

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: P1211509

Luminaire Tested: **ARCH4-300-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-300-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35487 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 299.2
Input Voltage (V): NR
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



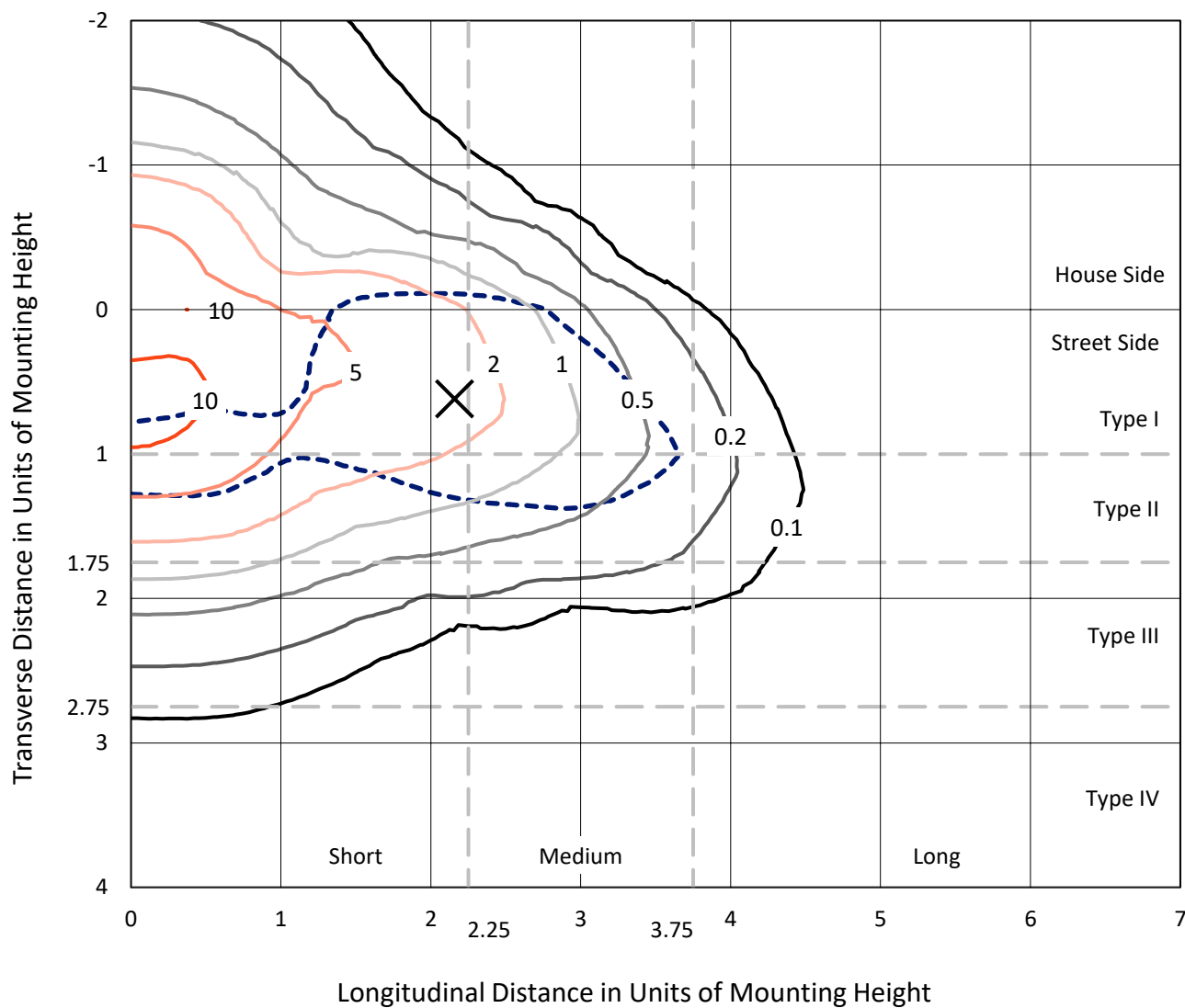
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Iso-Footcandle Lines of Horizontal Illumination

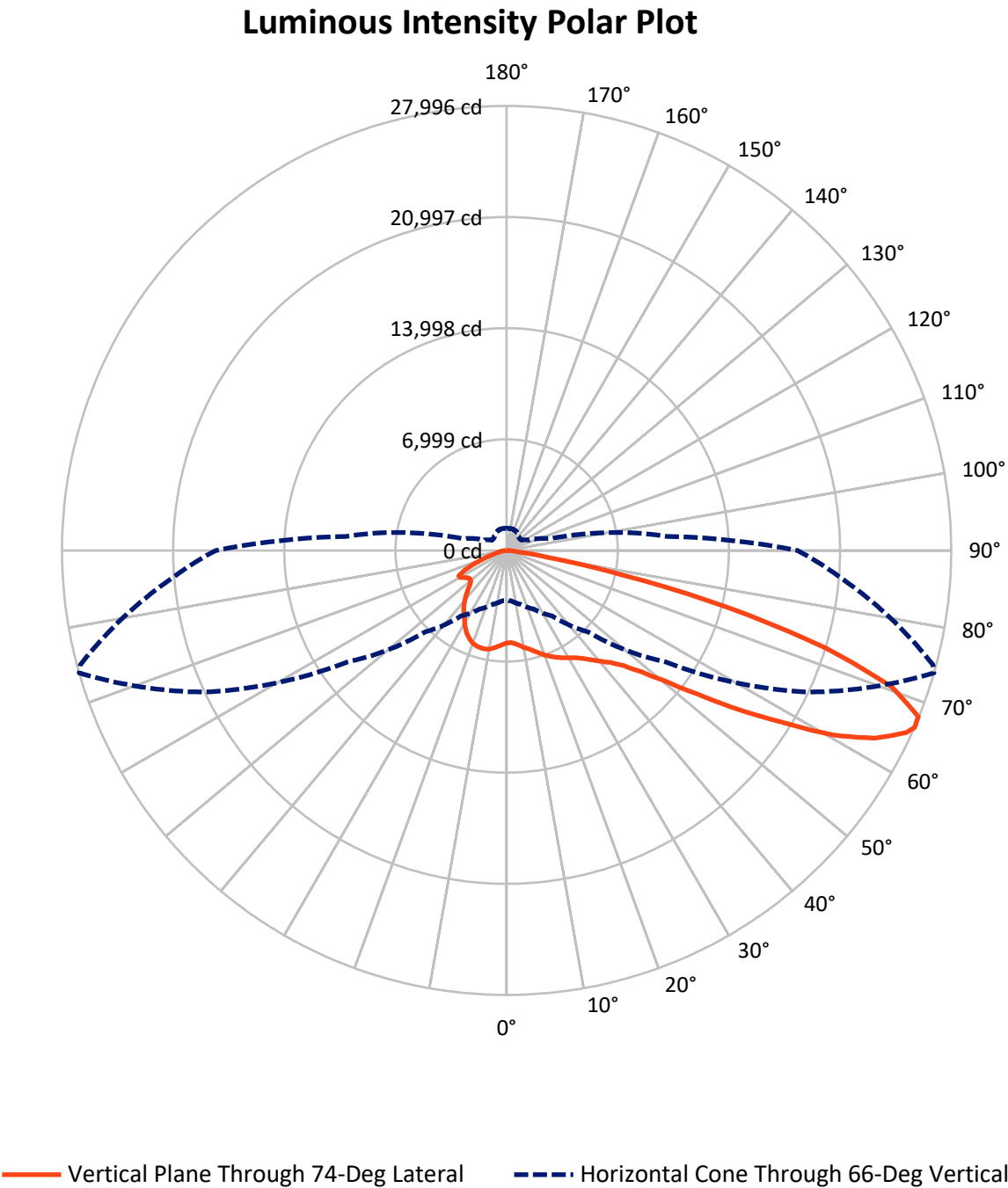
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8642.1	0.0	8642.1
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	26844.9	0.0	26844.9
	% Fixture	75.6	0.0	75.6
Total	Lumens	35487.0	0.0	35487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.9	1.6
10°-20°	1706.5	4.8
20°-30°	3202.3	9.0
30°-40°	4926.0	13.9
40°-50°	6625.9	18.7
50°-60°	7835.9	22.1
60°-70°	7248.6	20.4
70°-80°	3049.4	8.6
80°-90°	337.4	1.0
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°	35487.0	100.0
0°-180°	35487.0	100.0

Coefficient of Utilization



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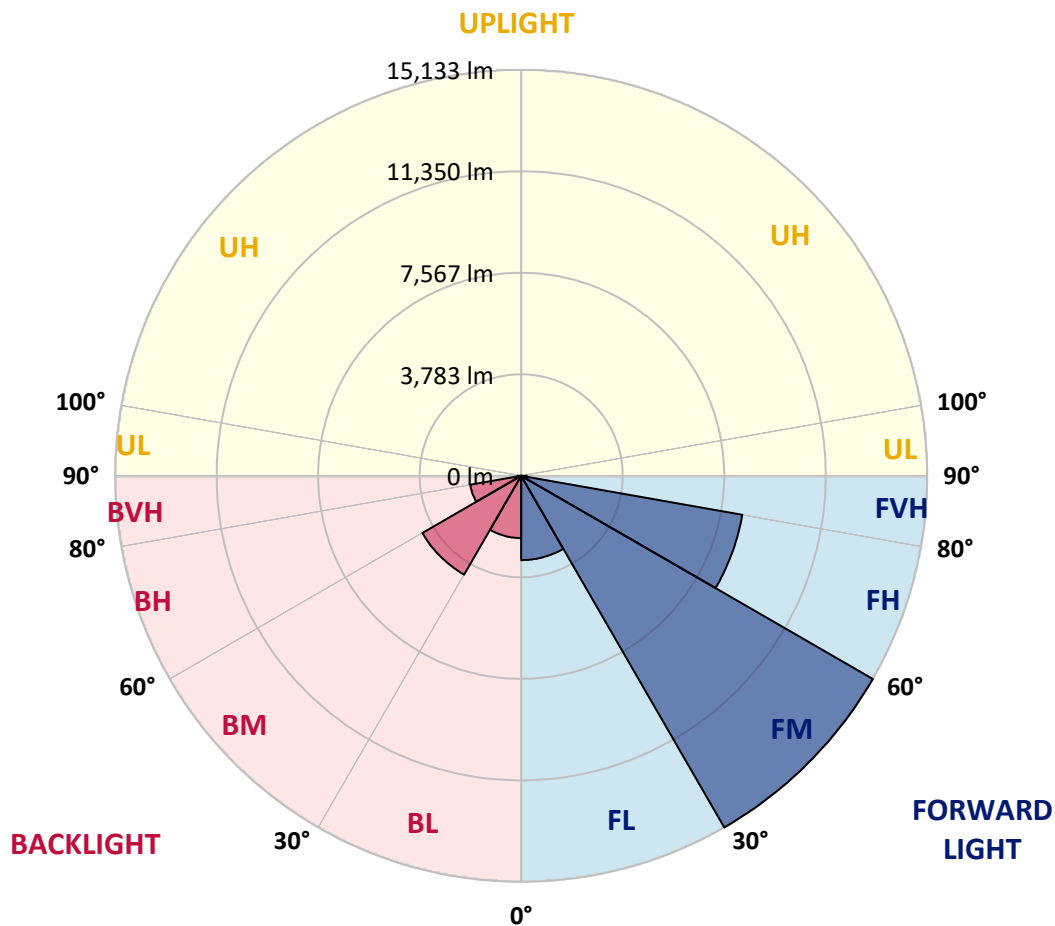
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3141.0	8.9			
FM	(30°-60°)	15133.2	42.6			
FH	(60°-80°)	8368.8	23.6			G4/12000
FVH	(80°-90°)	201.9	0.6			G2/225
BL	(0°-30°)	2322.8	6.5	B3/2500		
BM	(30°-60°)	4254.5	12.0	B3/5000		
BH	(60°-80°)	1929.2	5.4	B3/2500		G3/2500
BVH	(80°-90°)	135.6	0.4			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°	74°	75°	85°
0°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	5799.2	5790.1	5808.4	5835.8	5849.5	5826.6	5817.5	5812.9	5812.9	5799.2	5822.1
5°	5525.3	5520.7	5561.8	5612.0	5707.9	5776.4	5867.7	5922.5	5904.3	5876.9	5895.1
7.5°	5169.1	5159.9	5210.2	5306.1	5438.5	5589.2	5812.9	5986.5	6054.9	6045.8	6041.2
10°	5306.1	5296.9	5292.4	5265.0	5310.6	5456.8	5689.6	5995.6	6228.5	6233.0	6237.6
12.5°	5781.0	5803.8	5781.0	5694.2	5593.7	5539.0	5675.9	6018.4	6374.6	6402.0	6516.1
15°	6429.4	6406.6	6360.9	6260.4	6105.2	5940.8	5840.3	6123.4	6584.6	6607.5	6858.6
17.5°	7000.2	7018.4	6991.0	6895.2	6712.5	6497.9	6191.9	6306.1	6808.4	6872.3	7223.9
20°	7621.2	7694.3	7657.7	7539.0	7388.3	7068.7	6685.1	6570.9	7055.0	7100.6	7602.9
22.5°	8338.1	8415.7	8347.2	8233.1	8109.8	7717.1	7223.9	6895.2	7260.5	7356.4	7968.2
25°	9196.6	9269.6	9205.7	9027.6	8872.4	8392.9	7803.9	7260.5	7461.4	7566.4	8265.0
27.5°	9877.0	9931.8	9991.1	9886.1	9648.6	9150.9	8406.6	7639.5	7662.3	7771.9	8539.0
30°	10484.3	10621.3	10671.5	10685.2	10484.3	9927.2	9023.1	8032.2	7835.8	7950.0	8813.0
32.5°	11315.4	11520.8	11438.6	11520.8	11402.1	10657.8	9662.3	8438.6	8059.6	8164.6	9073.3
35°	12530.0	12694.4	12479.8	12415.8	12224.1	11397.5	10278.8	8858.7	8356.4	8470.5	9319.9
37.5°	13836.0	14023.2	13712.7	13457.0	13091.7	12128.2	10808.5	9411.2	8767.3	8858.7	9548.2
40°	14977.5	15132.8	14863.4	14525.5	13913.6	12772.0	11265.1	9799.3	9178.3	9292.5	9813.0
42.5°	16032.4	16132.8	15831.5	15507.2	14689.9	13351.9	11758.3	10210.3	9657.8	9767.4	10027.7
45°	17100.9	17178.5	16758.4	16297.2	15338.3	13881.6	12301.7	10785.7	10361.0	10507.1	10374.7
47.5°	17292.7	17315.5	17242.4	16931.9	15849.7	14388.5	12972.9	11557.4	11434.1	11593.9	10972.9
50°	15963.9	16169.4	16621.4	16927.4	16055.2	14813.2	13644.2	12662.4	12913.6	13119.1	12214.9
52.5°	13383.9	13580.3	14625.9	15785.8	15562.0	14909.1	14365.7	14064.3	15000.4	15247.0	13904.5
55°	10662.4	10835.9	11940.9	13612.2	13968.4	14470.7	15137.4	15854.3	17662.5	17826.9	15758.4
57.5°	8781.0	8876.9	9666.9	11274.3	11845.0	13068.8	15552.9	17982.2	20370.4	20621.5	17370.3
60°	7201.1	7306.1	7895.2	9219.4	9977.4	11064.2	15224.1	20082.7	23603.3	23603.3	19438.8
62.5°	5420.2	5511.6	6059.5	7096.1	8370.1	9365.5	14173.9	21475.4	26041.8	25932.2	20936.6
65°	3721.6	3794.6	4191.9	4881.4	6027.6	7981.9	12740.0	21493.7	27658.2	27512.1	21575.9
66°	3123.4	3187.3	3525.2	4082.3	5045.8	7242.2	12233.2	21105.6	27996.1	27790.7	21306.5
67.5°	2465.8	2511.5	2735.2	3064.0	3698.7	5863.2	11434.1	20005.1	27964.2	27840.9	20621.5
70°	1762.6	1794.6	1959.0	2027.4	2187.3	3392.8	9082.4	17521.0	25722.1	25758.6	17927.4
72.5°	1365.3	1415.6	1516.0	1529.7	1493.2	1803.7	5511.6	14616.8	21041.6	21027.9	13306.3
75°	1100.5	1127.9	1178.1	1205.5	1196.4	1164.4	2333.4	10904.4	14484.4	14653.3	7452.2
77.5°	867.6	863.0	908.7	945.2	972.6	913.3	1068.5	6392.9	7593.8	7379.2	2799.2
80°	639.3	639.3	703.2	716.9	758.0	767.1	712.3	2465.8	2607.4	2369.9	726.0
82.5°	420.1	420.1	488.6	497.7	538.8	598.2	516.0	739.7	721.5	684.9	328.8
85°	228.3	219.2	242.0	274.0	296.8	351.6	310.5	369.9	379.0	374.4	219.2
87.5°	45.7	41.1	63.9	73.1	82.2	109.6	100.5	150.7	210.1	205.5	95.9
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°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	5854.0	5849.5	5899.7	5959.1	6027.6	6068.6	6086.9	6118.9	6096.0	6105.2	6132.6
5°	5940.8	5954.5	6027.6	6105.2	6137.1	6114.3	6064.1	6045.8	6004.7	5995.6	5986.5
7.5°	6068.6	6091.5	6164.5	6182.8	6086.9	5927.1	5812.9	5749.0	5680.5	5662.2	5653.1
10°	6278.7	6292.4	6310.7	6123.4	5886.0	5671.4	5529.8	5470.5	5424.8	5388.3	5397.4
12.5°	6543.5	6534.4	6392.9	6004.7	5666.8	5447.6	5351.7	5315.2	5283.2	5260.4	5255.8
15°	6876.9	6813.0	6406.6	5840.3	5461.3	5278.7	5210.2	5196.5	5159.9	5159.9	5155.4
17.5°	7214.8	7050.4	6397.4	5666.8	5265.0	5164.5	5123.4	5114.3	5105.2	5100.6	5114.3
20°	7552.7	7260.5	6324.4	5452.2	5128.0	5068.6	5059.5	5064.1	5054.9	5068.6	5059.5
22.5°	7849.5	7397.4	6187.4	5223.9	5032.1	5027.5	5004.7	5013.8	5045.8	5050.4	5064.1
25°	8077.8	7447.7	5986.5	5013.8	4963.6	4954.5	4981.9	5018.4	5045.8	5050.4	5073.2
27.5°	8265.0	7420.3	5735.3	4849.4	4844.9	4895.1	4977.3	4991.0	4995.6	4995.6	4977.3
30°	8406.6	7360.9	5415.7	4666.8	4689.6	4812.9	4890.5	4890.5	4854.0	4844.9	4872.3
32.5°	8438.6	7283.3	5068.6	4479.6	4516.1	4662.2	4758.1	4726.1	4685.1	4685.1	4703.3
35°	8466.0	7178.3	4790.1	4223.9	4278.6	4452.2	4543.5	4479.6	4433.9	4420.2	4415.6
37.5°	8456.8	7137.2	4538.9	3899.6	3972.7	4141.7	4201.0	4141.7	4073.2	4041.2	4082.3
40°	8466.0	7109.8	4223.9	3543.5	3616.5	3717.0	3794.6	3749.0	3685.0	3602.8	3643.9
42.5°	8520.8	7146.3	3876.8	3196.4	3196.4	3251.2	3383.6	3351.7	3196.4	3164.5	3201.0
45°	8813.0	7342.7	3529.8	2849.4	2799.2	2835.7	2972.7	2835.7	2739.8	2739.8	2771.8
47.5°	9520.8	7708.0	3223.8	2543.4	2424.7	2497.8	2534.3	2406.5	2333.4	2315.1	2347.1
50°	10963.7	8438.6	3041.2	2292.3	2146.2	2201.0	2178.1	2173.6	2100.5	2109.6	2127.9
52.5°	13155.6	9863.3	2986.4	2169.0	1986.4	2000.1	1977.2	1986.4	1972.7	2018.3	2032.0
55°	15543.8	11365.6	3054.9	2187.3	1876.8	1780.9	1790.0	1835.7	1890.5	1963.5	1977.2
57.5°	17329.2	12119.0	3233.0	2310.6	1739.8	1593.6	1616.5	1703.2	1808.3	1867.6	1899.6
60°	18658.0	12027.7	3493.2	2342.5	1575.4	1424.7	1465.8	1593.6	1685.0	1735.2	1767.2
62.5°	19091.8	11456.9	3557.2	2109.6	1360.8	1264.9	1365.3	1497.8	1538.9	1593.6	1616.5
65°	18735.6	10648.7	3091.4	1712.4	1196.4	1146.1	1292.3	1392.7	1447.5	1474.9	1479.5
66°	18315.5	10164.6	2840.3	1557.1	1137.0	1109.6	1264.9	1347.1	1401.9	1397.3	1401.9
67.5°	17393.1	9150.9	2433.9	1337.9	1050.3	1054.8	1219.2	1274.0	1292.3	1278.6	1278.6
70°	14256.1	6443.1	1744.3	1013.7	922.4	986.3	1095.9	1109.6	1150.7	1132.4	1132.4
72.5°	8790.2	3164.5	1169.0	776.3	821.9	922.4	917.8	963.5	1059.4	1086.8	1105.1
75°	4319.7	1283.1	771.7	657.6	735.2	771.7	762.6	876.7	1013.7	1132.4	1173.5
77.5°	1639.3	639.3	538.8	575.4	593.6	579.9	607.3	794.5	1013.7	1228.3	1269.4
80°	506.9	442.9	424.7	474.9	447.5	424.7	456.6	657.6	858.5	931.5	931.5
82.5°	305.9	347.0	328.8	324.2	301.4	305.9	328.8	470.3	662.1	694.1	694.1
85°	214.6	228.3	187.2	178.1	173.5	169.0	169.0	274.0	392.7	388.1	401.8
87.5°	82.2	91.3	68.5	68.5	63.9	45.7	36.5	45.7	45.7	32.0	22.8
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)