

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: P1210969

Luminaire Tested: **ARCH4-130-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210969
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: ARCH4-130-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20604 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 132
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

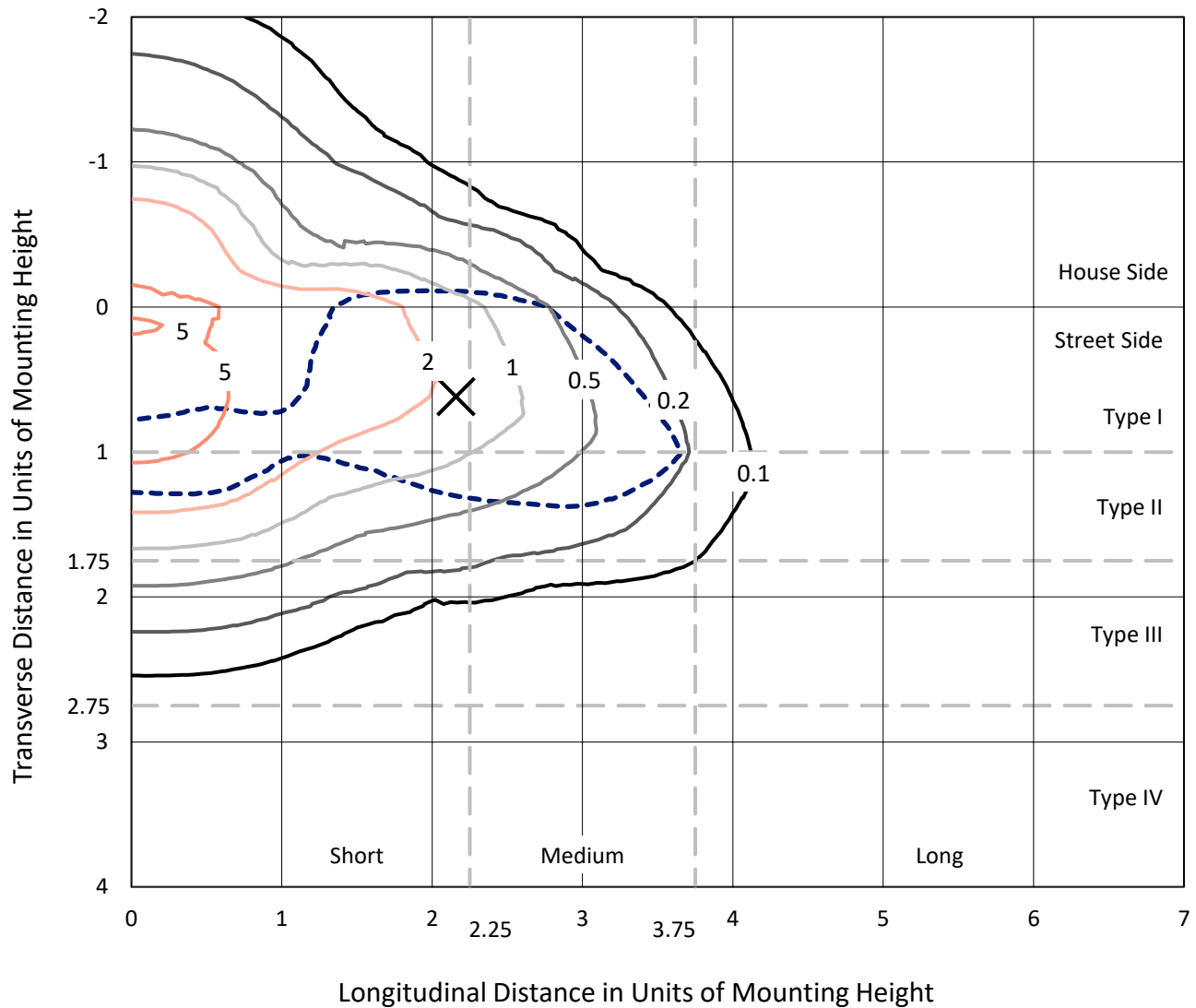


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

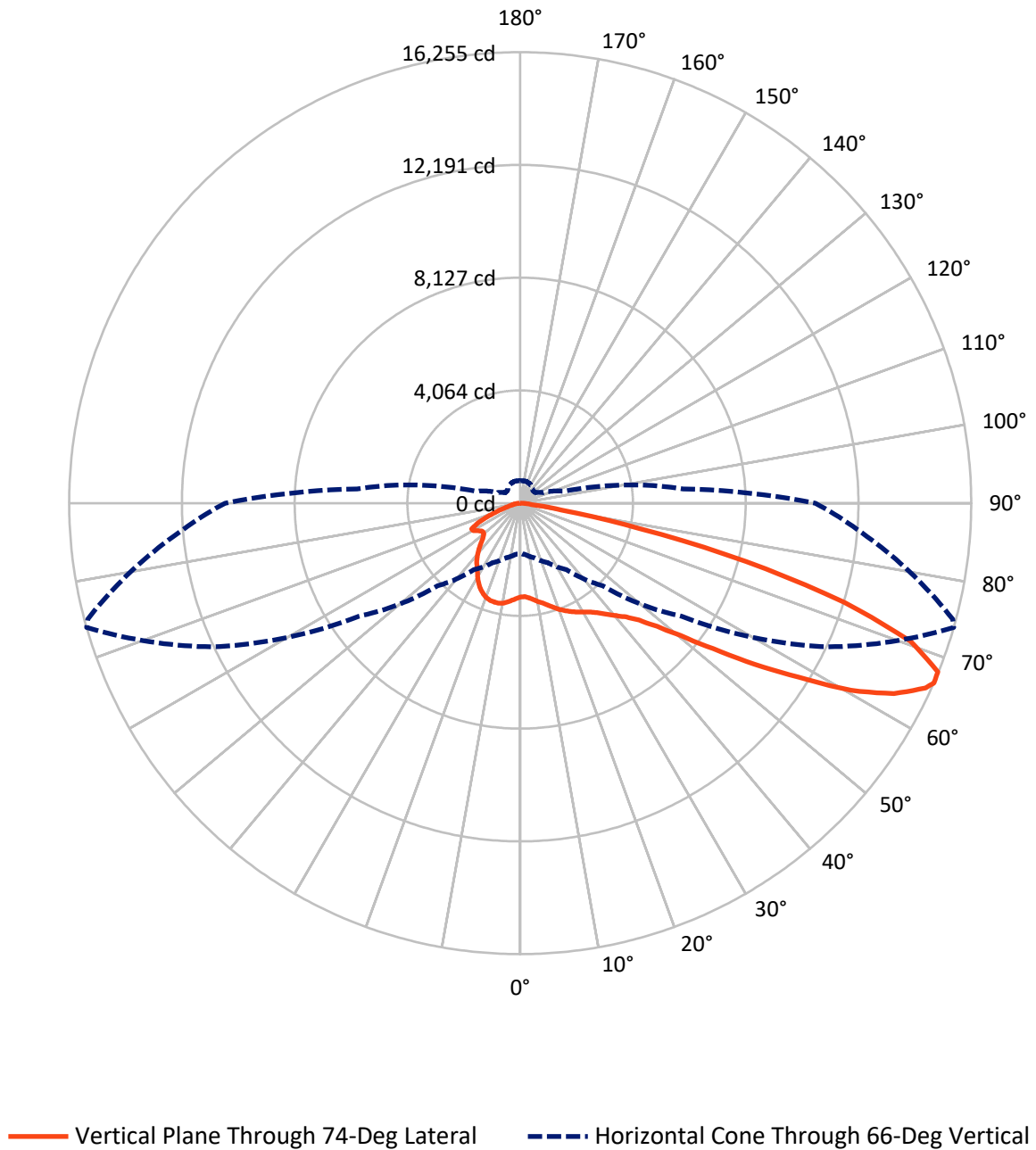


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5017.6	0.0	5017.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	15586.4	0.0	15586.4
	% Fixture	75.6	0.0	75.6
Total	Lumens	20604.0	0.0	20604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.2	1.6
10°-20°	990.8	4.8
20°-30°	1859.3	9.0
30°-40°	2860.1	13.9
40°-50°	3847.0	18.7
50°-60°	4549.6	22.1
60°-70°	4208.6	20.4
70°-80°	1770.5	8.6
80°-90°	195.9	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°	20604.0	100.0
0°-180°	20604.0	100.0

Coefficient of Utilization



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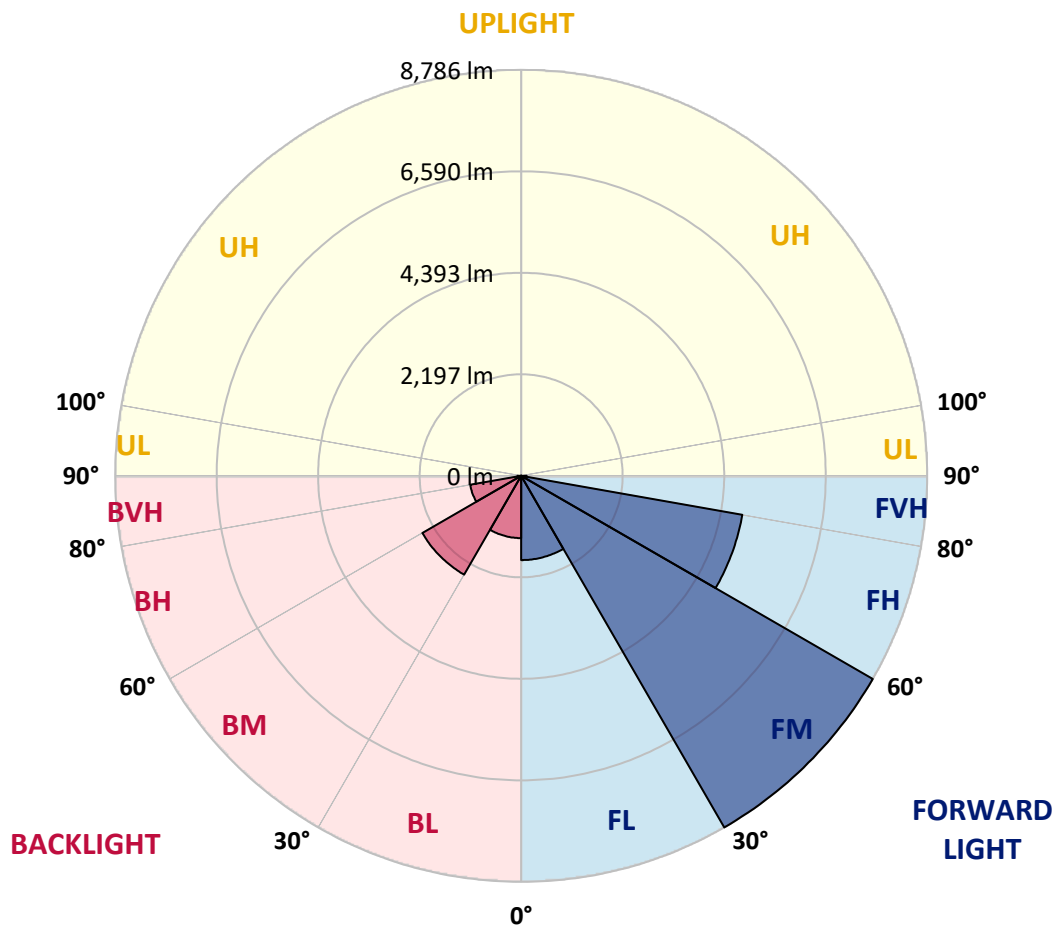
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1823.7	8.9			
FM	(30°-60°)	8786.4	42.6			
FH	(60°-80°)	4859.0	23.6			G2/5000
FVH	(80°-90°)	117.2	0.6			G2/225
BL	(0°-30°)	1348.6	6.5	B3/2500		
BM	(30°-60°)	2470.2	12.0	B2/2500		
BH	(60°-80°)	1120.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	78.7	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°	3377.7	3377.7	3377.7	3377.7	3377.7	3377.7	3377.7	3377.7	3377.7	3377.7	3377.7
2.5°	3367.1	3361.8	3372.4	3388.3	3396.2	3383.0	3377.7	3375.0	3375.0	3367.1	3380.3
5°	3208.0	3205.3	3229.2	3258.4	3314.1	3353.8	3406.8	3438.7	3428.1	3412.1	3422.8
7.5°	3001.2	2995.9	3025.1	3080.7	3157.6	3245.1	3375.0	3475.8	3515.5	3510.2	3507.6
10°	3080.7	3075.4	3072.8	3056.9	3083.4	3168.2	3303.4	3481.1	3616.3	3618.9	3621.6
12.5°	3356.5	3369.7	3356.5	3306.1	3247.8	3216.0	3295.5	3494.3	3701.1	3717.0	3783.3
15°	3732.9	3719.7	3693.2	3634.9	3544.7	3449.3	3390.9	3555.3	3823.1	3836.3	3982.2
17.5°	4064.4	4075.0	4059.0	4003.4	3897.3	3772.7	3595.1	3661.4	3953.0	3990.1	4194.3
20°	4424.9	4467.3	4446.1	4377.2	4289.7	4104.1	3881.4	3815.1	4096.2	4122.7	4414.3
22.5°	4841.2	4886.2	4846.5	4780.2	4708.6	4480.6	4194.3	4003.4	4215.5	4271.1	4626.4
25°	5339.6	5382.0	5344.9	5241.5	5151.4	4873.0	4531.0	4215.5	4332.1	4393.1	4798.7
27.5°	5734.6	5766.4	5800.9	5739.9	5602.1	5313.1	4880.9	4435.5	4448.8	4512.4	4957.8
30°	6087.2	6166.8	6195.9	6203.9	6087.2	5763.8	5238.9	4663.5	4549.5	4615.8	5116.9
32.5°	6569.8	6689.1	6641.4	6689.1	6620.1	6188.0	5610.0	4899.5	4679.4	4740.4	5268.0
35°	7275.0	7370.4	7245.8	7208.7	7097.4	6617.5	5967.9	5143.4	4851.8	4918.1	5411.2
37.5°	8033.3	8142.0	7961.7	7813.2	7601.1	7041.7	6275.5	5464.2	5090.4	5143.4	5543.7
40°	8696.1	8786.2	8629.8	8433.6	8078.3	7415.5	6540.6	5689.6	5329.0	5395.3	5697.5
42.5°	9308.5	9366.8	9191.9	9003.6	8529.0	7752.2	6826.9	5928.2	5607.4	5671.0	5822.1
45°	9928.9	9974.0	9730.1	9462.3	8905.5	8059.8	7142.4	6262.2	6015.7	6100.5	6023.6
47.5°	10040.2	10053.5	10011.1	9830.8	9202.5	8354.1	7532.2	6710.3	6638.7	6731.5	6370.9
50°	9268.7	9388.0	9650.5	9828.1	9321.8	8600.6	7921.9	7351.9	7497.7	7617.0	7092.1
52.5°	7770.8	7884.8	8491.9	9165.3	9035.4	8656.3	8340.8	8165.8	8709.3	8852.5	8073.0
55°	6190.6	6291.4	6933.0	7903.3	8110.1	8401.8	8788.9	9205.1	10255.0	10350.4	9149.4
57.5°	5098.3	5154.0	5612.7	6545.9	6877.3	7587.9	9030.1	10440.6	11827.2	11973.0	10085.3
60°	4181.0	4242.0	4584.0	5352.9	5793.0	6424.0	8839.2	11660.2	13704.3	13704.3	11286.3
62.5°	3147.0	3200.0	3518.2	4120.0	4859.7	5437.7	8229.5	12468.8	15120.0	15056.4	12155.9
65°	2160.8	2203.2	2433.8	2834.2	3499.6	4634.4	7397.0	12479.4	16058.6	15973.7	12527.1
66°	1813.4	1850.6	2046.8	2370.2	2929.6	4204.9	7102.7	12254.0	16254.8	16135.5	12370.7
67.5°	1431.7	1458.2	1588.1	1779.0	2147.5	3404.2	6638.7	11615.1	16236.2	16164.6	11973.0
70°	1023.4	1041.9	1137.4	1177.2	1269.9	1969.9	5273.3	10172.8	14934.4	14955.6	10408.8
72.5°	792.7	821.9	880.2	888.2	867.0	1047.2	3200.0	8486.6	12216.9	12209.0	7725.7
75°	638.9	654.9	684.0	699.9	694.6	676.1	1354.8	6331.2	8409.7	8507.8	4326.8
77.5°	503.7	501.1	527.6	548.8	564.7	530.2	620.4	3711.7	4409.0	4284.4	1625.2
80°	371.2	371.2	408.3	416.2	440.1	445.4	413.6	1431.7	1513.9	1376.0	421.5
82.5°	243.9	243.9	283.7	289.0	312.8	347.3	299.6	429.5	418.9	397.7	190.9
85°	132.6	127.3	140.5	159.1	172.3	204.1	180.3	214.8	220.1	217.4	127.3
87.5°	26.5	23.9	37.1	42.4	47.7	63.6	58.3	87.5	122.0	119.3	55.7
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°	3377.7	3377.7	3377.7	3377.7	3377.7	3377.7	3377.7	3377.7	3377.7	3377.7	3377.7
2.5°	3398.9	3396.2	3425.4	3459.9	3499.6	3523.5	3534.1	3552.7	3539.4	3544.7	3560.6
5°	3449.3	3457.2	3499.6	3544.7	3563.3	3550.0	3520.8	3510.2	3486.4	3481.1	3475.8
7.5°	3523.5	3536.8	3579.2	3589.8	3534.1	3441.3	3375.0	3337.9	3298.1	3287.5	3282.2
10°	3645.5	3653.4	3664.0	3555.3	3417.4	3292.8	3210.7	3176.2	3149.7	3128.5	3133.8
12.5°	3799.2	3793.9	3711.7	3486.4	3290.2	3162.9	3107.3	3086.0	3067.5	3054.2	3051.6
15°	3992.8	3955.7	3719.7	3390.9	3170.9	3064.8	3025.1	3017.1	2995.9	2995.9	2993.3
17.5°	4189.0	4093.5	3714.4	3290.2	3056.9	2998.6	2974.7	2969.4	2964.1	2961.4	2969.4
20°	4385.2	4215.5	3672.0	3165.6	2977.3	2942.9	2937.6	2940.2	2934.9	2942.9	2937.6
22.5°	4557.5	4295.0	3592.4	3033.0	2921.7	2919.0	2905.8	2911.1	2929.6	2932.3	2940.2
25°	4690.0	4324.2	3475.8	2911.1	2881.9	2876.6	2892.5	2913.7	2929.6	2932.3	2945.5
27.5°	4798.7	4308.3	3330.0	2815.6	2813.0	2842.1	2889.9	2897.8	2900.5	2900.5	2889.9
30°	4880.9	4273.8	3144.4	2709.6	2722.8	2794.4	2839.5	2839.5	2818.3	2813.0	2828.9
32.5°	4899.5	4228.7	2942.9	2600.9	2622.1	2706.9	2762.6	2744.0	2720.2	2720.2	2730.8
35°	4915.4	4167.8	2781.2	2452.4	2484.2	2585.0	2638.0	2600.9	2574.4	2566.4	2563.7
37.5°	4910.1	4143.9	2635.3	2264.2	2306.6	2404.7	2439.1	2404.7	2364.9	2346.3	2370.2
40°	4915.4	4128.0	2452.4	2057.4	2099.8	2158.1	2203.2	2176.7	2139.6	2091.8	2115.7
42.5°	4947.2	4149.2	2250.9	1855.9	1855.9	1887.7	1964.6	1946.0	1855.9	1837.3	1858.5
45°	5116.9	4263.2	2049.4	1654.4	1625.2	1646.4	1726.0	1646.4	1590.7	1590.7	1609.3
47.5°	5527.8	4475.3	1871.8	1476.7	1407.8	1450.2	1471.4	1397.2	1354.8	1344.2	1362.7
50°	6365.6	4899.5	1765.7	1330.9	1246.1	1277.9	1264.6	1262.0	1219.6	1224.9	1235.5
52.5°	7638.2	5726.7	1733.9	1259.3	1153.3	1161.2	1148.0	1153.3	1145.3	1171.8	1179.8
55°	9024.8	6598.9	1773.7	1269.9	1089.7	1034.0	1039.3	1065.8	1097.6	1140.0	1148.0
57.5°	10061.5	7036.4	1877.1	1341.5	1010.1	925.3	938.5	988.9	1049.9	1084.4	1102.9
60°	10833.0	6983.4	2028.2	1360.1	914.7	827.2	851.0	925.3	978.3	1007.5	1026.0
62.5°	11084.8	6652.0	2065.3	1224.9	790.1	734.4	792.7	869.6	893.5	925.3	938.5
65°	10878.0	6182.7	1794.9	994.2	694.6	665.5	750.3	808.6	840.4	856.4	859.0
66°	10634.1	5901.7	1649.1	904.1	660.2	644.3	734.4	782.1	813.9	811.3	813.9
67.5°	10098.6	5313.1	1413.1	776.8	609.8	612.4	707.9	739.7	750.3	742.3	742.3
70°	8277.2	3740.9	1012.8	588.6	535.6	572.7	636.3	644.3	668.1	657.5	657.5
72.5°	5103.6	1837.3	678.7	450.7	477.2	535.6	532.9	559.4	615.1	631.0	641.6
75°	2508.1	745.0	448.1	381.8	426.8	448.1	442.8	509.0	588.6	657.5	681.4
77.5°	951.8	371.2	312.8	334.1	344.7	336.7	352.6	461.3	588.6	713.2	737.0
80°	294.3	257.2	246.6	275.7	259.8	246.6	265.1	381.8	498.4	540.9	540.9
82.5°	177.6	201.5	190.9	188.2	175.0	177.6	190.9	273.1	384.4	403.0	403.0
85°	124.6	132.6	108.7	103.4	100.7	98.1	98.1	159.1	228.0	225.4	233.3
87.5°	47.7	53.0	39.8	39.8	37.1	26.5	21.2	26.5	26.5	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)