

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: P841314

Luminaire Tested: **ARCH4-160-730-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25414 lumens
Efficiency: N/A
Efficacy: 158.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.7
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

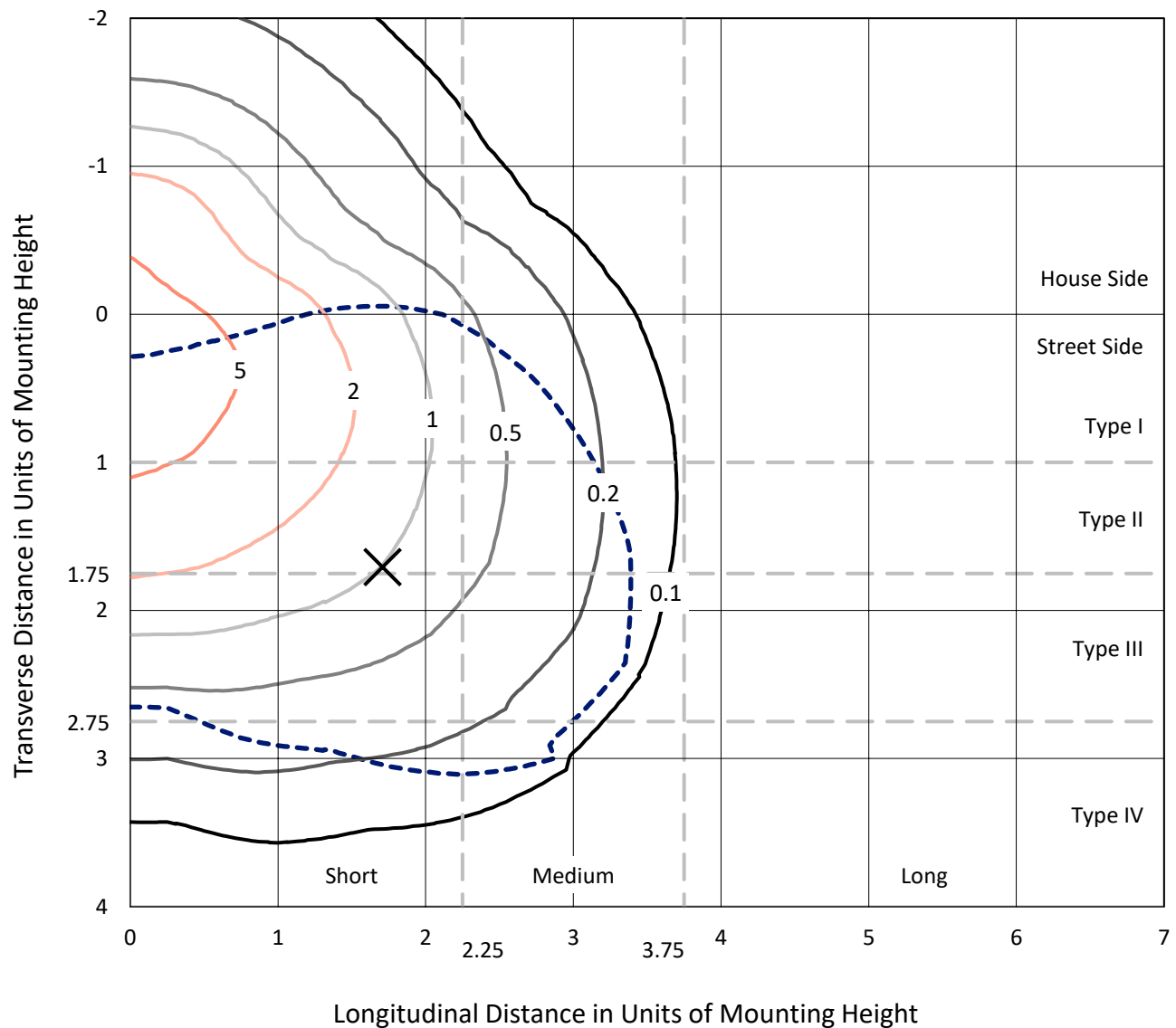


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Iso-Footcandle Lines of Horizontal Illumination

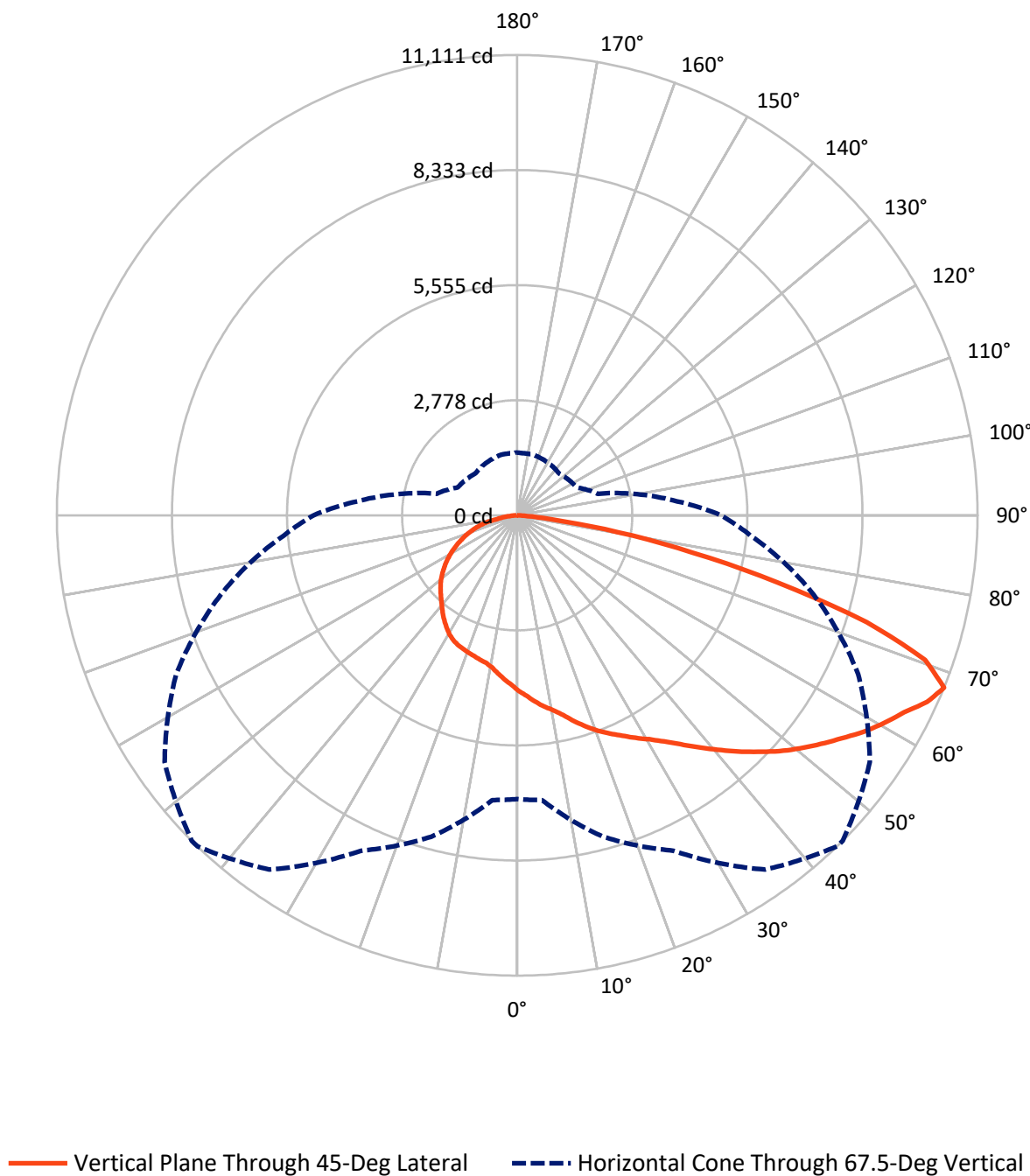
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6789.4	0.0	6789.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	18624.6	0.0	18624.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	25414.0	0.0	25414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	1.6
10°-20°	1253.6	4.9
20°-30°	2163.9	8.5
30°-40°	3191.0	12.6
40°-50°	4323.2	17.0
50°-60°	5284.0	20.8
60°-70°	5449.7	21.4
70°-80°	2985.0	11.7
80°-90°	357.8	1.4
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°	25414.0	100.0
0°-180°	25414.0	100.0

Coefficient of Utilization



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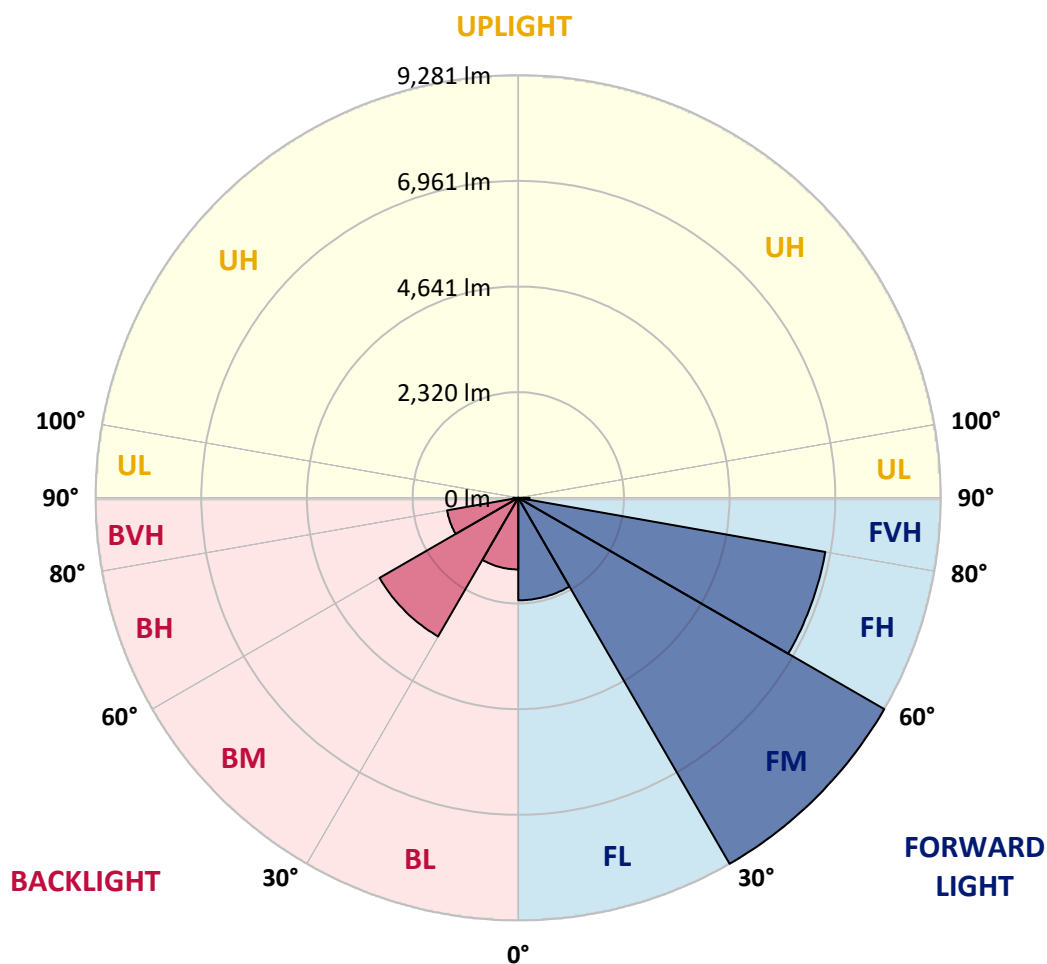
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2249.8	8.9			
FM	(30°-60°)	9281.4	36.5			
FH	(60°-80°)	6846.9	26.9			G3/7500
FVH	(80°-90°)	246.5	1.0			G3/500
BL	(0°-30°)	1573.5	6.2	B3/2500		
BM	(30°-60°)	3516.8	13.8	B3/5000		
BH	(60°-80°)	1587.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	111.3	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4238.6	4238.6	4238.6	4238.6	4238.6	4238.6	4238.6	4238.6	4238.6	4238.6	4238.6
2.5°	4424.2	4420.3	4428.1	4401.0	4366.2	4362.3	4362.3	4339.1	4312.1	4257.9	4215.4
5°	4633.0	4625.3	4629.2	4590.5	4544.1	4520.9	4517.0	4466.7	4404.9	4319.8	4242.4
7.5°	4826.4	4818.7	4814.8	4772.3	4702.7	4664.0	4660.1	4586.6	4513.2	4381.7	4269.5
10°	5008.2	5000.4	4992.7	4934.7	4849.6	4791.6	4783.9	4691.0	4598.2	4435.8	4292.7
12.5°	5240.2	5224.7	5217.0	5147.4	5023.6	4961.8	4950.2	4826.4	4710.4	4513.2	4339.1
15°	5483.8	5472.2	5460.6	5394.9	5255.7	5174.5	5155.1	5000.4	4841.9	4613.7	4408.7
17.5°	5665.6	5654.0	5654.0	5596.0	5468.4	5375.6	5360.1	5174.5	4977.2	4706.5	4462.9
20°	5777.8	5766.2	5777.8	5743.0	5646.3	5568.9	5553.5	5348.5	5112.6	4791.6	4509.3
22.5°	5859.0	5847.4	5866.7	5851.2	5781.6	5735.2	5723.6	5522.5	5251.8	4880.5	4555.7
25°	6002.1	6002.1	6002.1	5975.0	5909.3	5893.8	5893.8	5719.8	5429.7	4996.6	4625.3
27.5°	6288.2	6272.8	6253.4	6176.1	6063.9	6060.1	6083.3	5920.9	5634.7	5147.4	4710.4
30°	6709.8	6702.1	6628.6	6466.1	6276.6	6257.3	6272.8	6137.4	5855.1	5306.0	4807.1
32.5°	7255.1	7228.0	7077.2	6833.5	6562.8	6473.9	6504.8	6361.7	6087.1	5468.4	4899.9
35°	7641.8	7649.5	7541.3	7320.8	6999.8	6763.9	6787.1	6613.1	6338.5	5650.1	5015.9
37.5°	8086.5	8113.6	7951.2	7784.9	7487.1	7084.9	7108.1	6872.2	6589.9	5878.3	5139.7
40°	8701.5	8647.3	8372.7	8175.5	7846.8	7421.4	7440.7	7162.3	6879.9	6094.9	5282.7
42.5°	9215.8	9119.1	8786.5	8535.2	8140.7	7777.2	7796.5	7475.5	7173.9	6334.7	5441.3
45°	9954.5	9687.6	9208.1	9084.3	8442.3	8125.2	8144.6	7808.1	7483.2	6589.9	5611.5
47.5°	10383.7	9958.3	9652.8	9587.1	8774.9	8484.9	8508.1	8160.0	7815.8	6879.9	5789.4
50°	10356.7	10082.1	9993.1	9830.7	9068.8	8821.3	8844.5	8523.6	8152.3	7166.1	5959.5
52.5°	10178.8	10229.0	10182.6	9911.9	9362.8	9146.2	9173.3	8883.2	8496.5	7433.0	6118.1
55°	10453.3	10488.1	10399.2	10043.4	9687.6	9471.0	9502.0	9262.2	8836.8	7668.9	6253.4
57.5°	10782.1	10658.3	10569.4	10275.4	10024.1	9823.0	9857.8	9648.9	9130.7	7858.4	6357.9
60°	10766.6	10507.5	10596.4	10290.9	10252.2	10147.8	10178.8	9966.1	9355.0	7997.6	6400.4
62.5°	9973.8	9834.6	10283.2	10178.8	10437.9	10437.9	10476.5	10159.4	9490.4	8055.6	6377.2
65°	8597.0	8604.8	9393.7	9826.8	10658.3	10836.2	10867.1	10279.3	9413.0	7885.4	6160.6
67.5°	6849.0	6899.3	8032.4	8933.5	10437.9	11106.9	11110.8	10387.6	9080.4	7405.9	5657.9
70°	5012.0	5050.7	6388.8	7483.2	9397.6	10507.5	10445.6	10082.1	8357.3	6570.6	4872.8
72.5°	3387.8	3422.6	4799.3	5746.8	7711.4	8949.0	8813.6	8910.3	7123.6	5398.8	3917.6
75°	2277.8	2320.4	3414.8	4111.0	5673.3	6794.9	6493.2	6748.5	5510.9	4087.7	2857.9
77.5°	1434.8	1461.8	2169.6	2695.5	3875.0	4625.3	4323.7	4327.5	3175.1	2200.5	1535.3
80°	912.7	920.4	1314.9	1554.7	2243.0	2780.6	2459.6	1999.4	1430.9	1167.9	916.6
82.5°	529.8	518.2	785.1	877.9	1067.4	1055.8	874.0	827.6	626.5	584.0	467.9
85°	212.7	197.2	344.2	321.0	324.9	344.2	255.2	255.2	205.0	158.6	116.0
87.5°	42.5	42.5	46.4	42.5	42.5	46.4	34.8	34.8	30.9	30.9	30.9
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°	4238.6	4238.6	4238.6	4238.6	4238.6	4238.6	4238.6	4238.6	4238.6	4238.6	4238.6
2.5°	4207.6	4199.9	4180.6	4130.3	4103.2	4087.7	4064.5	4056.8	4052.9	4056.8	4068.4
5°	4219.2	4192.2	4138.0	4056.8	4002.7	3967.9	3929.2	3913.7	3902.1	3902.1	3913.7
7.5°	4227.0	4184.4	4091.6	3971.7	3894.4	3840.2	3793.8	3774.5	3770.6	3782.2	3786.1
10°	4230.8	4169.0	4037.5	3886.6	3786.1	3716.5	3670.1	3658.5	3670.1	3693.3	3697.1
12.5°	4257.9	4172.8	4006.5	3828.6	3708.8	3639.1	3604.3	3604.3	3635.3	3677.8	3681.7
15°	4304.3	4199.9	3991.1	3782.2	3658.5	3596.6	3585.0	3604.3	3650.7	3716.5	3724.2
17.5°	4339.1	4215.4	3956.3	3720.4	3592.7	3554.1	3573.4	3619.8	3685.5	3774.5	3782.2
20°	4362.3	4215.4	3906.0	3646.9	3527.0	3519.3	3573.4	3646.9	3716.5	3820.9	3832.5
22.5°	4385.5	4207.6	3848.0	3557.9	3453.5	3476.7	3577.3	3670.1	3739.7	3851.8	3871.2
25°	4428.1	4219.2	3790.0	3469.0	3376.2	3441.9	3573.4	3685.5	3759.0	3875.0	3906.0
27.5°	4486.1	4246.3	3747.4	3387.8	3298.8	3387.8	3546.3	3681.7	3759.0	3871.2	3906.0
30°	4548.0	4277.2	3697.1	3298.8	3209.9	3310.4	3488.3	3639.1	3728.1	3832.5	3875.0
32.5°	4613.7	4312.1	3654.6	3202.1	3101.6	3206.0	3403.2	3573.4	3670.1	3766.8	3813.2
35°	4702.7	4373.9	3631.4	3124.8	3004.9	3097.7	3294.9	3488.3	3592.7	3681.7	3735.8
37.5°	4810.9	4451.3	3619.8	3047.4	2900.5	2977.8	3178.9	3383.9	3496.0	3569.5	3619.8
40°	4934.7	4548.0	3615.9	2974.0	2796.1	2854.1	3059.0	3264.0	3372.3	3430.3	3472.8
42.5°	5073.9	4656.2	3608.2	2900.5	2691.6	2738.1	2943.0	3144.1	3236.9	3287.2	3325.9
45°	5220.9	4764.5	3592.7	2811.5	2579.5	2633.6	2823.1	3001.0	3097.7	3140.3	3182.8
47.5°	5367.8	4872.8	3561.8	2711.0	2478.9	2529.2	2695.5	2850.2	2927.6	2966.2	3008.8
50°	5510.9	4969.5	3488.3	2595.0	2374.5	2420.9	2548.6	2653.0	2711.0	2741.9	2784.5
52.5°	5638.5	5035.2	3383.9	2459.6	2270.1	2293.3	2378.4	2467.3	2513.8	2517.6	2556.3
55°	5746.8	5070.0	3233.1	2320.4	2158.0	2161.8	2208.2	2277.8	2297.2	2281.7	2308.8
57.5°	5808.7	5050.7	3066.8	2177.3	2041.9	2026.5	2061.3	2096.1	2100.0	2061.3	2088.3
60°	5824.2	4961.8	2850.2	2034.2	1925.9	1883.4	1895.0	1887.2	1879.5	1864.0	1887.2
62.5°	5746.8	4772.3	2610.4	1895.0	1802.2	1736.4	1732.6	1728.7	1740.3	1744.2	1748.0
65°	5464.5	4416.5	2324.3	1751.9	1670.7	1581.7	1577.9	1624.3	1639.7	1616.5	1624.3
67.5°	4919.2	3871.2	2011.0	1585.6	1504.4	1427.0	1458.0	1485.0	1512.1	1504.4	1512.1
70°	4145.8	3178.9	1724.8	1400.0	1322.6	1280.1	1314.9	1338.1	1342.0	1334.2	1342.0
72.5°	3260.1	2482.8	1458.0	1210.5	1140.9	1121.5	1164.1	1183.4	1218.2	1233.7	1237.5
75°	2355.2	1833.1	1195.0	1005.5	947.5	947.5	986.2	1021.0	1051.9	1032.6	1021.0
77.5°	1314.9	1094.4	858.5	692.2	703.9	758.0	773.5	812.1	843.1	839.2	831.5
80°	796.7	684.5	580.1	448.6	444.7	487.3	587.8	653.6	669.0	634.2	630.4
82.5°	413.8	359.7	309.4	251.4	278.4	324.9	340.3	409.9	452.5	437.0	456.3
85°	104.4	100.6	112.2	116.0	143.1	158.6	174.0	205.0	135.4	65.7	65.7
87.5°	30.9	30.9	38.7	38.7	50.3	61.9	58.0	58.0	30.9	3.9	0.0
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)