

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: P1211147

Luminaire Tested: **ARCH4-180-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-180-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28980 lumens
Efficiency: N/A
Efficacy: 161.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 180
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

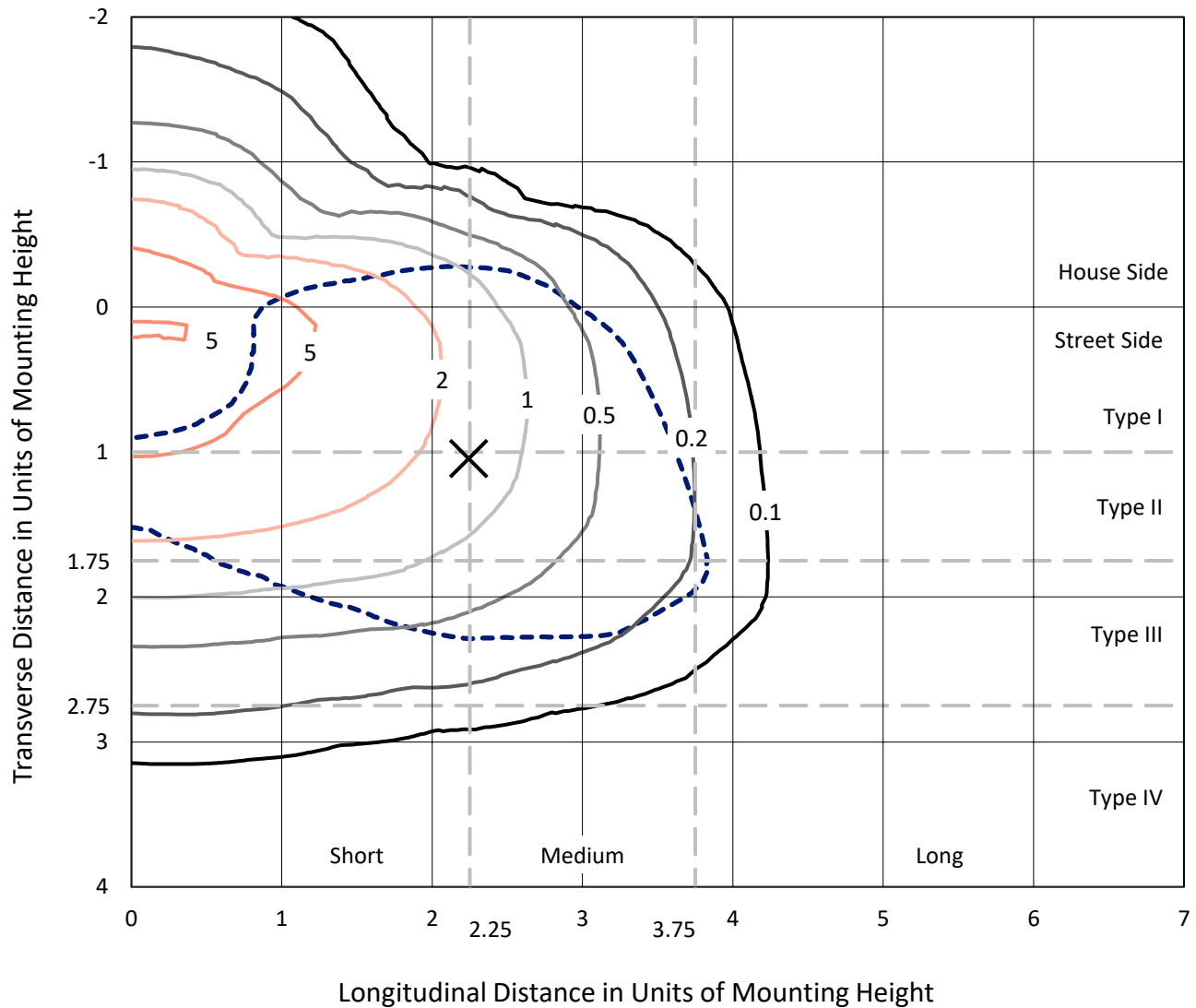


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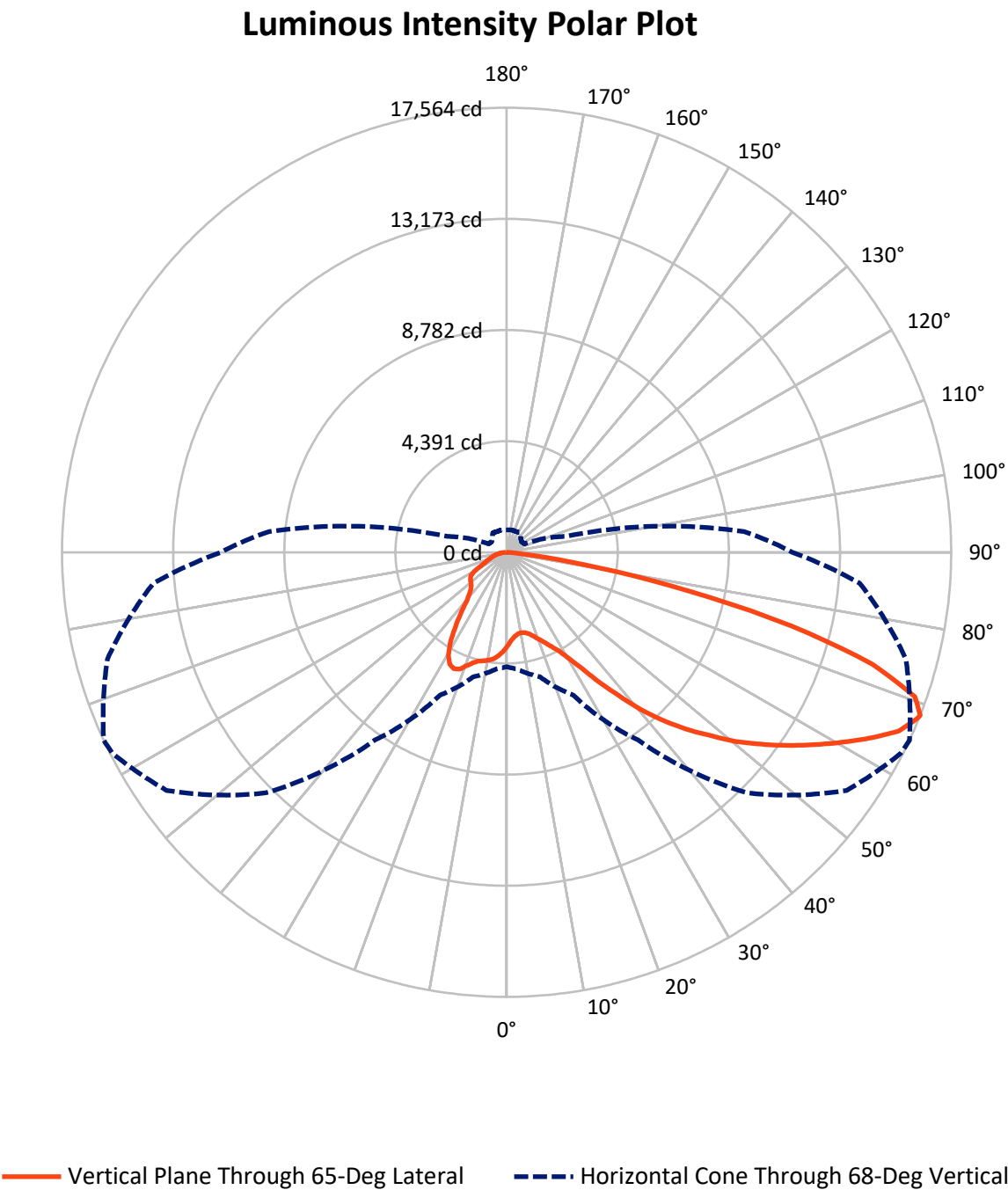
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7105.0	0.0	7105.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	21875.0	0.0	21875.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	28980.0	0.0	28980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.9	1.2
10°-20°	1152.4	4.0
20°-30°	2085.7	7.2
30°-40°	3281.0	11.3
40°-50°	4886.7	16.9
50°-60°	6410.4	22.1
60°-70°	7010.2	24.2
70°-80°	3468.8	12.0
80°-90°	330.9	1.1
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°	28980.0	100.0
0°-180°	28980.0	100.0

Coefficient of Utilization



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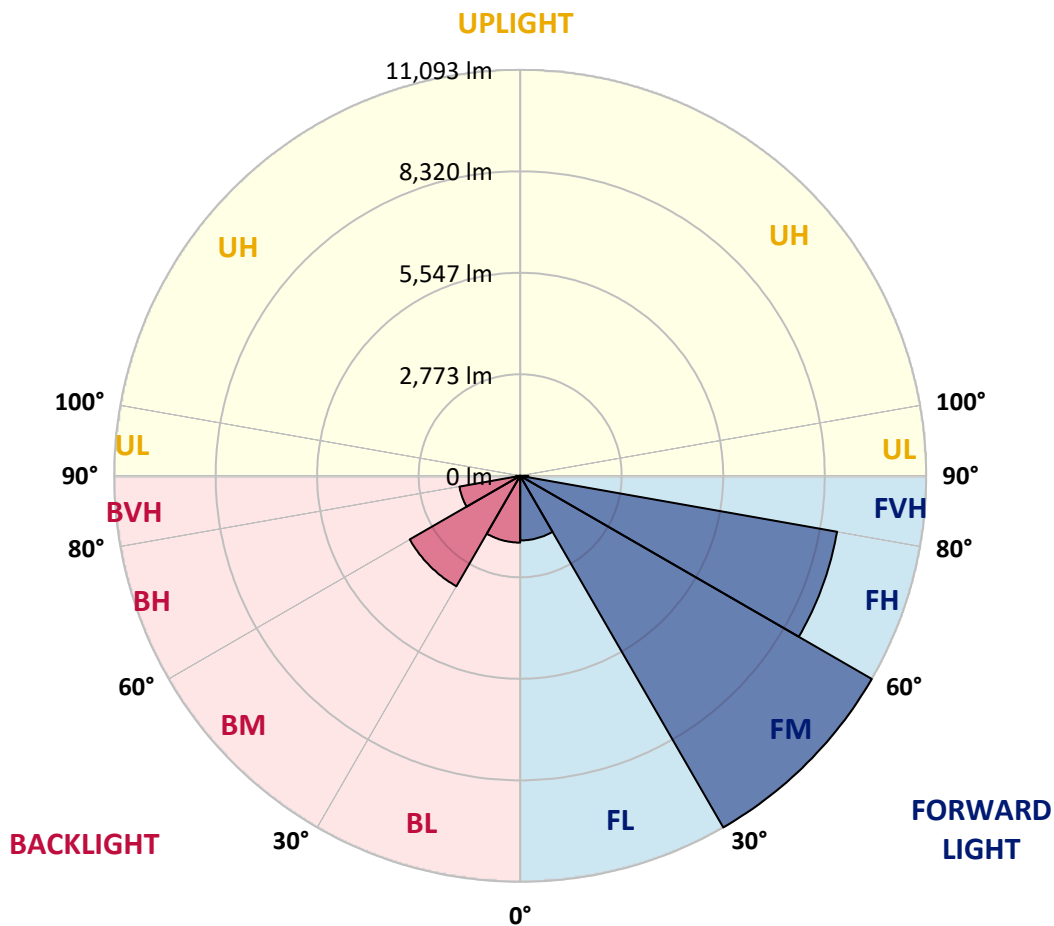
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1766.7	6.1			
FM	(30°-60°)	11093.1	38.3			
FH	(60°-80°)	8792.6	30.3			G4/12000
FVH	(80°-90°)	222.5	0.8			G2/225
BL	(0°-30°)	1825.3	6.3	B3/2500		
BM	(30°-60°)	3485.0	12.0	B3/5000		
BH	(60°-80°)	1686.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	108.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3703.3	3703.3	3703.3	3703.3	3703.3	3703.3	3703.3	3703.3	3703.3	3703.3	3703.3
2.5°	3232.4	3225.0	3243.6	3262.3	3303.4	3352.0	3419.3	3475.3	3482.8	3587.4	3669.7
5°	3041.9	3030.6	3049.3	3071.8	3090.4	3150.2	3221.2	3303.4	3337.1	3490.3	3665.9
7.5°	3060.5	3056.8	3064.3	3056.8	3056.8	3083.0	3131.5	3213.8	3251.1	3434.2	3684.6
10°	3168.9	3176.4	3180.1	3157.7	3135.3	3124.1	3139.0	3195.1	3221.2	3438.0	3766.8
12.5°	3348.3	3359.5	3363.2	3322.1	3292.2	3243.6	3217.5	3239.9	3258.6	3475.3	3882.7
15°	3591.2	3598.7	3572.5	3546.3	3471.6	3411.8	3348.3	3329.6	3337.1	3553.8	4013.5
17.5°	3875.2	3864.0	3864.0	3800.5	3703.3	3609.9	3505.2	3490.3	3490.3	3680.9	4200.3
20°	4185.4	4196.6	4162.9	4077.0	3979.8	3834.1	3729.5	3662.2	3669.7	3826.6	4428.3
22.5°	4633.8	4652.5	4562.8	4439.5	4290.0	4121.8	3972.4	3864.0	3867.7	4017.2	4663.7
25°	5115.8	5123.3	5067.3	4902.8	4701.1	4461.9	4263.8	4125.6	4121.8	4230.2	4966.4
27.5°	5609.1	5642.8	5530.6	5373.7	5186.9	4887.9	4626.3	4439.5	4409.6	4555.3	5343.8
30°	6117.3	6158.5	6050.1	5896.9	5665.2	5411.1	5100.9	4884.2	4865.5	5059.8	5848.3
32.5°	6629.3	6640.5	6554.6	6427.5	6218.2	5979.1	5728.7	5489.5	5470.9	5788.5	6502.2
35°	7047.8	7081.5	7021.7	6991.8	6838.6	6618.1	6375.2	6236.9	6285.5	6692.8	7350.5
37.5°	7552.3	7586.0	7518.7	7511.2	7462.6	7272.1	7103.9	7115.1	7163.7	7716.7	8243.7
40°	8281.0	8318.4	8146.5	8071.8	8071.8	7884.9	7828.9	8094.2	8157.7	8725.7	9174.1
42.5°	8897.6	8957.4	8856.5	8807.9	8662.2	8531.4	8598.7	8972.4	9080.7	9689.8	9985.1
45°	9196.6	9241.4	9361.0	9503.0	9361.0	9133.0	9387.2	9809.4	9962.6	10579.2	10796.0
47.5°	9357.3	9398.4	9536.6	9917.8	10015.0	9824.4	10183.1	10710.0	10814.7	11461.1	11569.5
50°	9379.7	9510.5	9689.8	10071.0	10515.7	10541.9	10982.8	11625.6	11748.9	12328.1	12249.6
52.5°	9196.6	9248.9	9618.8	10261.6	10754.9	11203.3	11853.5	12503.7	12593.4	13142.8	12851.3
55°	8897.6	8972.4	9342.3	10216.8	10986.6	11831.1	12739.2	13367.0	13467.9	13935.0	13408.1
57.5°	8628.6	8665.9	9062.0	10086.0	11218.2	12458.9	13527.7	14267.6	14334.8	14630.1	13819.1
60°	8329.6	8370.7	8766.8	9805.7	11390.1	12933.5	14349.8	15175.6	15235.4	15362.5	14297.5
62.5°	7556.1	7664.4	8161.4	9342.3	11345.3	13475.3	15228.0	16072.5	16147.2	16009.0	14674.9
65°	6136.0	6289.2	6898.4	8292.2	10926.8	13826.6	15945.5	16898.4	17025.4	16494.8	14775.8
67.5°	4764.6	4872.9	5362.5	6580.7	9458.2	13651.0	16408.8	17466.4	17503.8	16416.3	14215.3
68°	4517.9	4626.3	5093.4	6222.0	9050.8	13441.7	16397.6	17481.3	17563.5	16330.4	13998.5
70°	3456.7	3580.0	4024.7	4929.0	7294.5	12111.4	15713.8	17122.6	17111.4	15291.5	12653.2
72.5°	2159.9	2230.9	2537.4	3109.1	4824.4	9215.3	13337.1	15100.9	15130.8	12466.4	9704.8
75°	1371.5	1371.5	1356.5	1506.0	2473.8	5250.4	9914.1	11625.6	11648.0	8729.5	6117.3
77.5°	1192.1	1158.4	997.8	844.5	986.5	2040.4	5867.0	7507.5	7384.2	4701.1	2903.6
80°	1005.2	949.2	818.4	680.1	635.3	639.0	2253.4	3811.7	3647.2	1692.8	964.1
82.5°	725.0	676.4	616.6	534.4	489.5	381.2	470.9	1102.4	1076.2	489.5	313.9
85°	392.4	355.0	347.5	351.3	295.2	235.4	198.1	242.9	242.9	213.0	179.4
87.5°	138.3	100.9	119.6	134.5	115.8	97.2	78.5	93.4	97.2	93.4	85.9
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°	3703.3	3703.3	3703.3	3703.3	3703.3	3703.3	3703.3	3703.3	3703.3	3703.3	3703.3
2.5°	3718.2	3755.6	3845.3	3923.8	3979.8	4028.4	4054.6	4065.8	4091.9	4095.7	4088.2
5°	3748.1	3845.3	3979.8	4095.7	4159.2	4185.4	4192.8	4196.6	4185.4	4192.8	4185.4
7.5°	3826.6	3949.9	4140.5	4241.4	4252.6	4211.5	4215.3	4200.3	4215.3	4230.2	4230.2
10°	3946.2	4103.1	4282.5	4319.9	4271.3	4248.9	4293.7	4383.4	4413.3	4454.4	4454.4
12.5°	4103.1	4290.0	4417.0	4383.4	4338.6	4413.3	4544.1	4633.8	4663.7	4678.6	4667.4
15°	4282.5	4484.3	4547.8	4435.7	4517.9	4678.6	4723.5	4671.2	4596.4	4562.8	4581.5
17.5°	4510.5	4678.6	4641.3	4566.5	4753.4	4775.8	4630.0	4461.9	4342.3	4297.5	4327.4
20°	4749.6	4895.4	4723.5	4757.1	4872.9	4633.8	4357.3	4140.5	4035.9	4017.2	4047.1
22.5°	5003.7	5097.2	4805.7	4977.6	4805.7	4319.9	3987.3	3875.2	3849.0	3878.9	3905.1
25°	5291.5	5280.3	4947.7	5044.8	4555.3	3935.0	3736.9	3729.5	3729.5	3748.1	3785.5
27.5°	5616.6	5441.0	5089.7	4955.2	4121.8	3617.3	3580.0	3583.7	3572.5	3576.2	3594.9
30°	5994.0	5657.7	5246.6	4659.9	3636.0	3378.2	3363.2	3352.0	3325.9	3318.4	3325.9
32.5°	6468.6	5885.7	5407.3	4174.1	3210.0	3131.5	3124.1	3064.3	3000.7	2993.3	3019.4
35°	7070.3	6300.5	5489.5	3565.0	2858.7	2855.0	2828.9	2735.4	2653.2	2653.2	2634.5
37.5°	7757.9	6834.8	5523.2	2970.9	2567.3	2586.0	2511.2	2391.6	2328.1	2290.7	2301.9
40°	8460.4	7444.0	5519.4	2451.4	2313.2	2316.9	2260.8	2115.1	1958.1	1864.7	1887.1
42.5°	9136.8	7997.0	5422.3	2174.9	2107.6	2096.4	2051.6	1853.5	1722.7	1648.0	1651.7
45°	9678.6	8568.8	5272.8	2010.5	1920.8	1939.5	1838.6	1719.0	1599.4	1532.1	1528.4
47.5°	10220.5	9002.2	5033.6	1909.6	1782.5	1748.9	1707.8	1625.6	1535.9	1461.1	1464.9
50°	10713.8	9372.2	4809.4	1842.3	1655.5	1569.5	1577.0	1528.4	1449.9	1382.7	1378.9
52.5°	11061.3	9615.1	4686.1	1804.9	1502.2	1408.8	1435.0	1408.8	1334.1	1285.5	1281.8
55°	11408.8	9802.0	4727.2	1756.4	1334.1	1259.3	1304.2	1296.7	1255.6	1240.7	1244.4
57.5°	11689.1	9944.0	4872.9	1666.7	1173.4	1128.6	1203.3	1180.9	1151.0	1154.7	1154.7
60°	11961.9	10127.1	5044.8	1461.1	1035.1	1038.9	1109.9	1068.8	1050.1	1083.7	1087.4
62.5°	12245.9	10325.1	4902.8	1162.2	915.5	941.7	1023.9	990.3	997.8	1046.3	1061.3
65°	12212.3	10306.4	3994.8	952.9	810.9	863.2	986.5	975.3	979.1	997.8	1005.2
67.5°	11524.7	9648.7	2746.6	810.9	736.2	799.7	956.7	911.8	915.5	904.3	908.1
68°	11293.0	9417.0	2421.5	788.5	721.2	784.8	941.7	900.6	904.3	893.1	889.4
70°	10029.9	8064.3	1532.1	695.1	668.9	743.6	867.0	852.0	848.3	840.8	840.8
72.5°	7645.7	5952.9	807.2	601.6	609.1	680.1	773.5	803.4	784.8	788.5	810.9
75°	5063.5	3580.0	560.5	515.7	534.4	583.0	687.6	747.4	728.7	739.9	728.7
77.5°	2679.4	1928.3	448.4	437.2	437.2	470.9	568.0	661.4	661.4	654.0	642.8
80°	878.2	680.1	358.7	343.8	351.3	370.0	455.9	541.9	553.1	538.1	530.6
82.5°	295.2	313.9	269.1	250.4	257.8	272.8	343.8	414.8	418.5	388.6	381.2
85°	183.1	209.3	168.2	164.4	164.4	168.2	209.3	228.0	209.3	186.8	194.3
87.5°	85.9	104.6	78.5	67.3	56.1	48.6	37.4	14.9	14.9	7.5	7.5
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)