

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: P1210525

Luminaire Tested: **ARCH3-150-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210525
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: ARCH3-150-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20691 lumens
Efficiency: N/A
Efficacy: 137.3 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

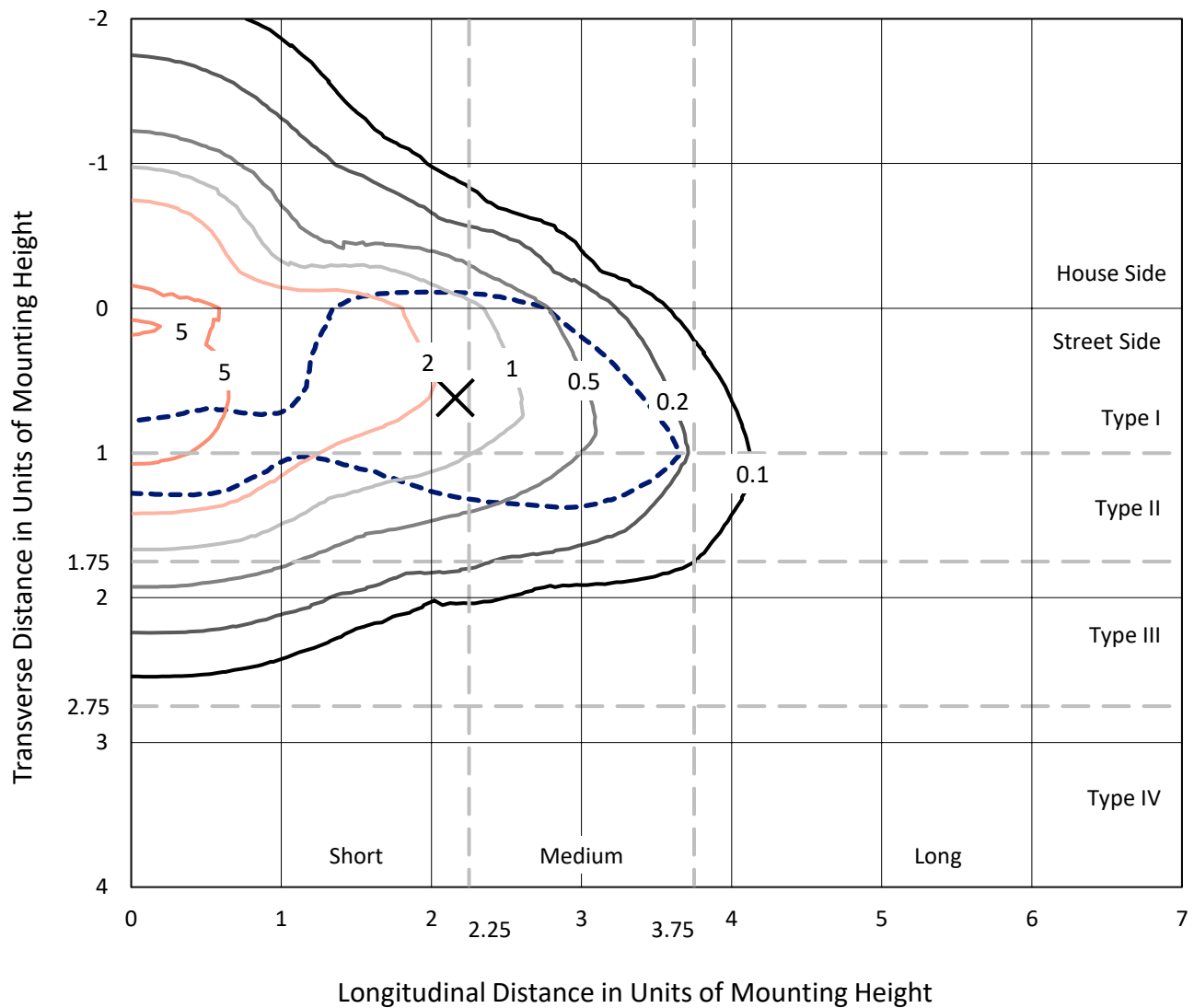


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

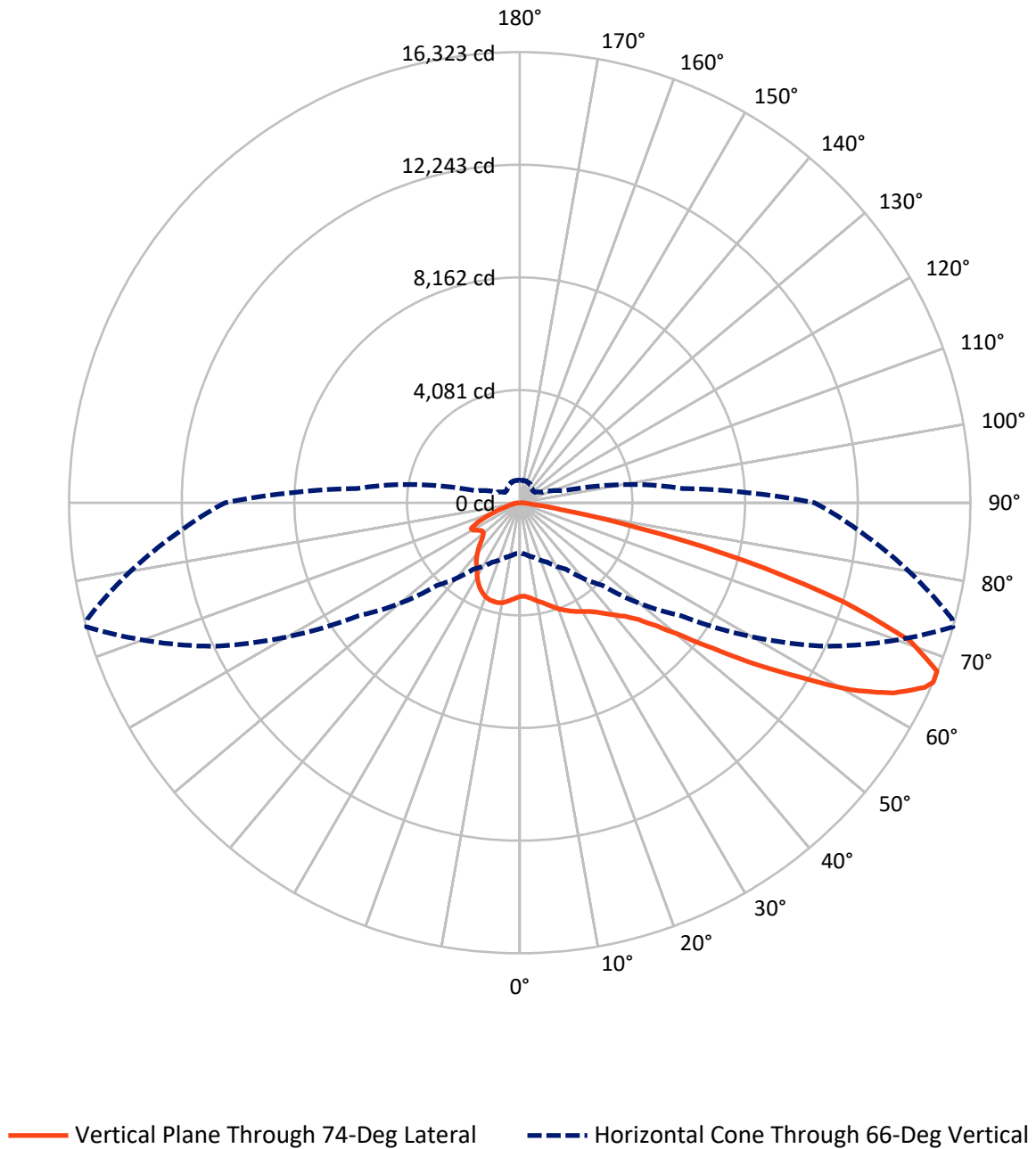


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5038.8	0.0	5038.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	15652.2	0.0	15652.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	20691.0	0.0	20691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.6	1.6
10°-20°	995.0	4.8
20°-30°	1867.2	9.0
30°-40°	2872.1	13.9
40°-50°	3863.3	18.7
50°-60°	4568.8	22.1
60°-70°	4226.4	20.4
70°-80°	1778.0	8.6
80°-90°	196.7	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°	20691.0	100.0
0°-180°	20691.0	100.0

Coefficient of Utilization



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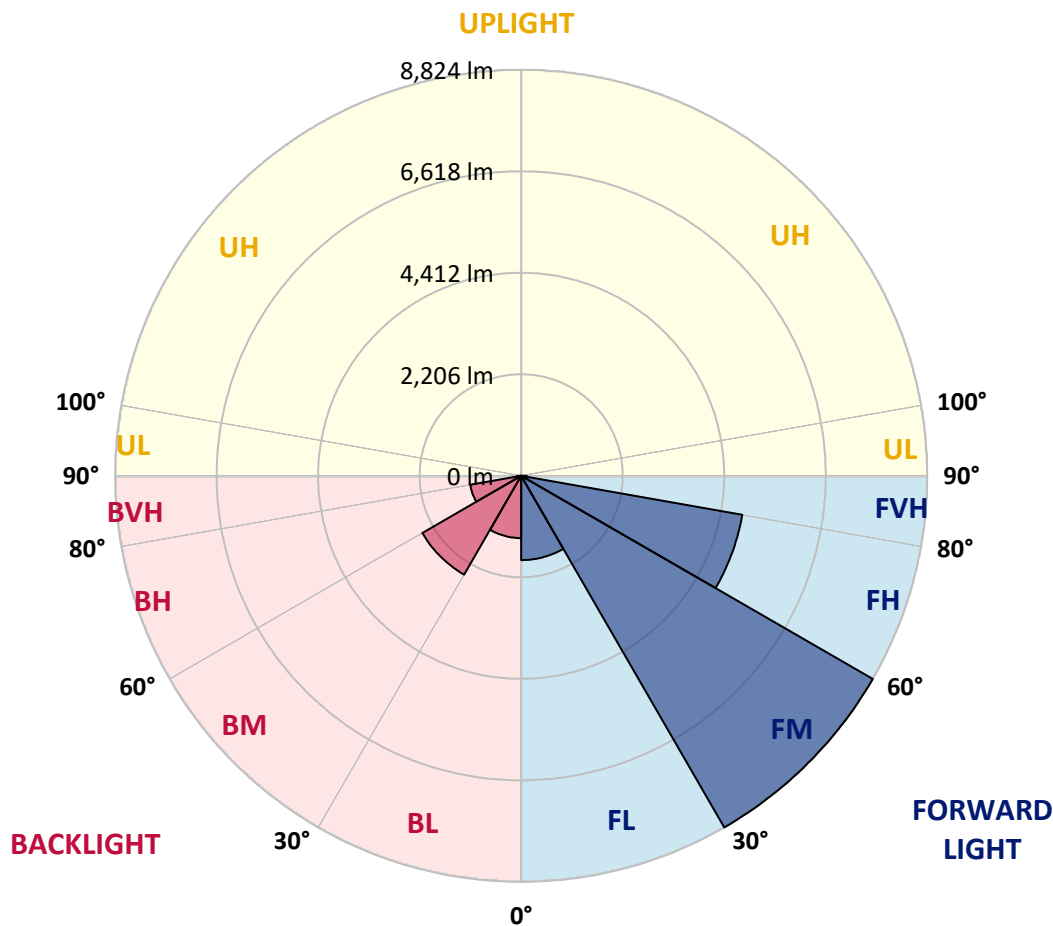
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1831.4	8.9			
FM	(30°-60°)	8823.6	42.6			
FH	(60°-80°)	4879.5	23.6			G2/5000
FVH	(80°-90°)	117.7	0.6			G2/225
BL	(0°-30°)	1354.3	6.5	B3/2500		
BM	(30°-60°)	2480.6	12.0	B2/2500		
BH	(60°-80°)	1124.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	79.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3391.9	3391.9	3391.9	3391.9	3391.9	3391.9	3391.9	3391.9	3391.9	3391.9	3391.9
2.5°	3381.3	3376.0	3386.6	3402.6	3410.6	3397.3	3391.9	3389.3	3389.3	3381.3	3394.6
5°	3221.5	3218.9	3242.8	3272.1	3328.0	3368.0	3421.2	3453.2	3442.5	3426.6	3437.2
7.5°	3013.9	3008.6	3037.8	3093.8	3171.0	3258.8	3389.3	3490.5	3530.4	3525.1	3522.4
10°	3093.8	3088.4	3085.8	3069.8	3096.4	3181.6	3317.4	3495.8	3631.6	3634.2	3636.9
12.5°	3370.6	3384.0	3370.6	3320.1	3261.5	3229.5	3309.4	3509.1	3716.8	3732.7	3799.3
15°	3748.7	3735.4	3708.8	3650.2	3559.7	3463.8	3405.3	3570.3	3839.2	3852.5	3999.0
17.5°	4081.5	4092.2	4076.2	4020.3	3913.8	3788.6	3610.3	3676.8	3969.7	4007.0	4212.0
20°	4443.6	4486.2	4464.9	4395.7	4307.8	4121.5	3897.8	3831.2	4113.5	4140.1	4433.0
22.5°	4861.6	4906.9	4866.9	4800.4	4728.5	4499.5	4212.0	4020.3	4233.3	4289.2	4645.9
25°	5362.1	5404.7	5367.5	5263.6	5173.1	4893.6	4550.1	4233.3	4350.4	4411.7	4819.0
27.5°	5758.8	5790.8	5825.4	5764.2	5625.7	5335.5	4901.5	4454.3	4467.6	4531.5	4978.8
30°	6113.0	6192.8	6222.1	6230.1	6113.0	5788.1	5261.0	4683.2	4568.7	4635.3	5138.5
32.5°	6597.5	6717.3	6669.4	6717.3	6648.1	6214.1	5633.7	4920.2	4699.2	4760.4	5290.3
35°	7305.7	7401.6	7276.4	7239.2	7127.3	6645.4	5993.1	5165.1	4872.3	4938.8	5434.0
37.5°	8067.2	8176.3	7995.3	7846.2	7633.2	7071.4	6302.0	5487.3	5111.9	5165.1	5567.2
40°	8732.8	8823.3	8666.2	8469.2	8112.4	7446.8	6568.2	5713.6	5351.5	5418.1	5721.6
42.5°	9347.8	9406.4	9230.7	9041.6	8565.1	7785.0	6855.8	5953.2	5631.1	5694.9	5846.7
45°	9970.8	10016.1	9771.1	9502.2	8943.1	8093.8	7172.6	6288.7	6041.1	6126.3	6049.1
47.5°	10082.6	10096.0	10053.4	9872.3	9241.3	8389.3	7564.0	6738.6	6666.7	6759.9	6397.8
50°	9307.9	9427.7	9691.3	9869.6	9361.1	8636.9	7955.4	7382.9	7529.4	7649.2	7122.0
52.5°	7803.6	7918.1	8527.8	9204.0	9073.6	8692.9	8376.0	8200.3	8746.1	8889.9	8107.1
55°	6216.8	6318.0	6962.3	7936.7	8144.4	8437.3	8826.0	9244.0	10298.3	10394.1	9188.1
57.5°	5119.9	5175.8	5636.4	6573.6	6906.4	7619.9	9068.3	10484.7	11877.1	12023.6	10127.9
60°	4198.7	4259.9	4603.4	5375.5	5817.4	6451.1	8876.6	11709.4	13762.1	13762.1	11334.0
62.5°	3160.3	3213.6	3533.1	4137.4	4880.2	5460.7	8264.2	12521.4	15183.9	15120.0	12207.3
65°	2169.9	2212.5	2444.1	2846.1	3514.4	4653.9	7428.2	12532.1	16126.4	16041.2	12580.0
66°	1821.1	1858.4	2055.4	2380.2	2942.0	4222.6	7132.7	12305.8	16323.4	16203.6	12422.9
67.5°	1437.7	1464.3	1594.8	1786.5	2156.6	3418.6	6666.7	11664.1	16304.8	16232.9	12023.6
70°	1027.7	1046.3	1142.2	1182.1	1275.3	1978.2	5295.6	10215.8	14997.5	15018.8	10452.7
72.5°	796.1	825.4	883.9	891.9	870.6	1051.7	3213.6	8522.5	12268.5	12260.5	7758.3
75°	641.6	657.6	686.9	702.9	697.6	678.9	1360.5	6357.9	8445.2	8543.8	4345.1
77.5°	505.9	503.2	529.8	551.1	567.1	532.5	623.0	3727.4	4427.6	4302.5	1632.1
80°	372.7	372.7	410.0	418.0	442.0	447.3	415.3	1437.7	1520.3	1381.8	423.3
82.5°	244.9	244.9	284.9	290.2	314.2	348.8	300.9	431.3	420.7	399.4	191.7
85°	133.1	127.8	141.1	159.7	173.1	205.0	181.0	215.7	221.0	218.3	127.8
87.5°	26.6	24.0	37.3	42.6	47.9	63.9	58.6	87.9	122.5	119.8	55.9
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°	3391.9	3391.9	3391.9	3391.9	3391.9	3391.9	3391.9	3391.9	3391.9	3391.9	3391.9
2.5°	3413.2	3410.6	3439.9	3474.5	3514.4	3538.4	3549.0	3567.7	3554.4	3559.7	3575.7
5°	3463.8	3471.8	3514.4	3559.7	3578.3	3565.0	3535.7	3525.1	3501.1	3495.8	3490.5
7.5°	3538.4	3551.7	3594.3	3604.9	3549.0	3455.8	3389.3	3352.0	3312.1	3301.4	3296.1
10°	3660.8	3668.8	3679.5	3570.3	3431.9	3306.7	3224.2	3189.6	3163.0	3141.7	3147.0
12.5°	3815.3	3809.9	3727.4	3501.1	3304.1	3176.3	3120.4	3099.1	3080.4	3067.1	3064.5
15°	4009.6	3972.4	3735.4	3405.3	3184.3	3077.8	3037.8	3029.9	3008.6	3008.6	3005.9
17.5°	4206.6	4110.8	3730.1	3304.1	3069.8	3011.2	2987.3	2981.9	2976.6	2973.9	2981.9
20°	4403.7	4233.3	3687.5	3178.9	2989.9	2955.3	2950.0	2952.6	2947.3	2955.3	2950.0
22.5°	4576.7	4313.1	3607.6	3045.8	2934.0	2931.3	2918.0	2923.4	2942.0	2944.7	2952.6
25°	4709.8	4342.4	3490.5	2923.4	2894.1	2888.7	2904.7	2926.0	2942.0	2944.7	2958.0
27.5°	4819.0	4326.5	3344.0	2827.5	2824.8	2854.1	2902.1	2910.0	2912.7	2912.7	2902.1
30°	4901.5	4291.8	3157.6	2721.0	2734.3	2806.2	2851.5	2851.5	2830.2	2824.8	2840.8
32.5°	4920.2	4246.6	2955.3	2611.8	2633.1	2718.3	2774.3	2755.6	2731.7	2731.7	2742.3
35°	4936.2	4185.3	2792.9	2462.8	2494.7	2595.9	2649.1	2611.8	2585.2	2577.2	2574.6
37.5°	4930.8	4161.4	2646.5	2273.7	2316.3	2414.8	2449.4	2414.8	2374.9	2356.3	2380.2
40°	4936.2	4145.4	2462.8	2066.0	2108.6	2167.2	2212.5	2185.9	2148.6	2100.7	2124.6
42.5°	4968.1	4166.7	2260.4	1863.7	1863.7	1895.7	1972.9	1954.2	1863.7	1845.1	1866.4
45°	5138.5	4281.2	2058.1	1661.4	1632.1	1653.4	1733.2	1653.4	1597.5	1597.5	1616.1
47.5°	5551.2	4494.2	1879.7	1483.0	1413.8	1456.4	1477.7	1403.1	1360.5	1349.9	1368.5
50°	6392.5	4920.2	1773.2	1336.5	1251.3	1283.3	1270.0	1267.3	1224.7	1230.0	1240.7
52.5°	7670.5	5750.9	1741.2	1264.7	1158.2	1166.1	1152.8	1158.2	1150.2	1176.8	1184.8
55°	9062.9	6626.8	1781.2	1275.3	1094.3	1038.3	1043.7	1070.3	1102.2	1144.8	1152.8
57.5°	10103.9	7066.1	1885.0	1347.2	1014.4	929.2	942.5	993.1	1054.3	1088.9	1107.6
60°	10878.7	7012.9	2036.8	1365.8	918.5	830.7	854.6	929.2	982.4	1011.7	1030.4
62.5°	11131.6	6680.1	2074.0	1230.0	793.4	737.5	796.1	873.3	897.2	929.2	942.5
65°	10924.0	6208.8	1802.5	998.4	697.6	668.3	753.5	812.0	844.0	860.0	862.6
66°	10679.0	5926.6	1656.0	907.9	662.9	647.0	737.5	785.4	817.4	814.7	817.4
67.5°	10141.2	5335.5	1419.1	780.1	612.4	615.0	710.9	742.8	753.5	745.5	745.5
70°	8312.1	3756.7	1017.1	591.1	537.8	575.1	639.0	647.0	670.9	660.3	660.3
72.5°	5125.2	1845.1	681.6	452.6	479.2	537.8	535.1	561.8	617.7	633.7	644.3
75°	2518.7	748.1	450.0	383.4	428.7	450.0	444.6	511.2	591.1	660.3	684.2
77.5°	955.8	372.7	314.2	335.5	346.1	338.1	354.1	463.3	591.1	716.2	740.2
80°	295.5	258.3	247.6	276.9	260.9	247.6	266.2	383.4	500.5	543.1	543.1
82.5°	178.4	202.3	191.7	189.0	175.7	178.4	191.7	274.2	386.1	404.7	404.7
85°	125.1	133.1	109.2	103.8	101.2	98.5	98.5	159.7	229.0	226.3	234.3
87.5°	47.9	53.2	39.9	39.9	37.3	26.6	21.3	26.6	26.6	18.6	13.3
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)