

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: P1210569

Luminaire Tested: **ARCH3-160-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210569
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: ARCH3-160-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22715 lumens
Efficiency: N/A
Efficacy: 141.1 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): 161
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

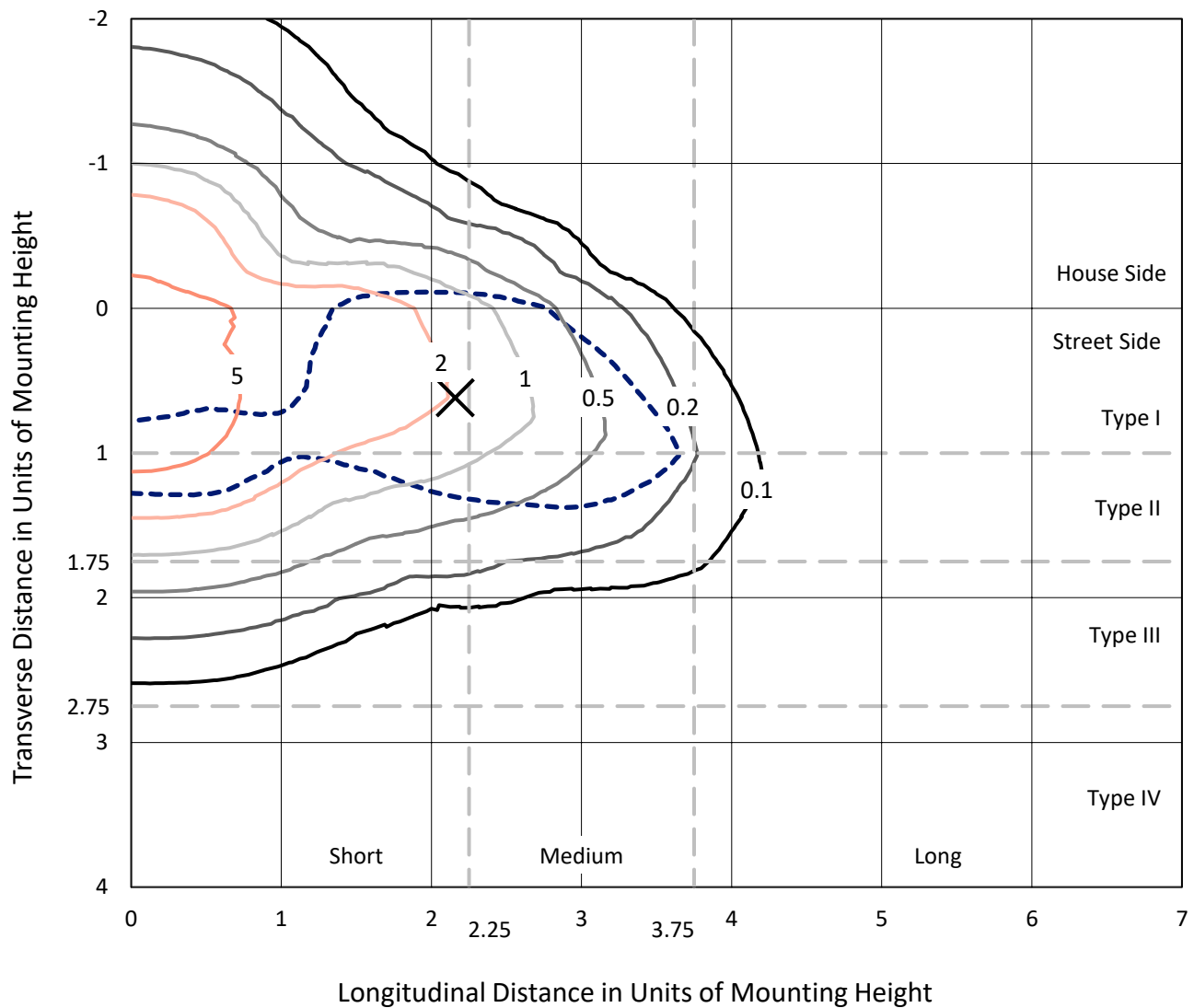


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

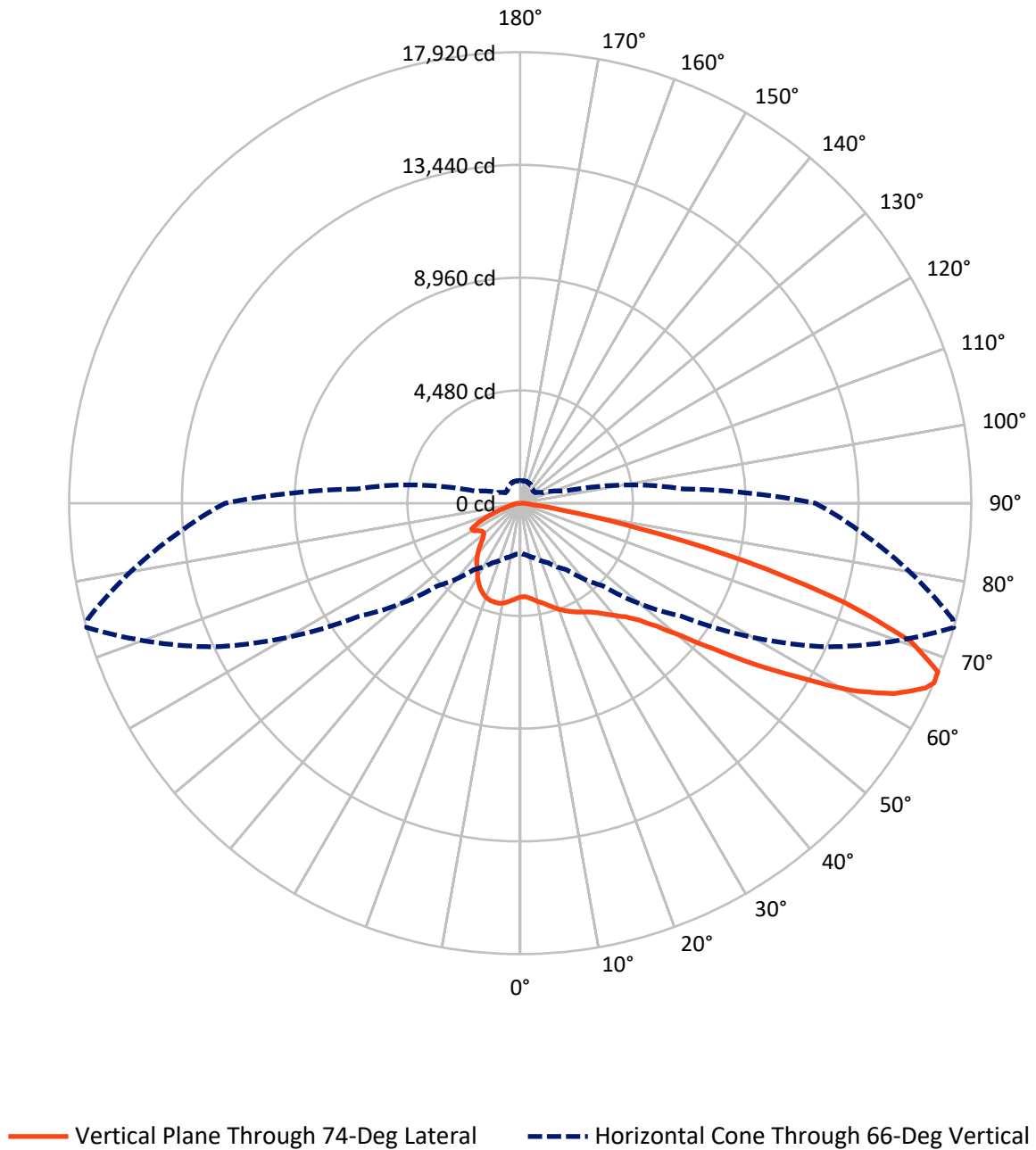


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5531.7	0.0	5531.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	17183.3	0.0	17183.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	22715.0	0.0	22715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.2	1.6
10°-20°	1092.3	4.8
20°-30°	2049.8	9.0
30°-40°	3153.1	13.9
40°-50°	4241.2	18.7
50°-60°	5015.7	22.1
60°-70°	4639.8	20.4
70°-80°	1951.9	8.6
80°-90°	216.0	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°	22715.0	100.0
0°-180°	22715.0	100.0

Coefficient of Utilization



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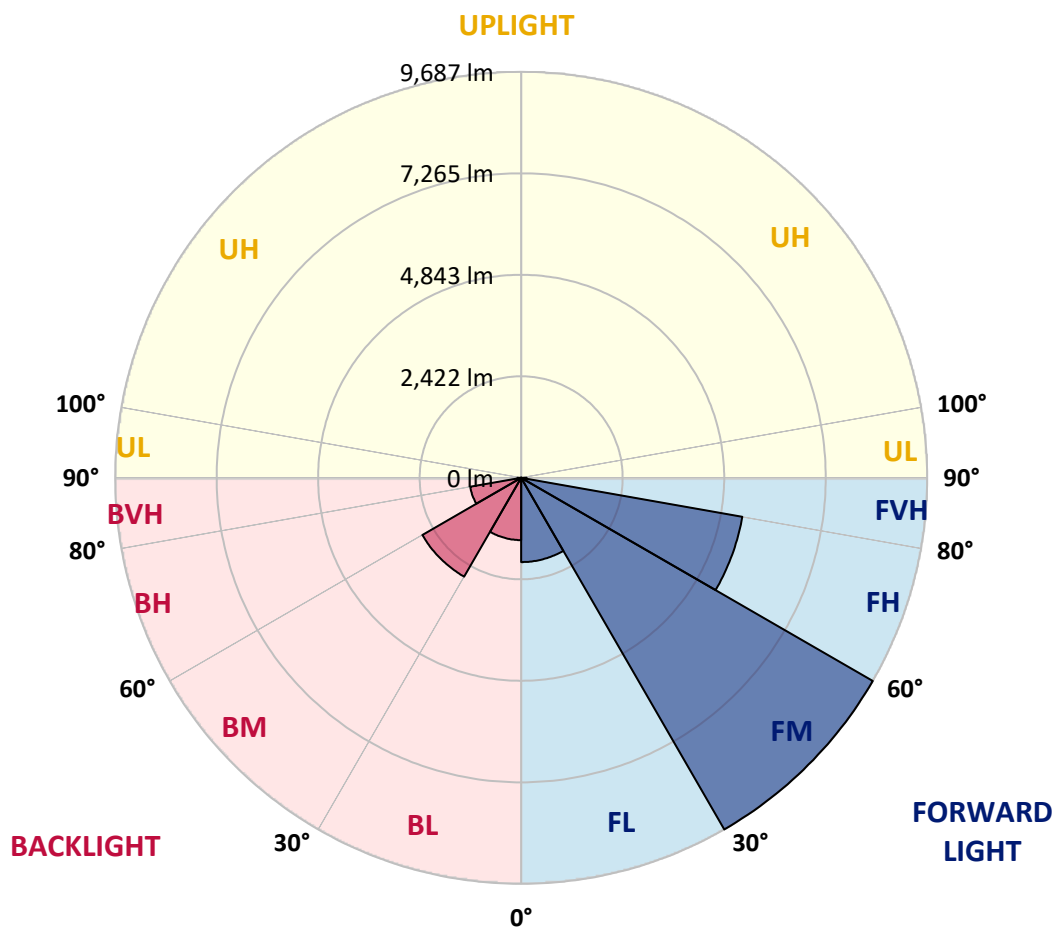
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2010.5	8.9			
FM	(30°-60°)	9686.7	42.6			
FH	(60°-80°)	5356.8	23.6			G3/7500
FVH	(80°-90°)	129.2	0.6			G2/225
BL	(0°-30°)	1486.8	6.5	B3/2500		
BM	(30°-60°)	2723.3	12.0	B3/5000		
BH	(60°-80°)	1234.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	86.8	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°	3723.7	3723.7	3723.7	3723.7	3723.7	3723.7	3723.7	3723.7	3723.7	3723.7	3723.7
2.5°	3712.1	3706.2	3717.9	3735.4	3744.2	3729.6	3723.7	3720.8	3720.8	3712.1	3726.7
5°	3536.7	3533.8	3560.1	3592.2	3653.6	3697.4	3755.9	3791.0	3779.3	3761.7	3773.4
7.5°	3308.7	3302.8	3335.0	3396.4	3481.1	3577.6	3720.8	3831.9	3875.7	3869.9	3867.0
10°	3396.4	3390.5	3387.6	3370.1	3399.3	3492.8	3641.9	3837.7	3986.8	3989.7	3992.6
12.5°	3700.4	3715.0	3700.4	3644.8	3580.5	3545.4	3633.1	3852.4	4080.3	4097.9	4170.9
15°	4115.4	4100.8	4071.6	4007.3	3907.9	3802.7	3738.4	3919.6	4214.8	4229.4	4390.2
17.5°	4480.8	4492.5	4474.9	4413.5	4296.6	4159.3	3963.4	4036.5	4358.0	4398.9	4624.0
20°	4878.3	4925.0	4901.7	4825.7	4729.2	4524.6	4279.1	4206.0	4515.8	4545.1	4866.6
22.5°	5337.2	5386.9	5343.0	5269.9	5191.0	4939.7	4624.0	4413.5	4647.4	4708.8	5100.4
25°	5886.7	5933.4	5892.5	5778.5	5679.1	5372.2	4995.2	4647.4	4776.0	4843.2	5290.4
27.5°	6322.2	6357.3	6395.3	6328.0	6176.0	5857.4	5381.0	4890.0	4904.6	4974.7	5465.8
30°	6710.9	6798.6	6830.8	6839.5	6710.9	6354.3	5775.6	5141.3	5015.7	5088.7	5641.2
32.5°	7242.9	7374.4	7321.8	7374.4	7298.4	6822.0	6184.8	5401.5	5158.9	5226.1	5807.8
35°	8020.4	8125.6	7988.2	7947.3	7824.5	7295.5	6579.4	5670.4	5348.9	5421.9	5965.6
37.5°	8856.3	8976.2	8777.4	8613.7	8379.9	7763.2	6918.4	6024.0	5611.9	5670.4	6111.7
40°	9587.0	9686.4	9514.0	9297.7	8906.0	8175.3	7210.7	6272.5	5875.0	5948.1	6281.3
42.5°	10262.2	10326.5	10133.6	9926.1	9402.9	8546.5	7526.4	6535.6	6181.9	6252.0	6418.6
45°	10946.2	10995.9	10727.0	10431.7	9817.9	8885.5	7874.2	6903.8	6632.0	6725.5	6640.8
47.5°	11068.9	11083.5	11036.8	10838.0	10145.3	9210.0	8303.9	7397.8	7318.9	7421.2	7023.7
50°	10218.4	10349.9	10639.3	10835.1	10276.8	9481.8	8733.6	8105.1	8265.9	8397.4	7818.7
52.5°	8566.9	8692.6	9362.0	10104.4	9961.2	9543.2	9195.4	9002.5	9601.6	9759.5	8900.2
55°	6824.9	6936.0	7643.3	8713.1	8941.1	9262.6	9689.3	10148.2	11305.7	11410.9	10086.8
57.5°	5620.7	5682.1	6187.7	7216.6	7581.9	8365.3	9955.3	11510.3	13038.9	13199.7	11118.6
60°	4609.4	4676.6	5053.7	5901.3	6386.5	7082.1	9744.9	12854.8	15108.3	15108.3	12442.7
62.5°	3469.5	3527.9	3878.7	4542.1	5357.6	5994.8	9072.6	13746.3	16669.2	16599.0	13401.4
65°	2382.1	2428.9	2683.2	3124.6	3858.2	5109.2	8154.8	13758.0	17703.9	17610.3	13810.6
66°	1999.2	2040.2	2256.5	2613.1	3229.8	4635.7	7830.4	13509.5	17920.2	17788.6	13638.1
67.5°	1578.4	1607.6	1750.8	1961.2	2367.5	3753.0	7318.9	12805.1	17899.7	17820.8	13199.7
70°	1128.2	1148.7	1253.9	1297.8	1400.1	2171.7	5813.6	11215.1	16464.6	16487.9	11475.2
72.5°	873.9	906.1	970.4	979.2	955.8	1154.5	3527.9	9356.1	13468.6	13459.8	8517.3
75°	704.4	722.0	754.1	771.6	765.8	745.3	1493.6	6979.8	9271.4	9379.5	4770.1
77.5°	555.3	552.4	581.7	605.0	622.6	584.6	684.0	4092.0	4860.7	4723.4	1791.7
80°	409.2	409.2	450.1	458.9	485.2	491.0	456.0	1578.4	1669.0	1517.0	464.7
82.5°	268.9	268.9	312.7	318.6	344.9	382.9	330.3	473.5	461.8	438.4	210.4
85°	146.1	140.3	154.9	175.4	190.0	225.1	198.8	236.8	242.6	239.7	140.3
87.5°	29.2	26.3	40.9	46.8	52.6	70.1	64.3	96.5	134.5	131.5	61.4
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°	3723.7	3723.7	3723.7	3723.7	3723.7	3723.7	3723.7	3723.7	3723.7	3723.7	3723.7
2.5°	3747.1	3744.2	3776.4	3814.4	3858.2	3884.5	3896.2	3916.7	3902.0	3907.9	3925.4
5°	3802.7	3811.4	3858.2	3907.9	3928.3	3913.7	3881.6	3869.9	3843.6	3837.7	3831.9
7.5°	3884.5	3899.1	3945.9	3957.6	3896.2	3793.9	3720.8	3679.9	3636.1	3624.4	3618.5
10°	4019.0	4027.7	4039.4	3919.6	3767.6	3630.2	3539.6	3501.6	3472.4	3449.0	3454.8
12.5°	4188.5	4182.6	4092.0	3843.6	3627.3	3487.0	3425.6	3402.2	3381.8	3367.2	3364.2
15°	4401.9	4360.9	4100.8	3738.4	3495.8	3378.8	3335.0	3326.2	3302.8	3302.8	3299.9
17.5°	4618.1	4512.9	4094.9	3627.3	3370.1	3305.8	3279.5	3273.6	3267.8	3264.9	3273.6
20°	4834.4	4647.4	4048.2	3489.9	3282.4	3244.4	3238.5	3241.5	3235.6	3244.4	3238.5
22.5°	5024.4	4735.1	3960.5	3343.8	3221.0	3218.1	3203.5	3209.3	3229.8	3232.7	3241.5
25°	5170.6	4767.2	3831.9	3209.3	3177.2	3171.3	3188.9	3212.2	3229.8	3232.7	3247.3
27.5°	5290.4	4749.7	3671.1	3104.1	3101.2	3133.3	3185.9	3194.7	3197.6	3197.6	3185.9
30°	5381.0	4711.7	3466.5	2987.2	3001.8	3080.7	3130.4	3130.4	3107.0	3101.2	3118.7
32.5°	5401.5	4662.0	3244.4	2867.3	2890.7	2984.3	3045.6	3025.2	2998.9	2998.9	3010.6
35°	5419.0	4594.8	3066.1	2703.7	2738.7	2849.8	2908.3	2867.3	2838.1	2829.3	2826.4
37.5°	5413.2	4568.5	2905.3	2496.1	2542.9	2651.0	2689.0	2651.0	2607.2	2586.7	2613.1
40°	5419.0	4550.9	2703.7	2268.2	2314.9	2379.2	2428.9	2399.7	2358.8	2306.1	2332.5
42.5°	5454.1	4574.3	2481.5	2046.0	2046.0	2081.1	2165.9	2145.4	2046.0	2025.6	2048.9
45°	5641.2	4700.0	2259.4	1823.9	1791.7	1815.1	1902.8	1815.1	1753.7	1753.7	1774.2
47.5°	6094.2	4933.8	2063.6	1628.0	1552.0	1598.8	1622.2	1540.4	1493.6	1481.9	1502.4
50°	7017.8	5401.5	1946.6	1467.3	1373.8	1408.8	1394.2	1391.3	1344.5	1350.4	1362.1
52.5°	8420.8	6313.4	1911.6	1388.4	1271.5	1280.2	1265.6	1271.5	1262.7	1291.9	1300.7
55°	9949.5	7275.0	1955.4	1400.1	1201.3	1139.9	1145.8	1175.0	1210.1	1256.8	1265.6
57.5°	11092.3	7757.3	2069.4	1479.0	1113.6	1020.1	1034.7	1090.2	1157.5	1195.5	1215.9
60°	11942.9	7698.9	2236.0	1499.4	1008.4	911.9	938.2	1020.1	1078.5	1110.7	1131.2
62.5°	12220.5	7333.5	2276.9	1350.4	871.0	809.6	873.9	958.7	985.0	1020.1	1034.7
65°	11992.6	6816.1	1978.8	1096.1	765.8	733.6	827.2	891.5	926.6	944.1	947.0
66°	11723.7	6506.3	1818.0	996.7	727.8	710.3	809.6	862.2	897.3	894.4	897.3
67.5°	11133.2	5857.4	1557.9	856.4	672.3	675.2	780.4	815.5	827.2	818.4	818.4
70°	9125.2	4124.2	1116.5	648.9	590.4	631.3	701.5	710.3	736.6	724.9	724.9
72.5°	5626.5	2025.6	748.3	496.9	526.1	590.4	587.5	616.7	678.1	695.6	707.3
75°	2765.0	821.3	494.0	420.9	470.6	494.0	488.1	561.2	648.9	724.9	751.2
77.5°	1049.3	409.2	344.9	368.3	380.0	371.2	388.7	508.6	648.9	786.3	812.6
80°	324.4	283.5	271.8	304.0	286.4	271.8	292.3	420.9	549.5	596.3	596.3
82.5°	195.8	222.1	210.4	207.5	192.9	195.8	210.4	301.1	423.8	444.3	444.3
85°	137.4	146.1	119.8	114.0	111.1	108.1	108.1	175.4	251.4	248.4	257.2
87.5°	52.6	58.5	43.8	43.8	40.9	29.2	23.4	29.2	29.2	20.5	14.6
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)