	3877.9	3881.9	3865.9	3841.9
12.5°	5282.6	5118.5	4590.2	4210.1	3929.9	3813.9	3805.9	3833.9	3877.9	3857.9	3885.9
15°	5522.7	5214.5	4546.2	3998.0	3773.8	3741.8	3737.8	3821.9	3817.9	3817.9	3813.9
17.5°	5746.8	5310.6	4386.1	3813.9	3609.8	3633.8	3661.8	3657.8	3697.8	3713.8	3741.8
20°	6030.9	5422.6	4162.0	3629.8	3485.7	3477.7	3473.7	3477.7	3517.7	3541.7	3521.7
22.5°	6279.1	5446.7	3973.9	3453.7	3337.6	3305.6	3253.6	3305.6	3285.6	3293.6	3317.6
25°	6495.2	5450.7	3705.8	3321.6	3189.6	3117.5	3077.5	3073.5	3037.5	3033.5	3033.5
27.5°	6675.3	5314.6	3469.7	3137.5	3013.5	2945.4	2941.4	2897.4	2805.4	2745.3	2753.3
30°	6815.3	5210.5	3305.6	2977.5	2857.4	2845.4	2809.4	2709.3	2589.3	2513.2	2513.2
32.5°	7063.4	5002.4	3081.5	2813.4	2753.3	2737.3	2653.3	2565.3	2453.2	2381.2	2369.2
35°	7247.5	4810.3	2933.4	2673.3	2645.3	2613.3	2541.2	2445.2	2413.2	2397.2	2409.2
37.5°	7455.6	4594.2	2753.3	2553.2	2581.3	2521.2	2437.2	2393.2	2505.2	2477.2	2489.2
40°	7787.8	4442.2	2577.3	2481.2	2509.2	2441.2	2333.1	2317.1	2457.2	2357.2	2333.1
42.5°	8396.1	4438.2	2469.2	2373.2	2393.2	2341.1	2245.1	2237.1	2293.1	2173.1	2137.0
45°	9152.5	4578.2	2389.2	2293.1	2277.1	2269.1	2237.1	2201.1	2153.1	1997.0	1957.0
47.5°	10056.9	4806.3	2373.2	2173.1	2193.1	2261.1	2221.1	2129.0	2005.0	1904.9	1884.9
50°	11153.4	5278.6	2333.1	2085.0	2121.0	2229.1	2197.1	2069.0	1957.0	1892.9	1880.9
52.5°	12366.0	5874.9	2281.1	1949.0	2029.0	2201.1	2217.1	2097.0	1932.9	1876.9	1868.9
55°	13794.7	6755.3	2221.1	1800.9	1920.9	2173.1	2217.1	2017.0	1900.9	1900.9	1892.9
57.5°	16616.1	8340.1	2097.0	1664.8	1824.9	2121.0	2153.1	2021.0	1904.9	1904.9	1888.9
60°	20754.1	10813.3	1860.9	1560.8	1732.8	2049.0	2105.0	1961.0	1860.9	1884.9	1880.9
62.5°	23991.7	11565.6	1660.8	1460.7	1640.8	1916.9	2041.0	1896.9	1808.9	1896.9	1904.9
65°	24684.1	10805.3	1456.7	1352.7	1512.7	1788.9	1949.0	1804.9	1732.8	1904.9	1912.9
66°	24435.9	10213.0	1384.7	1320.6	1456.7	1724.8	1892.9	1772.9	1692.8	1896.9	1900.9
67.5°	23331.4	9324.6	1304.6	1252.6	1380.7	1632.8	1828.9	1728.8	1628.8	1872.9	1836.9
70°	20930.2	7907.9	1168.6	1132.6	1272.6	1480.7	1680.8	1616.8	1528.7	1724.8	1660.8
72.5°	16119.9	6319.1	1024.5	1028.5	1148.6	1324.6	1532.7	1488.7	1412.7	1512.7	1472.7
75°	9816.8	4038.0	892.4	900.4	1000.5	1176.6	1392.7	1360.7	1268.6	1324.6	1304.6
77.5°	4350.1	2001.0	752.4	768.4	848.4	1036.5	1212.6	1160.6	1064.5	1076.5	1068.5
80°	1688.8	948.5	612.3	632.3	684.3	828.4	1004.5	956.5	872.4	856.4	848.4
82.5°	812.4	528.3	472.2	480.2	500.2	660.3	864.4	804.4	692.3	620.3	620.3
85°	408.2	328.2	332.2	304.1	332.2	448.2	584.3	488.2	404.2	360.2	368.2
87.5°	164.1	164.1	164.1	140.1	148.1	212.1	272.1	184.1	168.1	100.0	100.0
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)