

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: P1210537

Luminaire Tested: **ARCH3-150-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210537
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: ARCH3-150-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21726 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.7
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

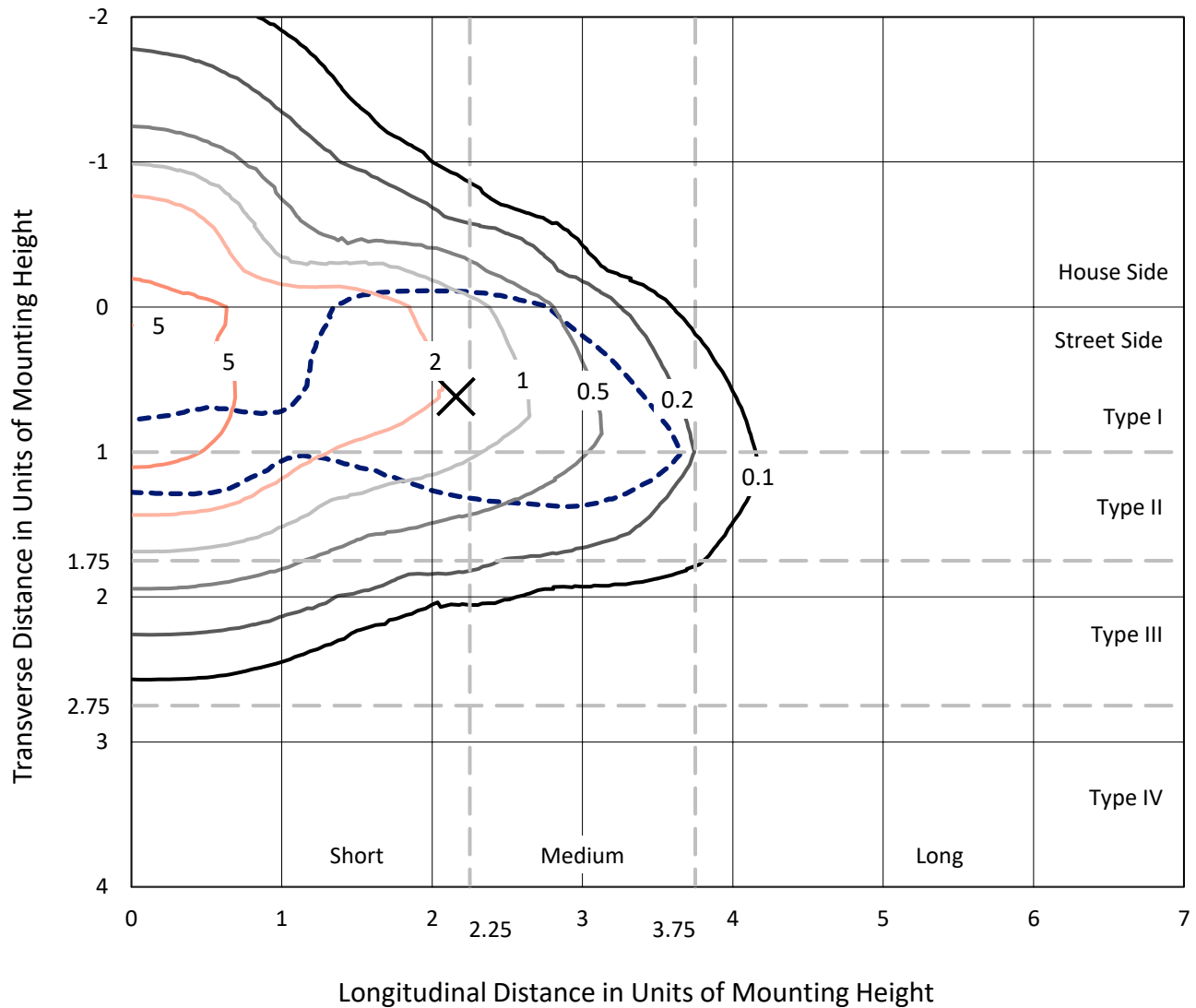


REPORT NUMBER: P1210537

CATALOG NUMBER: ARCH3-150-750-U-T2RE

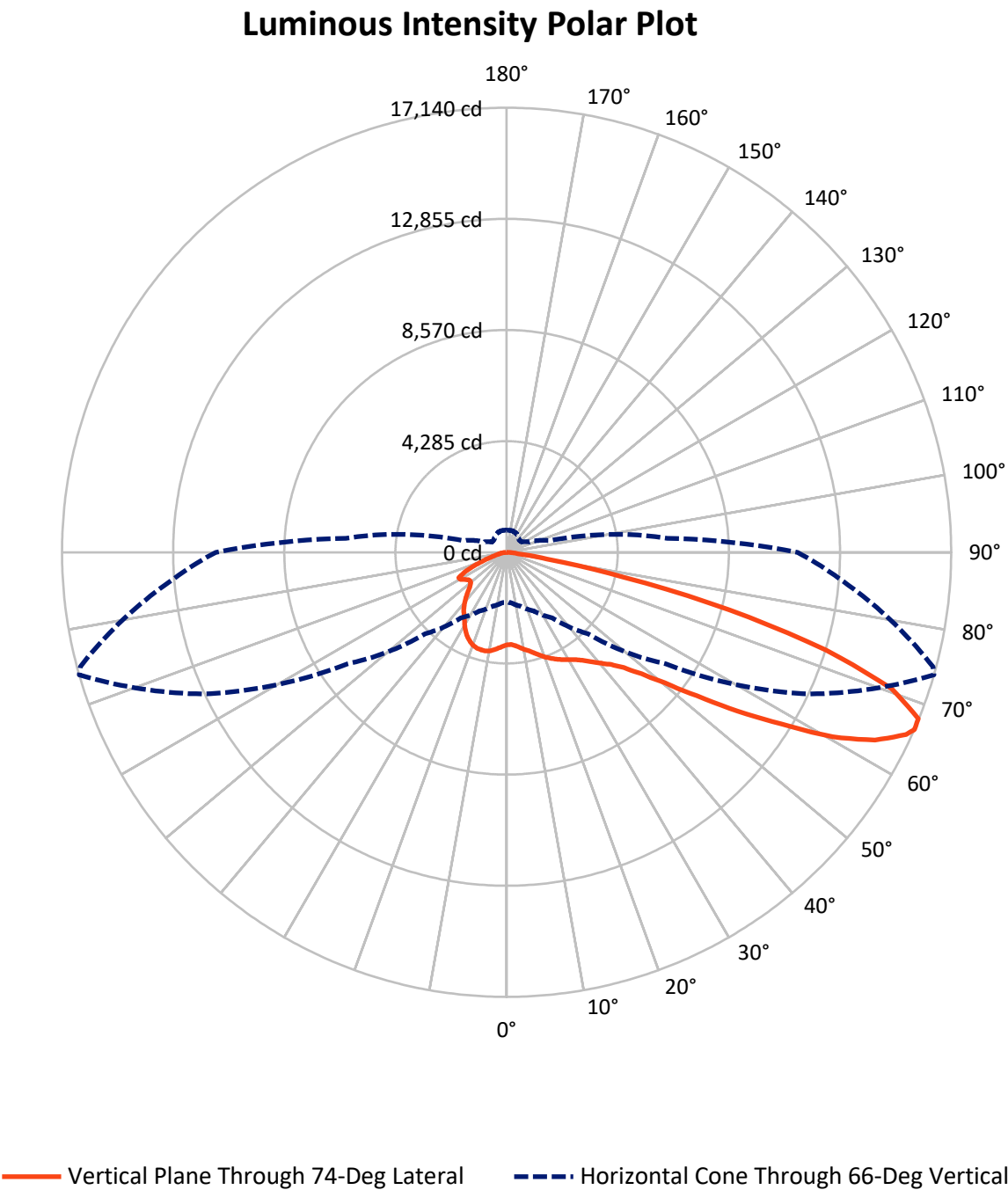
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type II - Short - N/A

REPORT NUMBER: P1210537
CATALOG NUMBER: ARCH3-150-750-U-T2RE



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5290.9	0.0	5290.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	16435.1	0.0	16435.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	21726.0	0.0	21726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.7	1.6
10°-20°	1044.8	4.8
20°-30°	1960.6	9.0
30°-40°	3015.8	13.9
40°-50°	4056.5	18.7
50°-60°	4797.3	22.1
60°-70°	4437.8	20.4
70°-80°	1866.9	8.6
80°-90°	206.6	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°	21726.0	100.0
0°-180°	21726.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210537

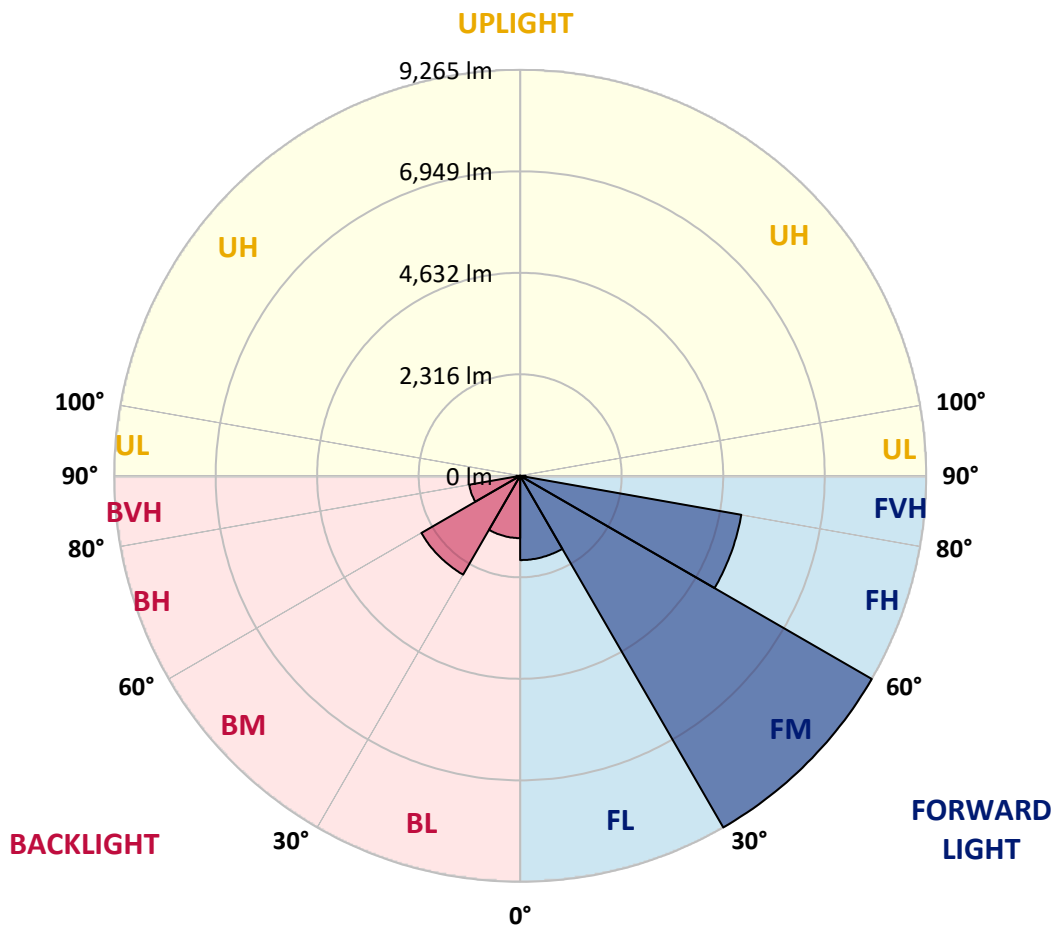
CATALOG NUMBER: ARCH3-150-750-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1923.0	8.9			
FM	(30°-60°)	9264.9	42.6			
FH	(60°-80°)	5123.6	23.6			G3/7500
FVH	(80°-90°)	123.6	0.6			G2/225
BL	(0°-30°)	1422.1	6.5	B3/2500		
BM	(30°-60°)	2604.7	12.0	B3/5000		
BH	(60°-80°)	1181.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	83.0	0.4			G1/100
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 Short



REPORT NUMBER: P1210537

CATALOG NUMBER: ARCH3-150-750-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3561.6	3561.6	3561.6	3561.6	3561.6	3561.6	3561.6	3561.6	3561.6	3561.6	3561.6
2.5°	3550.4	3544.8	3556.0	3572.8	3581.2	3567.2	3561.6	3558.8	3558.8	3550.4	3564.4
5°	3382.7	3379.9	3405.1	3435.8	3494.5	3536.5	3592.4	3625.9	3614.7	3598.0	3609.1
7.5°	3164.6	3159.0	3189.8	3248.5	3329.6	3421.8	3558.8	3665.1	3707.0	3701.4	3698.6
10°	3248.5	3242.9	3240.1	3223.3	3251.3	3340.8	3483.3	3670.6	3813.2	3816.0	3818.8
12.5°	3539.2	3553.2	3539.2	3486.1	3424.6	3391.1	3474.9	3684.6	3902.7	3919.5	3989.3
15°	3936.2	3922.2	3894.3	3832.8	3737.7	3637.1	3575.6	3748.9	4031.3	4045.3	4199.0
17.5°	4285.7	4296.9	4280.1	4221.4	4109.6	3978.2	3790.9	3860.7	4168.3	4207.4	4422.7
20°	4665.9	4710.6	4688.2	4615.6	4523.3	4327.6	4092.8	4022.9	4319.2	4347.2	4654.7
22.5°	5104.8	5152.3	5110.4	5040.5	4965.0	4724.6	4422.7	4221.4	4445.0	4503.7	4878.3
25°	5630.4	5675.1	5636.0	5526.9	5431.9	5138.3	4777.7	4445.0	4568.0	4632.3	5060.1
27.5°	6046.9	6080.5	6116.8	6052.5	5907.1	5602.4	5146.7	4677.1	4691.0	4758.1	5227.8
30°	6418.7	6502.6	6533.4	6541.7	6418.7	6077.7	5524.1	4917.5	4797.3	4867.2	5395.5
32.5°	6927.5	7053.3	7003.0	7053.3	6980.7	6525.0	5915.5	5166.3	4934.3	4998.6	5554.9
35°	7671.2	7771.8	7640.4	7601.3	7483.9	6977.9	6292.9	5423.5	5116.0	5185.9	5705.9
37.5°	8470.7	8585.3	8395.2	8238.7	8015.0	7425.2	6617.2	5761.8	5367.6	5423.5	5845.6
40°	9169.6	9264.7	9099.7	8892.9	8518.2	7819.3	6896.8	5999.4	5619.2	5689.1	6007.8
42.5°	9815.4	9876.9	9692.4	9493.9	8993.5	8174.4	7198.7	6251.0	5912.7	5979.8	6139.2
45°	10469.6	10517.1	10259.9	9977.6	9390.5	8498.7	7531.4	6603.2	6343.3	6432.7	6351.6
47.5°	10587.0	10601.0	10556.2	10366.1	9703.6	8809.0	7942.3	7075.7	7000.2	7098.1	6717.9
50°	9773.5	9899.3	10176.0	10363.3	9829.4	9069.0	8353.3	7752.2	7906.0	8031.8	7478.3
52.5°	8193.9	8314.2	8954.4	9664.4	9527.5	9127.7	8795.0	8610.5	9183.6	9334.6	8512.6
55°	6527.8	6634.0	7310.5	8333.7	8551.8	8859.3	9267.5	9706.4	10813.4	10914.1	9647.7
57.5°	5376.0	5434.7	5918.3	6902.4	7251.8	8001.1	9521.9	11009.1	12471.2	12625.0	10634.5
60°	4408.7	4473.0	4833.6	5644.3	6108.4	6773.8	9320.6	12295.1	14450.5	14450.5	11900.9
62.5°	3318.4	3374.3	3709.8	4344.4	5124.4	5733.8	8677.6	13147.8	15943.4	15876.3	12817.9
65°	2278.4	2323.2	2566.4	2988.5	3690.2	4886.7	7799.8	13159.0	16933.0	16843.6	13209.3
66°	1912.2	1951.3	2158.2	2499.3	3089.2	4433.8	7489.5	12921.3	17139.9	17014.1	13044.3
67.5°	1509.6	1537.6	1674.6	1875.9	2264.4	3589.6	7000.2	12247.6	17120.3	17044.9	12625.0
70°	1079.1	1098.7	1199.3	1241.3	1339.1	2077.1	5560.5	10726.8	15747.7	15770.1	10975.6
72.5°	835.9	866.6	928.1	936.5	914.2	1104.3	3374.3	8948.8	12882.2	12873.8	8146.4
75°	673.7	690.5	721.3	738.0	732.5	712.9	1428.6	6675.9	8867.7	8971.1	4562.4
77.5°	531.2	528.4	556.3	578.7	595.5	559.1	654.2	3913.9	4649.1	4517.7	1713.7
80°	391.4	391.4	430.5	438.9	464.1	469.7	436.1	1509.6	1596.3	1450.9	444.5
82.5°	257.2	257.2	299.1	304.7	329.9	366.2	315.9	452.9	441.7	419.3	201.3
85°	139.8	134.2	148.2	167.7	181.7	215.3	190.1	226.4	232.0	229.2	134.2
87.5°	28.0	25.2	39.1	44.7	50.3	67.1	61.5	92.3	128.6	125.8	58.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210537

CATALOG NUMBER: ARCH3-150-750-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3561.6	3561.6	3561.6	3561.6	3561.6	3561.6	3561.6	3561.6	3561.6	3561.6	3561.6
2.5°	3584.0	3581.2	3611.9	3648.3	3690.2	3715.4	3726.6	3746.1	3732.1	3737.7	3754.5
5°	3637.1	3645.5	3690.2	3737.7	3757.3	3743.3	3712.6	3701.4	3676.2	3670.6	3665.1
7.5°	3715.4	3729.4	3774.1	3785.3	3726.6	3628.7	3558.8	3519.7	3477.7	3466.6	3461.0
10°	3844.0	3852.4	3863.5	3748.9	3603.5	3472.2	3385.5	3349.1	3321.2	3298.8	3304.4
12.5°	4006.1	4000.5	3913.9	3676.2	3469.4	3335.2	3276.5	3254.1	3234.5	3220.5	3217.8
15°	4210.2	4171.1	3922.2	3575.6	3343.6	3231.7	3189.8	3181.4	3159.0	3159.0	3156.2
17.5°	4417.1	4316.4	3916.7	3469.4	3223.3	3161.8	3136.7	3131.1	3125.5	3122.7	3131.1
20°	4623.9	4445.0	3871.9	3338.0	3139.5	3103.1	3097.5	3100.3	3094.7	3103.1	3097.5
22.5°	4805.7	4528.9	3788.1	3198.2	3080.8	3078.0	3064.0	3069.6	3089.2	3092.0	3100.3
25°	4945.4	4559.6	3665.1	3069.6	3038.8	3033.2	3050.0	3072.4	3089.2	3092.0	3105.9
27.5°	5060.1	4542.9	3511.3	2968.9	2966.1	2996.9	3047.2	3055.6	3058.4	3058.4	3047.2
30°	5146.7	4506.5	3315.6	2857.1	2871.1	2946.6	2994.1	2994.1	2971.7	2966.1	2982.9
32.5°	5166.3	4459.0	3103.1	2742.5	2764.9	2854.3	2913.0	2893.5	2868.3	2868.3	2879.5
35°	5183.1	4394.7	2932.6	2585.9	2619.5	2725.7	2781.6	2742.5	2714.5	2706.2	2703.4
37.5°	5177.5	4369.5	2778.8	2387.5	2432.2	2535.6	2572.0	2535.6	2493.7	2474.1	2499.3
40°	5183.1	4352.8	2585.9	2169.4	2214.1	2275.6	2323.2	2295.2	2256.1	2205.7	2230.9
42.5°	5216.6	4375.1	2373.5	1956.9	1956.9	1990.5	2071.6	2052.0	1956.9	1937.4	1959.7
45°	5395.5	4495.3	2161.0	1744.5	1713.7	1736.1	1819.9	1736.1	1677.4	1677.4	1696.9
47.5°	5828.9	4719.0	1973.7	1557.2	1484.5	1529.2	1551.6	1473.3	1428.6	1417.4	1436.9
50°	6712.3	5166.3	1861.9	1403.4	1313.9	1347.5	1333.5	1330.7	1286.0	1291.6	1302.8
52.5°	8054.2	6038.5	1828.3	1327.9	1216.1	1224.5	1210.5	1216.1	1207.7	1235.7	1244.0
55°	9516.3	6958.3	1870.3	1339.1	1149.0	1090.3	1095.9	1123.8	1157.4	1202.1	1210.5
57.5°	10609.4	7419.6	1979.3	1414.6	1065.1	975.7	989.6	1042.8	1107.1	1143.4	1163.0
60°	11422.9	7363.7	2138.6	1434.2	964.5	872.2	897.4	975.7	1031.6	1062.3	1081.9
62.5°	11688.5	7014.2	2177.8	1291.6	833.1	774.4	835.9	917.0	942.1	975.7	989.6
65°	11470.4	6519.4	1892.6	1048.4	732.5	701.7	791.2	852.7	886.2	903.0	905.8
66°	11213.2	6223.0	1738.9	953.3	696.1	679.3	774.4	824.7	858.3	855.5	858.3
67.5°	10648.5	5602.4	1490.1	819.1	643.0	645.8	746.4	780.0	791.2	782.8	782.8
70°	8727.9	3944.6	1067.9	620.6	564.7	603.9	670.9	679.3	704.5	693.3	693.3
72.5°	5381.6	1937.4	715.7	475.3	503.2	564.7	561.9	589.9	648.6	665.4	676.5
75°	2644.7	785.6	472.5	402.6	450.1	472.5	466.9	536.8	620.6	693.3	718.5
77.5°	1003.6	391.4	329.9	352.2	363.4	355.0	371.8	486.4	620.6	752.0	777.2
80°	310.3	271.2	260.0	290.7	274.0	260.0	279.6	402.6	525.6	570.3	570.3
82.5°	187.3	212.5	201.3	198.5	184.5	187.3	201.3	287.9	405.4	424.9	424.9
85°	131.4	139.8	114.6	109.0	106.2	103.4	103.4	167.7	240.4	237.6	246.0
87.5°	50.3	55.9	41.9	41.9	39.1	28.0	22.4	28.0	28.0	19.6	14.0
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)