

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: P477164

Luminaire Tested: **IFLD-M-SA4C-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477164
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

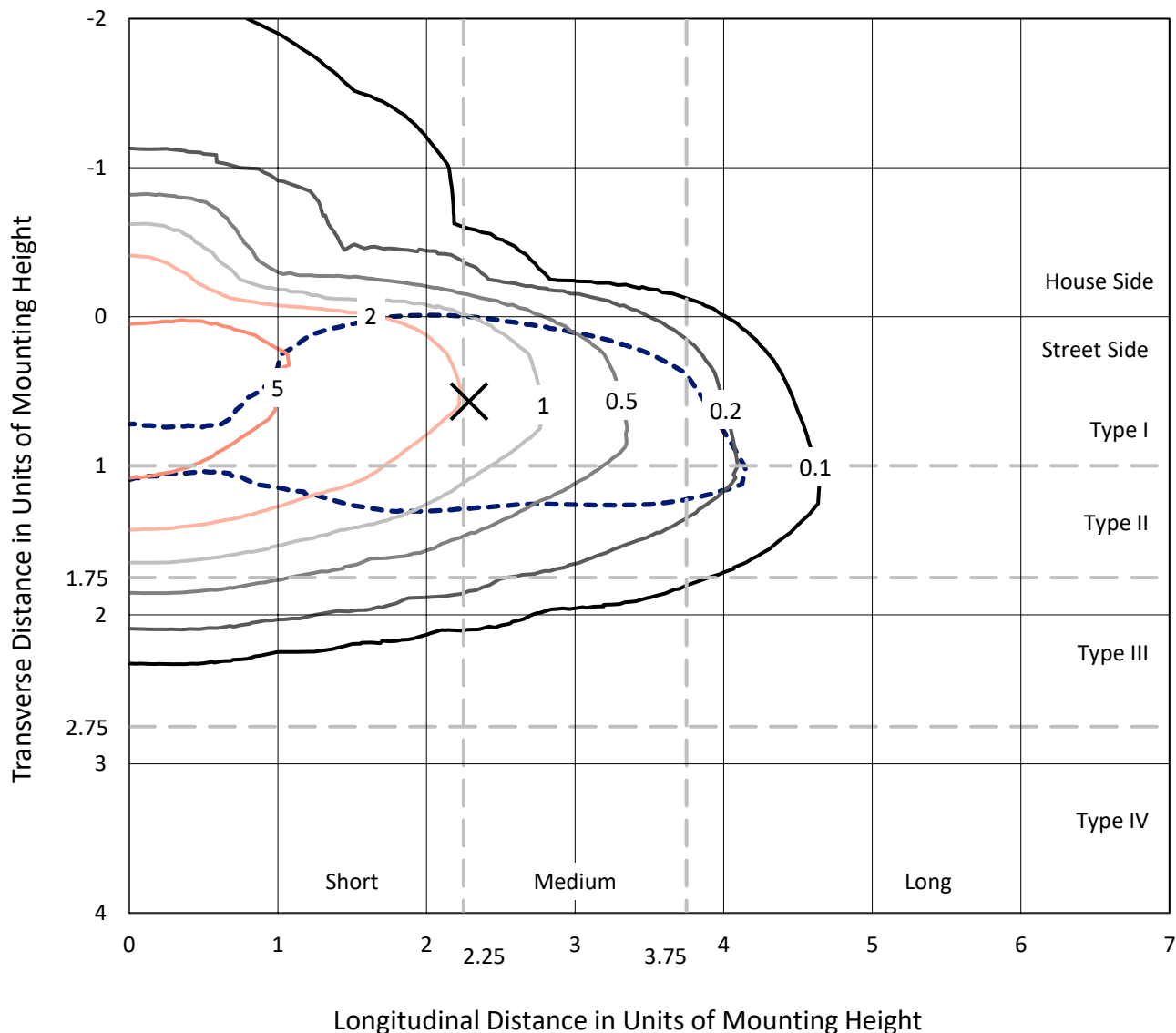
Lumens per Lamp: N/A
Luminaire Lumens: 22718.8 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1
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

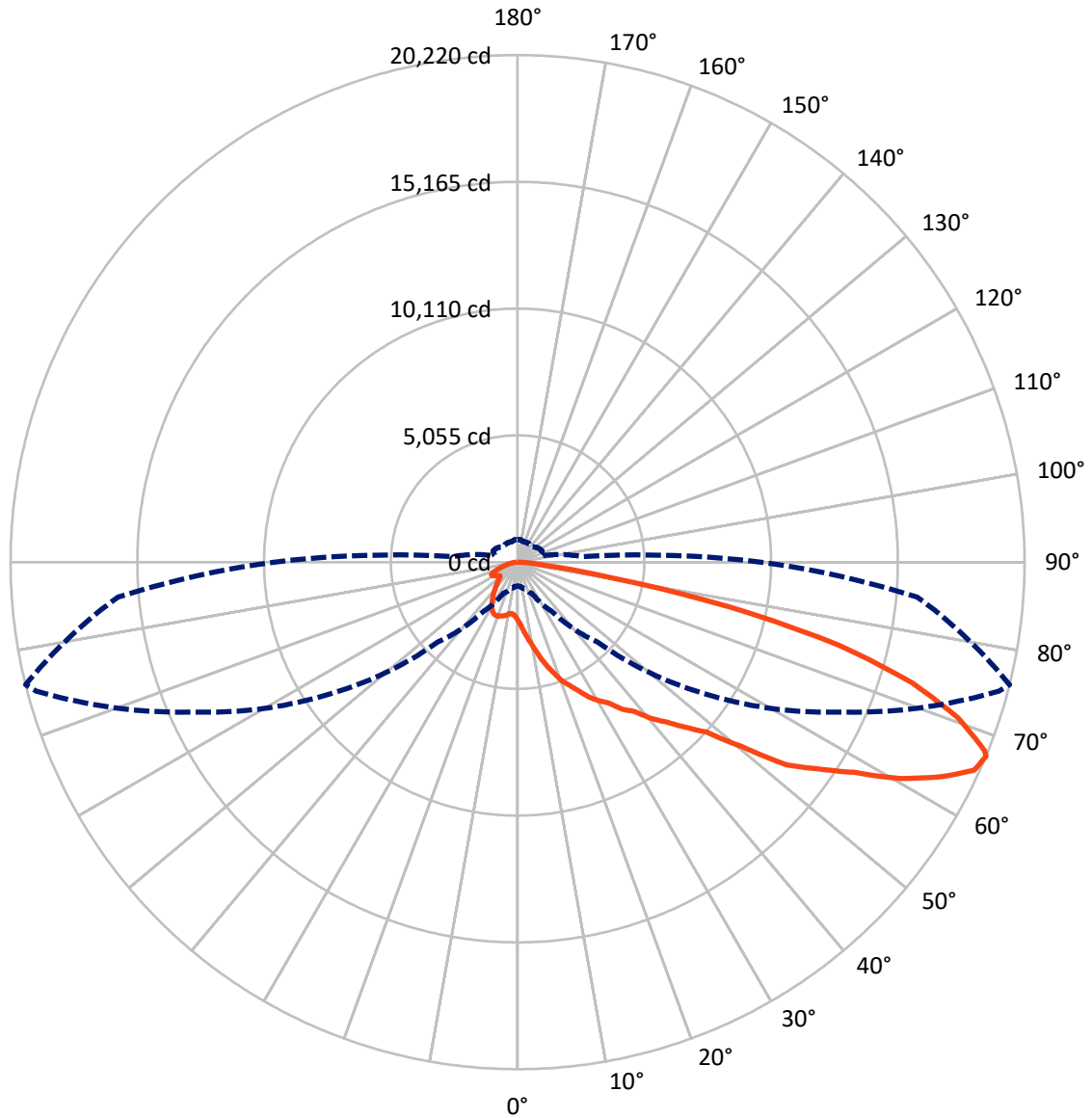
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3232.0	0.0	3232.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19486.7	0.0	19486.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	22718.8	0.0	22718.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.3	1.2
10°-20°	1010.0	4.4
20°-30°	1877.8	8.3
30°-40°	2976.8	13.1
40°-50°	4117.1	18.1
50°-60°	5064.3	22.3
60°-70°	4712.6	20.7
70°-80°	2364.8	10.4
80°-90°	326.1	1.4
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°	22718.8	100.0
0°-180°	22718.8	100.0

Coefficient of Utilization



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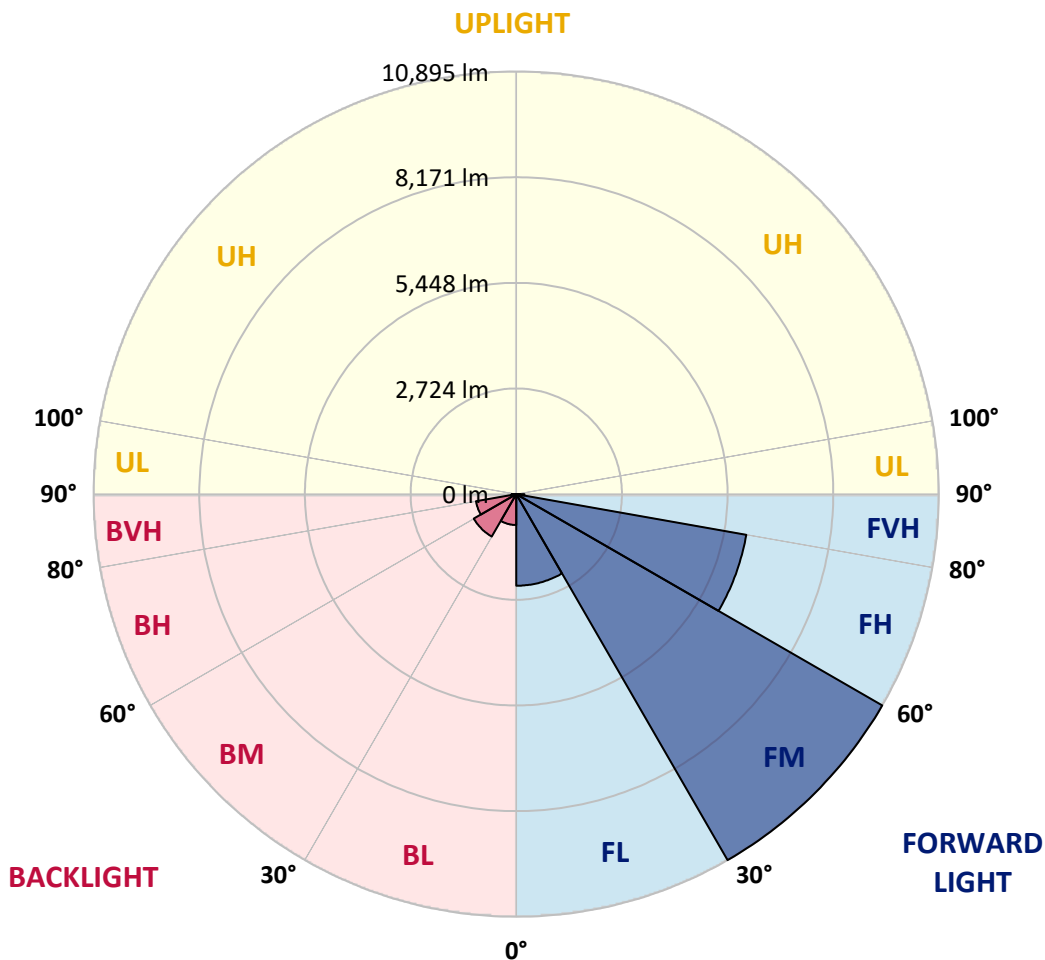
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2361.2	10.4			
FM (30°-60°)	10895.2	48.0			
FH (60°-80°)	6022.6	26.5			G3/7500
FVH (80°-90°)	207.7	0.9			G2/225
BL (0°-30°)	795.9	3.5	B2/1000		
BM (30°-60°)	1263.0	5.6	B2/2500		
BH (60°-80°)	1054.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	118.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2324.9	2324.9	2324.9	2324.9	2324.9	2324.9	2324.9	2324.9	2324.9	2324.9	2324.9
2.5°	3225.9	3187.1	3148.2	3065.4	3036.9	2959.2	2816.8	2658.9	2529.5	2511.3	2420.7
5°	4002.6	3945.6	3932.7	3886.1	3738.5	3588.4	3355.3	3101.6	2785.8	2809.1	2498.4
7.5°	4585.1	4551.5	4481.6	4437.5	4349.5	4150.2	3909.4	3572.8	3171.5	3093.9	2671.8
10°	5025.2	4978.6	4976.1	4937.2	4890.6	4686.1	4502.3	4049.2	3534.0	3427.8	2884.1
12.5°	5247.9	5240.1	5377.3	5377.3	5359.2	5273.8	4957.9	4543.7	3878.3	3842.1	3130.1
15°	5488.7	5424.0	5543.0	5633.7	5680.3	5724.3	5462.8	5025.2	4318.4	4248.5	3394.2
17.5°	5488.7	5483.5	5602.6	5752.8	5996.1	6053.1	5910.7	5468.0	4683.5	4631.7	3684.1
20°	5395.5	5470.6	5553.4	5755.3	6019.4	6249.8	6291.3	5921.0	5087.4	5046.0	4012.9
22.5°	5830.4	5757.9	5843.4	5921.0	6125.6	6475.1	6589.0	6319.7	5512.0	5354.0	4310.7
25°	6560.5	6511.3	6449.2	6335.3	6420.7	6573.5	6746.9	6614.9	5874.4	5698.4	4598.1
27.5°	7272.5	7275.1	7140.5	6891.9	6708.1	6739.2	6943.7	6873.8	6179.9	6102.3	4794.8
30°	8284.8	8222.7	8072.5	7735.9	7376.1	7080.9	7047.3	7114.6	6568.3	6418.1	5077.0
32.5°	9043.4	9056.3	8844.0	8359.9	7868.0	7627.2	7332.0	7360.5	6814.2	6702.9	5302.3
35°	9657.0	9641.4	9491.3	9090.0	8507.4	8217.5	7818.8	7655.7	7386.4	7210.4	5646.6
37.5°	10319.7	10192.9	9949.5	9496.4	9123.6	8722.3	8334.0	7966.3	7767.0	7554.7	5941.8
40°	10586.4	10586.4	10260.2	10053.1	9610.4	9307.4	9056.3	8375.4	8230.4	8189.0	6319.7
42.5°	10397.4	10513.9	10379.3	10143.7	9962.5	9579.3	9512.0	8800.0	8802.6	8719.7	6772.8
45°	10379.3	10218.8	10107.4	10167.0	10081.6	10060.8	10231.7	9387.7	9403.2	9392.9	7381.2
47.5°	9858.9	9786.4	9952.1	10050.5	10120.4	10441.4	10933.3	10089.3	10200.7	10123.0	8082.9
50°	9341.1	9328.2	9431.7	9789.0	10091.9	10620.1	11601.3	11171.5	11536.6	11531.4	9354.1
52.5°	7922.3	8059.6	8466.0	9222.0	9970.2	10863.4	12106.2	12554.1	13250.5	13439.5	10407.8
55°	6565.7	6493.2	7093.9	8191.6	9439.5	10959.2	12670.6	13385.1	14410.4	14547.6	11490.0
57.5°	5108.1	5242.7	5716.5	6770.2	8341.8	10485.4	13084.8	14205.8	15720.4	15826.5	12745.6
60°	3811.0	3829.1	4349.5	5198.7	6881.6	9416.2	13219.4	15047.3	17222.0	17524.9	14060.8
62.5°	2397.4	2506.2	2902.3	3738.5	5180.6	7919.7	12616.2	15557.3	18796.1	18876.4	15386.4
65°	1291.9	1361.8	1659.5	2185.1	3619.4	5990.9	11016.2	15251.8	19536.6	20013.0	15976.7
67°	955.3	968.3	1105.5	1395.5	2420.7	4510.0	9185.8	14146.3	19873.1	20220.1	16000.0
67.5°	895.8	913.9	1022.7	1253.1	2146.3	4152.8	8706.8	13752.8	19723.0	20095.8	15818.8
70°	766.3	771.5	797.4	862.1	1203.9	2498.4	5928.8	11269.9	18280.9	18638.2	14547.6
72.5°	680.9	686.1	696.4	709.4	815.5	1444.7	3606.5	8673.1	15888.7	16458.3	12551.5
75°	598.1	616.2	621.4	611.0	693.9	939.8	1918.4	6374.1	12960.5	13237.5	9760.5
77.5°	507.4	515.2	525.6	535.9	618.8	701.6	921.7	4302.9	8895.8	8727.5	5279.0
80°	427.2	429.8	437.5	445.3	535.9	535.9	523.0	2324.9	3886.1	3715.2	1783.8
82.5°	305.5	323.6	341.7	362.5	445.3	359.9	341.7	1035.6	1229.8	1170.2	603.2
85°	119.1	145.0	225.2	248.5	282.2	194.2	227.8	447.9	512.6	507.4	225.2
87.5°	20.7	23.3	62.1	95.8	103.6	67.3	108.7	160.5	191.6	207.1	82.8
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°	2324.9	2324.9	2324.9	2324.9	2324.9	2324.9	2324.9	2324.9	2324.9	2324.9	2324.9
2.5°	2345.6	2265.4	2169.6	2073.8	2011.7	1913.3	1905.5	1846.0	1838.2	1817.5	1827.8
5°	2363.8	2268.0	2073.8	1921.0	1851.1	1794.2	1807.1	1781.2	1773.5	1760.5	1739.8
7.5°	2506.2	2317.2	2027.2	1895.1	1843.4	1817.5	1817.5	1786.4	1763.1	1778.6	1794.2
10°	2599.4	2340.5	2063.4	1931.4	1890.0	1833.0	1853.7	1814.9	1827.8	1796.8	1796.8
12.5°	2749.5	2472.5	2138.5	1985.8	1918.4	1866.7	1887.4	1843.4	1833.0	1835.6	1827.8
15°	2951.5	2560.5	2172.2	2016.8	1970.2	1905.5	1890.0	1851.1	1812.3	1799.4	1814.9
17.5°	3140.5	2669.3	2195.5	2035.0	1959.9	1887.4	1869.3	1820.1	1807.1	1768.3	1737.2
20°	3365.7	2798.7	2226.5	2050.5	1921.0	1848.5	1801.9	1752.8	1708.7	1685.4	1695.8
22.5°	3515.9	2866.0	2242.1	2019.4	1864.1	1796.8	1698.4	1664.7	1602.6	1576.7	1556.0
25°	3761.8	2948.9	2203.2	1934.0	1763.1	1654.4	1566.3	1519.7	1475.7	1442.1	1431.7
27.5°	3824.0	3011.0	2112.6	1789.0	1602.6	1488.7	1413.6	1356.6	1328.2	1276.4	1266.0
30°	4005.2	2948.9	1978.0	1612.9	1449.8	1333.3	1258.3	1216.8	1149.5	1136.6	1108.1
32.5°	4121.7	2967.0	1807.1	1442.1	1273.8	1170.2	1121.0	1079.6	1061.5	999.4	983.8
35°	4315.9	2904.9	1633.7	1284.1	1128.8	1048.5	1007.1	994.2	934.6	906.1	880.3
37.5°	4440.1	2868.6	1460.2	1105.5	970.9	937.2	950.2	895.8	823.3	768.9	750.8
40°	4657.6	2855.7	1263.4	957.9	862.1	854.4	895.8	792.2	660.2	613.6	587.7
42.5°	4970.9	2767.6	1110.7	825.9	776.7	810.4	818.1	660.2	585.1	546.3	528.2
45°	5271.2	2785.8	960.5	683.5	675.7	724.9	706.8	559.2	515.2	486.7	502.3
47.5°	5848.5	2876.4	812.9	569.6	608.4	655.0	548.9	499.7	458.3	437.5	440.1
50°	6741.8	2964.4	683.5	520.4	574.8	592.9	471.2	453.1	450.5	409.1	406.5
52.5°	7277.7	2930.7	660.2	582.5	616.2	592.9	512.6	499.7	479.0	460.8	440.1
55°	8129.5	3029.1	709.4	680.9	699.0	569.6	574.8	569.6	554.0	507.4	520.4
57.5°	8807.8	3093.9	774.1	761.2	750.8	592.9	600.6	603.2	592.9	572.2	590.3
60°	9739.8	3223.3	841.4	844.0	846.6	644.7	657.6	673.1	670.6	662.8	668.0
62.5°	10312.0	3163.8	916.5	957.9	945.0	750.8	748.2	758.6	758.6	771.5	779.3
65°	10226.5	2943.7	955.3	1058.9	991.6	828.5	828.5	833.7	836.2	862.1	864.7
67°	9713.9	2550.2	934.6	1074.4	991.6	859.5	859.5	864.7	846.6	913.9	893.2
67.5°	9475.7	2433.7	916.5	1061.5	983.8	857.0	857.0	859.5	844.0	908.7	888.0
70°	8240.8	1807.1	789.6	939.8	911.3	833.7	833.7	818.1	805.2	890.6	872.5
72.5°	7034.3	1312.6	634.3	800.0	823.3	802.6	807.8	768.9	732.7	792.2	776.7
75°	5387.7	965.7	494.5	616.2	696.4	750.8	784.5	686.1	639.5	655.0	626.5
77.5°	3005.8	629.1	390.9	455.7	530.7	699.0	753.4	618.8	523.0	504.9	504.9
80°	1020.1	367.6	287.4	339.2	365.0	618.8	704.2	502.3	411.7	393.5	380.6
82.5°	385.8	225.2	196.8	233.0	233.0	489.3	574.8	385.8	310.7	401.3	409.1
85°	176.1	134.6	129.4	134.6	134.6	300.3	406.5	251.1	279.6	240.8	212.3
87.5°	69.9	64.7	59.5	57.0	46.6	51.8	139.8	67.3	126.9	33.7	31.1
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)