

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: P1211127

Luminaire Tested: **ARCH4-180-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211127
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: ARCH4-180-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24150 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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

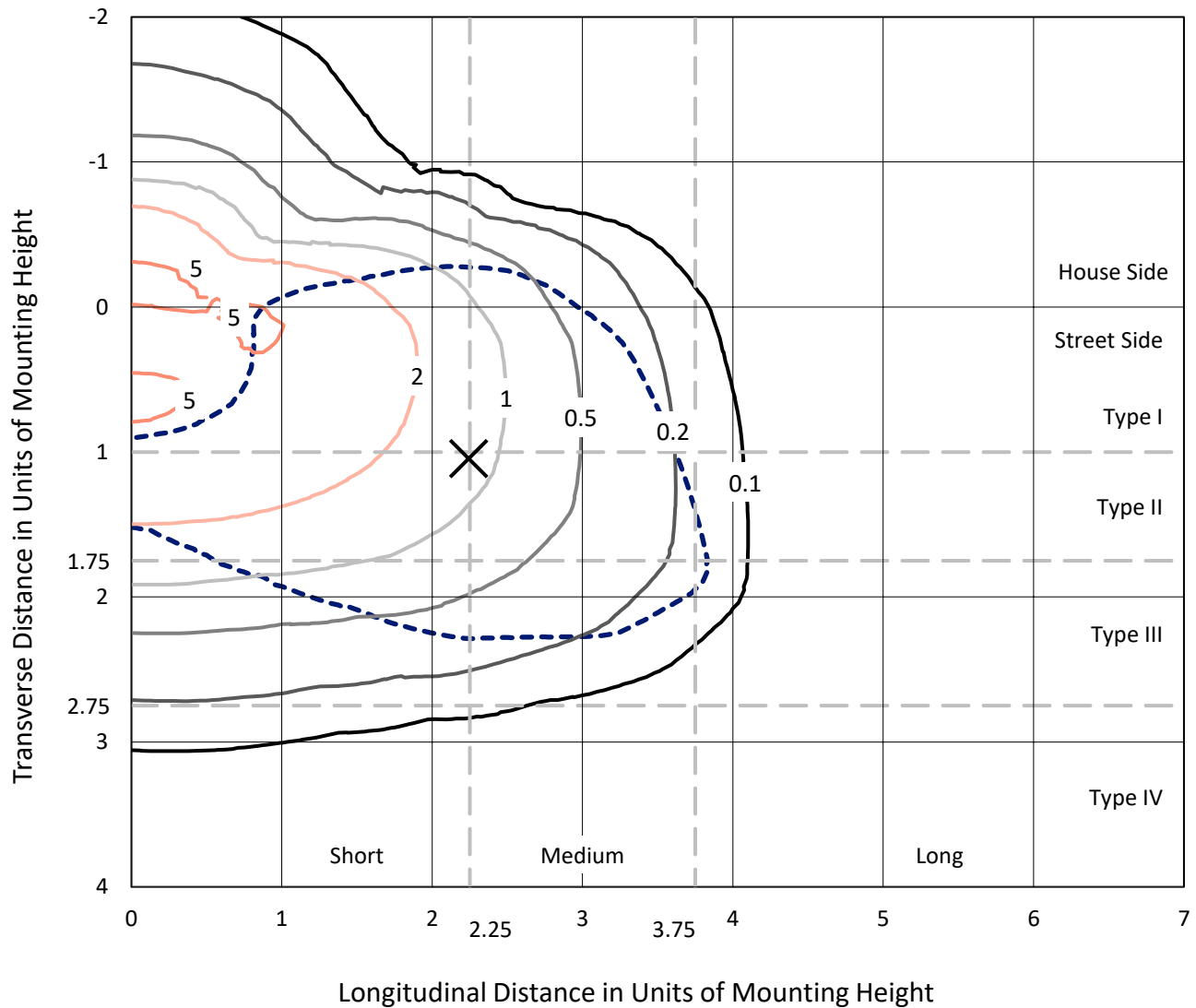


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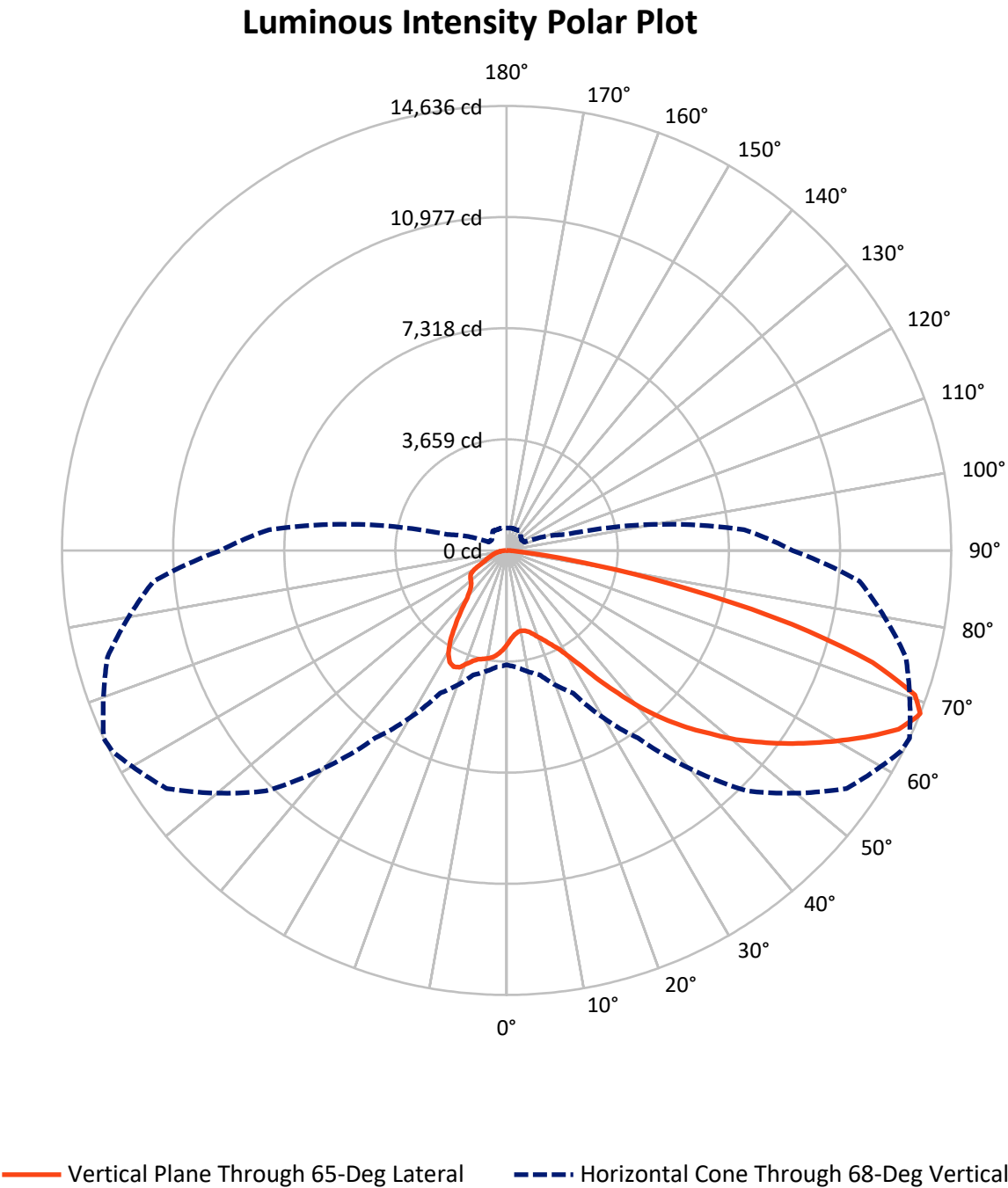
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5920.9	0.0	5920.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	18229.1	0.0	18229.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	24150.0	0.0	24150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	1.2
10°-20°	960.3	4.0
20°-30°	1738.1	7.2
30°-40°	2734.2	11.3
40°-50°	4072.3	16.9
50°-60°	5342.0	22.1
60°-70°	5841.8	24.2
70°-80°	2890.7	12.0
80°-90°	275.7	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°	24150.0	100.0
0°-180°	24150.0	100.0

Coefficient of Utilization



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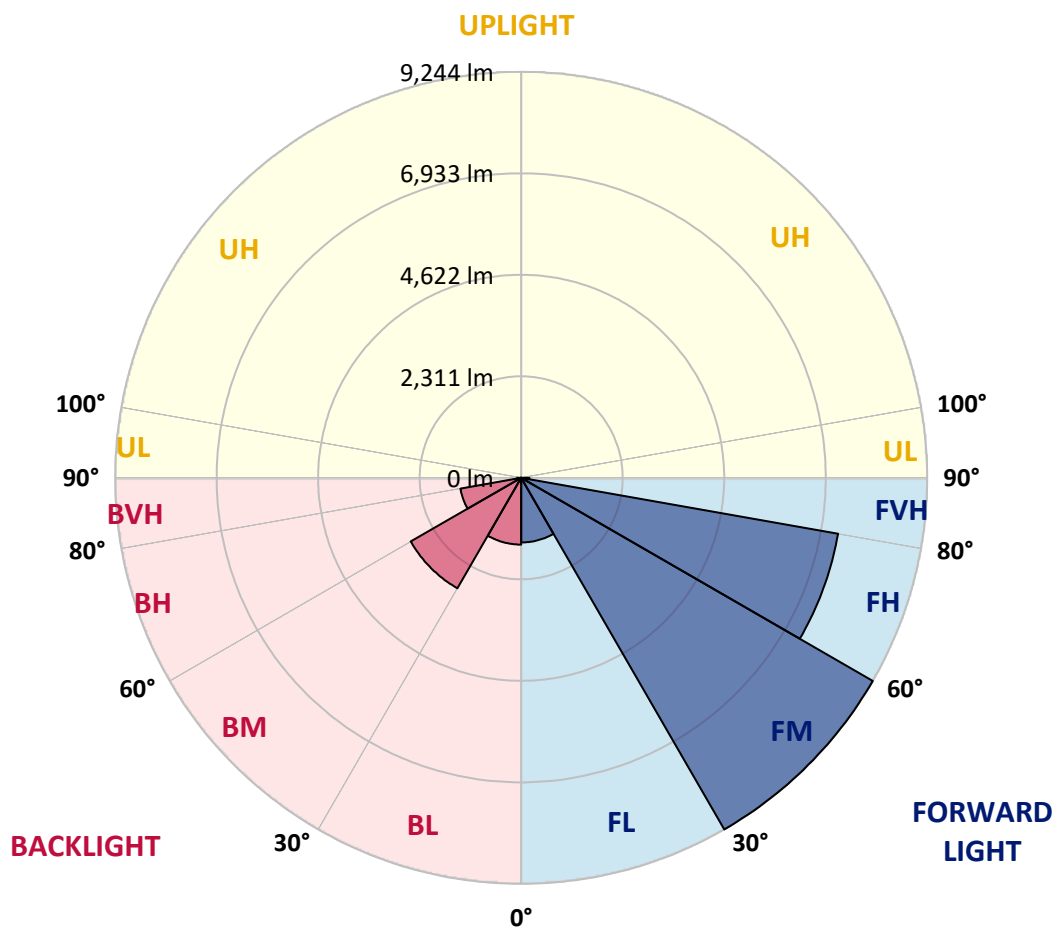
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1472.2	6.1			
FM	(30°-60°)	9244.3	38.3			
FH	(60°-80°)	7327.2	30.3			G3/7500
FVH	(80°-90°)	185.5	0.8			G2/225
BL	(0°-30°)	1521.1	6.3	B3/2500		
BM	(30°-60°)	2904.1	12.0	B3/5000		
BH	(60°-80°)	1405.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	90.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3086.1	3086.1	3086.1	3086.1	3086.1	3086.1	3086.1	3086.1	3086.1	3086.1	3086.1
2.5°	2693.7	2687.5	2703.0	2718.6	2752.9	2793.4	2849.4	2896.1	2902.3	2989.5	3058.0
5°	2534.9	2525.5	2541.1	2559.8	2575.4	2625.2	2684.4	2752.9	2780.9	2908.6	3054.9
7.5°	2550.5	2547.3	2553.6	2547.3	2547.3	2569.1	2609.6	2678.1	2709.3	2861.9	3070.5
10°	2640.8	2647.0	2650.1	2631.4	2612.7	2603.4	2615.8	2662.6	2684.4	2865.0	3139.0
12.5°	2790.2	2799.6	2802.7	2768.4	2743.5	2703.0	2681.2	2699.9	2715.5	2896.1	3235.6
15°	2992.7	2998.9	2977.1	2955.3	2893.0	2843.2	2790.2	2774.7	2780.9	2961.5	3344.5
17.5°	3229.3	3220.0	3220.0	3167.0	3086.1	3008.2	2921.0	2908.6	2908.6	3067.4	3500.3
20°	3487.8	3497.1	3469.1	3397.5	3316.5	3195.1	3107.9	3051.8	3058.0	3188.8	3690.2
22.5°	3861.5	3877.1	3802.3	3699.6	3575.0	3434.9	3310.3	3220.0	3223.1	3347.7	3886.4
25°	4263.2	4269.4	4222.7	4085.7	3917.5	3718.2	3553.2	3438.0	3434.9	3525.2	4138.6
27.5°	4674.3	4702.3	4608.9	4478.1	4322.4	4073.2	3855.3	3699.6	3674.6	3796.1	4453.2
30°	5097.8	5132.0	5041.7	4914.1	4721.0	4509.2	4250.8	4070.1	4054.6	4216.5	4873.6
32.5°	5524.4	5533.8	5462.1	5356.3	5181.9	4982.6	4773.9	4574.6	4559.0	4823.7	5418.5
35°	5873.2	5901.2	5851.4	5826.5	5698.8	5515.1	5312.7	5197.4	5237.9	5577.4	6125.4
37.5°	6293.6	6321.6	6265.6	6259.3	6218.9	6060.0	5919.9	5929.3	5969.7	6430.6	6869.7
40°	6900.9	6932.0	6788.7	6726.5	6726.5	6570.8	6524.0	6745.1	6798.1	7271.4	7645.1
42.5°	7414.7	7464.5	7380.4	7339.9	7218.5	7109.5	7165.6	7477.0	7567.3	8074.9	8320.9
45°	7663.8	7701.2	7800.8	7919.2	7800.8	7610.9	7822.6	8174.5	8302.2	8816.0	8996.6
47.5°	7797.7	7832.0	7947.2	8264.8	8345.8	8187.0	8485.9	8925.0	9012.2	9551.0	9641.3
50°	7816.4	7925.4	8074.9	8392.5	8763.1	8784.9	9152.3	9688.0	9790.7	10273.4	10208.0
52.5°	7663.8	7707.4	8015.7	8551.3	8962.4	9336.1	9877.9	10419.8	10494.5	10952.3	10709.4
55°	7414.7	7477.0	7785.3	8514.0	9155.5	9859.3	10616.0	11139.1	11223.2	11612.5	11173.4
57.5°	7190.5	7221.6	7551.7	8405.0	9348.5	10382.4	11273.1	11889.6	11945.7	12191.7	11516.0
60°	6941.3	6975.6	7305.7	8171.4	9491.8	10777.9	11958.2	12646.4	12696.2	12802.1	11914.6
62.5°	6296.7	6387.0	6801.2	7785.3	9454.4	11229.5	12690.0	13393.8	13456.0	13340.8	12229.1
65°	5113.4	5241.0	5748.6	6910.2	9105.6	11522.2	13287.9	14082.0	14187.9	13745.7	12313.2
67.5°	3970.5	4060.8	4468.7	5483.9	7881.8	11375.8	13674.0	14555.3	14586.5	13680.3	11846.0
68°	3765.0	3855.3	4244.5	5185.0	7542.4	11201.4	13664.7	14567.8	14636.3	13608.6	11665.4
70°	2880.5	2983.3	3353.9	4107.5	6078.7	10092.8	13094.8	14268.8	14259.5	12742.9	10544.4
72.5°	1800.0	1859.1	2114.5	2590.9	4020.3	7679.4	11114.2	12584.1	12609.0	10388.6	8087.3
75°	1142.9	1142.9	1130.4	1255.0	2061.5	4375.3	8261.7	9688.0	9706.7	7274.5	5097.8
77.5°	993.4	965.4	831.5	703.8	822.1	1700.3	4889.1	6256.2	6153.5	3917.5	2419.7
80°	837.7	791.0	682.0	566.8	529.4	532.5	1877.8	3176.4	3039.4	1410.7	803.4
82.5°	604.1	563.7	513.8	445.3	407.9	317.6	392.4	918.7	896.9	407.9	261.6
85°	327.0	295.8	289.6	292.7	246.0	196.2	165.0	202.4	202.4	177.5	149.5
87.5°	115.2	84.1	99.7	112.1	96.5	81.0	65.4	77.9	81.0	77.9	71.6
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°	3086.1	3086.1	3086.1	3086.1	3086.1	3086.1	3086.1	3086.1	3086.1	3086.1	3086.1
2.5°	3098.5	3129.7	3204.4	3269.8	3316.5	3357.0	3378.8	3388.1	3409.9	3413.1	3406.8
5°	3123.4	3204.4	3316.5	3413.1	3466.0	3487.8	3494.0	3497.1	3487.8	3494.0	3487.8
7.5°	3188.8	3291.6	3450.4	3534.5	3543.8	3509.6	3512.7	3500.3	3512.7	3525.2	3525.2
10°	3288.5	3419.3	3568.8	3599.9	3559.4	3540.7	3578.1	3652.8	3677.8	3712.0	3712.0
12.5°	3419.3	3575.0	3680.9	3652.8	3615.5	3677.8	3786.7	3861.5	3886.4	3898.9	3889.5
15°	3568.8	3736.9	3789.9	3696.4	3765.0	3898.9	3936.2	3892.6	3830.3	3802.3	3817.9
17.5°	3758.7	3898.9	3867.7	3805.4	3961.1	3979.8	3858.4	3718.2	3618.6	3581.2	3606.1
20°	3958.0	4079.5	3936.2	3964.3	4060.8	3861.5	3631.0	3450.4	3363.2	3347.7	3372.6
22.5°	4169.8	4247.6	4004.7	4148.0	4004.7	3599.9	3322.7	3229.3	3207.5	3232.4	3254.2
25°	4409.6	4400.2	4123.1	4204.0	3796.1	3279.2	3114.1	3107.9	3107.9	3123.4	3154.6
27.5°	4680.5	4534.1	4241.4	4129.3	3434.9	3014.5	2983.3	2986.4	2977.1	2980.2	2995.8
30°	4995.0	4714.8	4372.2	3883.3	3030.0	2815.1	2802.7	2793.4	2771.6	2765.3	2771.6
32.5°	5390.5	4904.7	4506.1	3478.5	2675.0	2609.6	2603.4	2553.6	2500.6	2494.4	2516.2
35°	5891.9	5250.4	4574.6	2970.9	2382.3	2379.2	2357.4	2279.5	2211.0	2211.0	2195.4
37.5°	6464.9	5695.7	4602.6	2475.7	2139.4	2155.0	2092.7	1993.0	1940.1	1908.9	1918.3
40°	7050.3	6203.3	4599.5	2042.9	1927.6	1930.7	1884.0	1762.6	1631.8	1553.9	1572.6
42.5°	7614.0	6664.2	4518.6	1812.4	1756.4	1747.0	1709.6	1544.6	1435.6	1373.3	1376.4
45°	8065.5	7140.6	4394.0	1675.4	1600.6	1616.2	1532.1	1432.5	1332.8	1276.8	1273.7
47.5°	8517.1	7501.9	4194.7	1591.3	1485.4	1457.4	1423.1	1354.6	1279.9	1217.6	1220.7
50°	8928.1	7810.2	4007.9	1535.3	1379.5	1307.9	1314.2	1273.7	1208.3	1152.2	1149.1
52.5°	9217.7	8012.6	3905.1	1504.1	1251.9	1174.0	1195.8	1174.0	1111.7	1071.3	1068.1
55°	9507.4	8168.3	3939.3	1463.6	1111.7	1049.5	1086.8	1080.6	1046.3	1033.9	1037.0
57.5°	9740.9	8286.6	4060.8	1388.9	977.8	940.5	1002.7	984.1	959.1	962.3	962.3
60°	9968.2	8439.2	4204.0	1217.6	862.6	865.7	924.9	890.6	875.1	903.1	906.2
62.5°	10204.9	8604.3	4085.7	968.5	763.0	784.8	853.3	825.2	831.5	871.9	884.4
65°	10176.9	8588.7	3329.0	794.1	675.8	719.4	822.1	812.8	815.9	831.5	837.7
67.5°	9603.9	8040.6	2288.9	675.8	613.5	666.4	797.2	759.8	763.0	753.6	756.7
68°	9410.8	7847.5	2017.9	657.1	601.0	654.0	784.8	750.5	753.6	744.3	741.2
70°	8358.3	6720.2	1276.8	579.2	557.4	619.7	722.5	710.0	706.9	700.7	700.7
72.5°	6371.5	4960.8	672.6	501.4	507.6	566.8	644.6	669.5	654.0	657.1	675.8
75°	4219.6	2983.3	467.1	429.7	445.3	485.8	573.0	622.8	607.3	616.6	607.3
77.5°	2232.8	1606.9	373.7	364.4	364.4	392.4	473.3	551.2	551.2	545.0	535.6
80°	731.8	566.8	299.0	286.5	292.7	308.3	379.9	451.5	460.9	448.4	442.2
82.5°	246.0	261.6	224.2	208.6	214.9	227.3	286.5	345.7	348.8	323.9	317.6
85°	152.6	174.4	140.1	137.0	137.0	140.1	174.4	190.0	174.4	155.7	161.9
87.5°	71.6	87.2	65.4	56.1	46.7	40.5	31.1	12.5	12.5	6.2	6.2
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)