

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: P840981

Luminaire Tested: **ARCH4-110-750-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840981
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: ARCH4-110-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19575 lumens
Efficiency: N/A
Efficacy: 173.8 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): 112.6
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



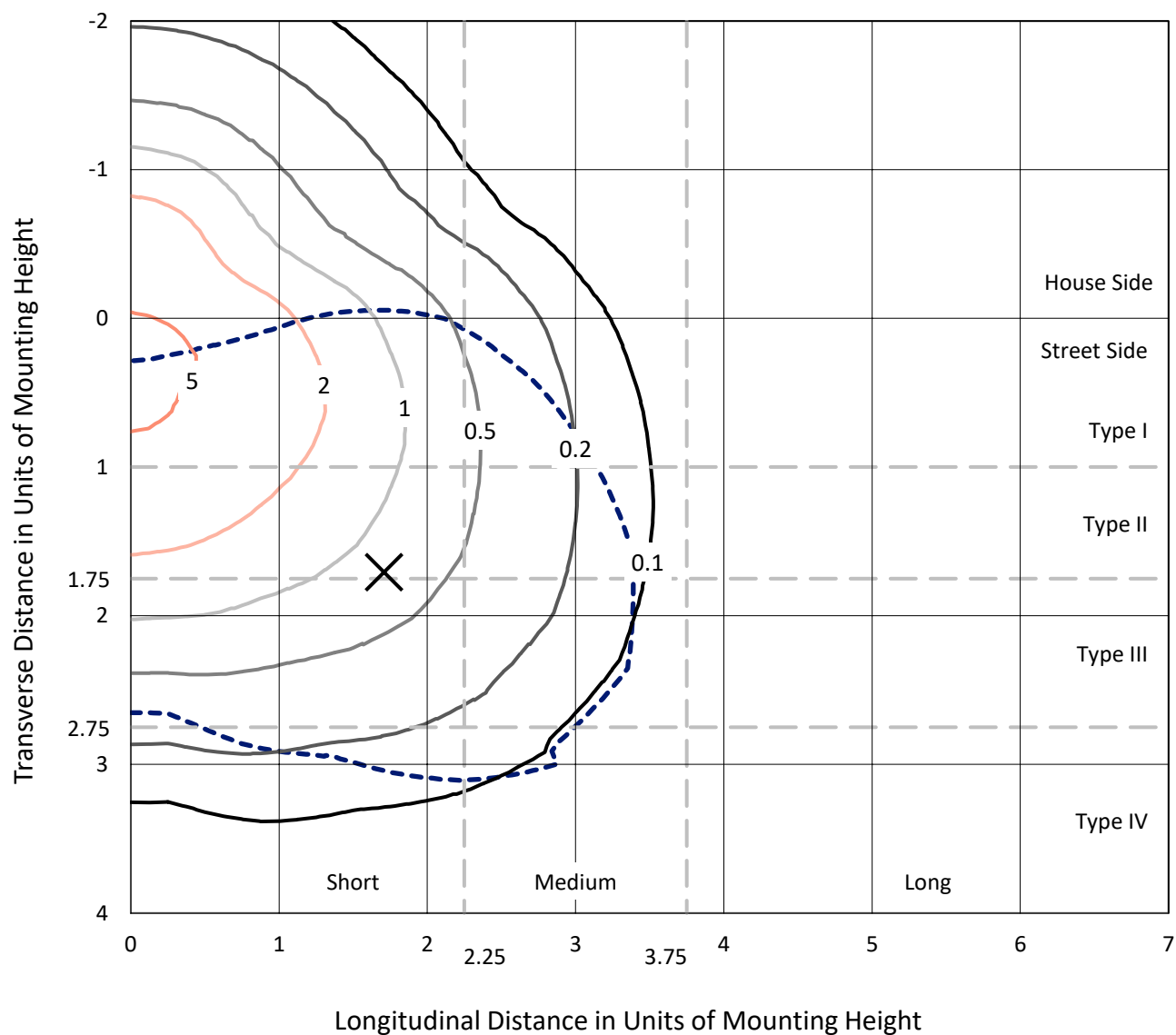
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

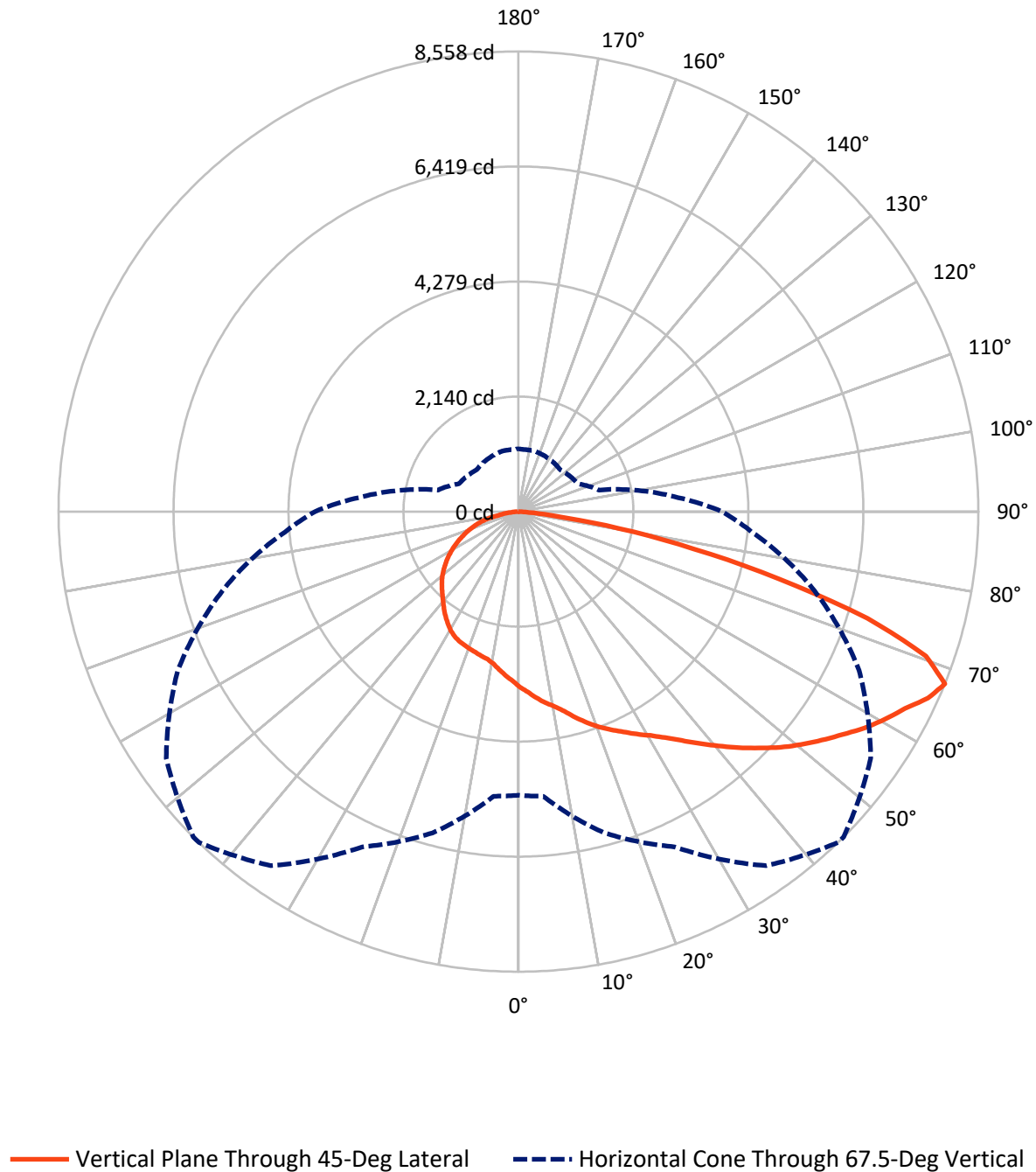


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

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	5229.5	0.0	5229.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	14345.5	0.0	14345.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	19575.0	0.0	19575.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.6	1.6
10°-20°	965.6	4.9
20°-30°	1666.7	8.5
30°-40°	2457.9	12.6
40°-50°	3329.9	17.0
50°-60°	4070.0	20.8
60°-70°	4197.6	21.4
70°-80°	2299.1	11.7
80°-90°	275.6	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°	19575.0	100.0
0°-180°	19575.0	100.0

Coefficient of Utilization



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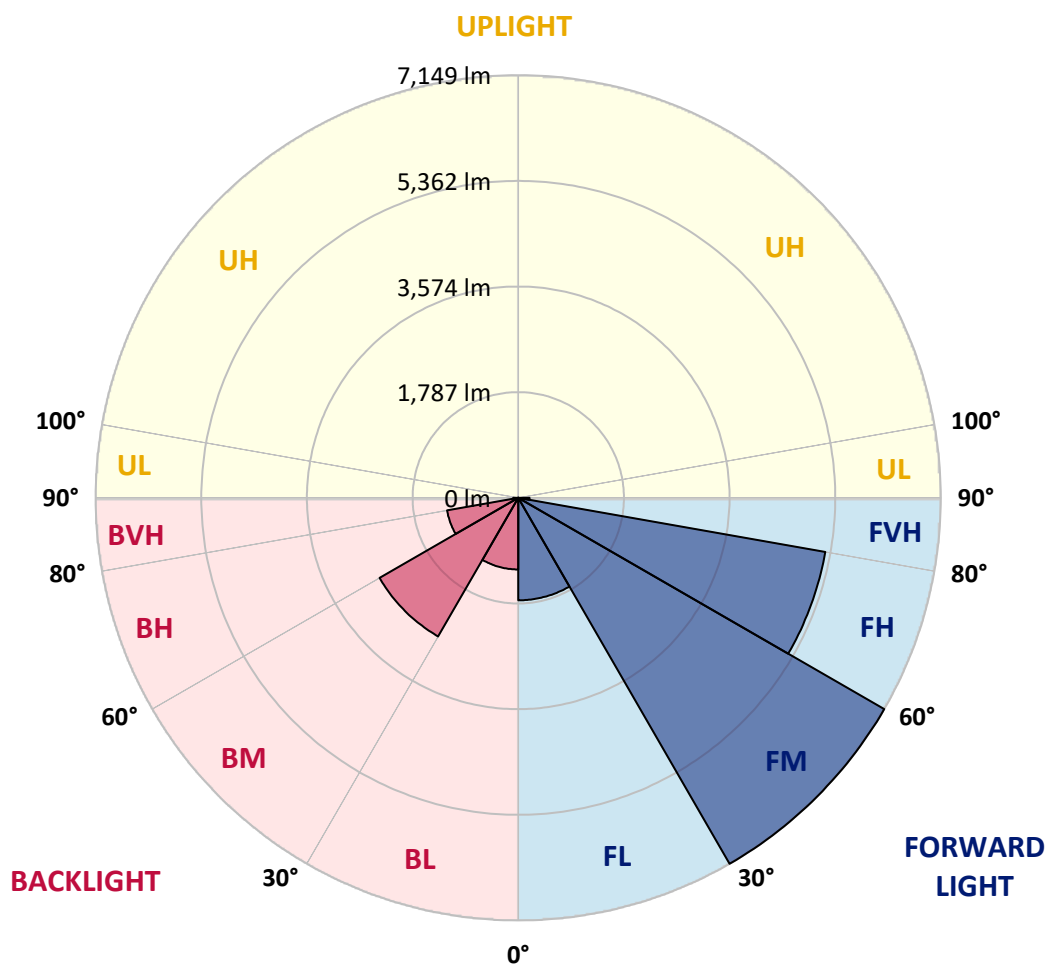
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1732.9	8.9			
FM	(30°-60°)	7149.0	36.5			
FH	(60°-80°)	5273.8	26.9			G3/7500
FVH	(80°-90°)	189.8	1.0			G2/225
BL	(0°-30°)	1212.0	6.2	B3/2500		
BM	(30°-60°)	2708.8	13.8	B3/5000		
BH	(60°-80°)	1222.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	85.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7
2.5°	3407.7	3404.7	3410.7	3389.8	3363.0	3360.1	3360.1	3342.2	3321.3	3279.6	3246.9
5°	3568.6	3562.6	3565.6	3535.8	3500.1	3482.2	3479.2	3440.5	3392.8	3327.3	3267.7
7.5°	3717.5	3711.6	3708.6	3675.8	3622.2	3592.4	3589.4	3532.8	3476.2	3375.0	3288.6
10°	3857.5	3851.6	3845.6	3800.9	3735.4	3690.7	3684.7	3613.3	3541.8	3416.7	3306.4
12.5°	4036.2	4024.3	4018.4	3964.8	3869.4	3821.8	3812.8	3717.5	3628.1	3476.2	3342.2
15°	4223.9	4215.0	4206.0	4155.4	4048.2	3985.6	3970.7	3851.6	3729.4	3553.7	3395.8
17.5°	4363.9	4355.0	4355.0	4310.3	4212.0	4140.5	4128.6	3985.6	3833.7	3625.2	3437.5
20°	4450.3	4441.4	4450.3	4423.5	4349.0	4289.4	4277.5	4119.6	3937.9	3690.7	3473.3
22.5°	4512.8	4503.9	4518.8	4506.9	4453.3	4417.5	4408.6	4253.7	4045.2	3759.2	3509.0
25°	4623.1	4623.1	4623.1	4602.2	4551.6	4539.7	4539.7	4405.6	4182.2	3848.6	3562.6
27.5°	4843.5	4831.6	4816.7	4757.1	4670.7	4667.7	4685.6	4560.5	4340.1	3964.8	3628.1
30°	5168.2	5162.2	5105.6	4980.5	4834.6	4819.7	4831.6	4727.3	4509.9	4086.9	3702.6
32.5°	5588.2	5567.3	5451.2	5263.5	5055.0	4986.5	5010.3	4900.1	4688.6	4212.0	3774.1
35°	5886.1	5892.0	5808.6	5638.8	5391.6	5209.9	5227.8	5093.7	4882.2	4352.0	3863.5
37.5°	6228.6	6249.5	6124.4	5996.3	5766.9	5457.1	5475.0	5293.3	5075.8	4527.7	3958.8
40°	6702.2	6660.5	6449.1	6297.1	6043.9	5716.3	5731.2	5516.7	5299.2	4694.6	4069.0
42.5°	7098.4	7024.0	6767.8	6574.2	6270.3	5990.3	6005.2	5758.0	5525.6	4879.2	4191.1
45°	7667.4	7461.8	7092.5	6997.1	6502.7	6258.4	6273.3	6014.1	5763.9	5075.8	4322.2
47.5°	7998.0	7670.3	7435.0	7384.4	6758.8	6535.4	6553.3	6285.2	6020.1	5299.2	4459.2
50°	7977.2	7765.7	7697.2	7572.0	6985.2	6794.6	6812.5	6565.2	6279.3	5519.7	4590.3
52.5°	7840.1	7878.9	7843.1	7634.6	7211.6	7044.8	7065.7	6842.2	6544.4	5725.2	4712.4
55°	8051.6	8078.4	8009.9	7735.9	7461.8	7295.0	7318.9	7134.2	6806.5	5906.9	4816.7
57.5°	8304.8	8209.5	8141.0	7914.6	7721.0	7566.1	7592.9	7432.0	7032.9	6052.9	4897.1
60°	8292.9	8093.3	8161.8	7926.5	7896.7	7816.3	7840.1	7676.3	7205.7	6160.1	4929.9
62.5°	7682.3	7575.0	7920.6	7840.1	8039.7	8039.7	8069.5	7825.2	7309.9	6204.8	4912.0
65°	6621.8	6627.8	7235.4	7569.1	8209.5	8346.5	8370.4	7917.6	7250.3	6073.7	4745.2
67.5°	5275.4	5314.1	6186.9	6881.0	8039.7	8555.0	8558.0	8001.0	6994.2	5704.4	4357.9
70°	3860.5	3890.3	4920.9	5763.9	7238.4	8093.3	8045.7	7765.7	6437.1	5060.9	3753.3
72.5°	2609.4	2636.2	3696.7	4426.5	5939.7	6892.9	6788.6	6863.1	5486.9	4158.4	3017.5
75°	1754.5	1787.3	2630.3	3166.4	4369.9	5233.7	5001.4	5198.0	4244.8	3148.6	2201.3
77.5°	1105.1	1126.0	1671.1	2076.2	2984.7	3562.6	3330.3	3333.3	2445.6	1694.9	1182.6
80°	703.0	708.9	1012.8	1197.5	1727.7	2141.7	1894.5	1540.0	1102.1	899.6	706.0
82.5°	408.1	399.2	604.7	676.2	822.1	813.2	673.2	637.5	482.6	449.8	360.4
85°	163.8	151.9	265.1	247.2	250.2	265.1	196.6	196.6	157.9	122.1	89.4
87.5°	32.8	32.8	35.7	32.8	32.8	35.7	26.8	26.8	23.8	23.8	23.8
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°	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7
2.5°	3240.9	3235.0	3220.1	3181.3	3160.5	3148.6	3130.7	3124.7	3121.8	3124.7	3133.7
5°	3249.8	3229.0	3187.3	3124.7	3083.0	3056.2	3026.4	3014.5	3005.6	3005.6	3014.5
7.5°	3255.8	3223.0	3151.5	3059.2	2999.6	2957.9	2922.2	2907.3	2904.3	2913.2	2916.2
10°	3258.8	3211.1	3109.8	2993.7	2916.2	2862.6	2826.9	2817.9	2826.9	2844.7	2847.7
12.5°	3279.6	3214.1	3086.0	2949.0	2856.6	2803.0	2776.2	2776.2	2800.0	2832.8	2835.8
15°	3315.4	3235.0	3074.1	2913.2	2817.9	2770.3	2761.3	2776.2	2812.0	2862.6	2868.6
17.5°	3342.2	3246.9	3047.3	2865.6	2767.3	2737.5	2752.4	2788.1	2838.8	2907.3	2913.2
20°	3360.1	3246.9	3008.6	2809.0	2716.6	2710.7	2752.4	2809.0	2862.6	2943.0	2952.0
22.5°	3377.9	3240.9	2963.9	2740.5	2660.0	2677.9	2755.4	2826.9	2880.5	2966.9	2981.8
25°	3410.7	3249.8	2919.2	2672.0	2600.5	2651.1	2752.4	2838.8	2895.4	2984.7	3008.6
27.5°	3455.4	3270.7	2886.4	2609.4	2540.9	2609.4	2731.5	2835.8	2895.4	2981.8	3008.6
30°	3503.0	3294.5	2847.7	2540.9	2472.4	2549.8	2686.9	2803.0	2871.5	2952.0	2984.7
32.5°	3553.7	3321.3	2814.9	2466.4	2389.0	2469.4	2621.3	2752.4	2826.9	2901.3	2937.1
35°	3622.2	3369.0	2797.1	2406.9	2314.5	2386.0	2537.9	2686.9	2767.3	2835.8	2877.5
37.5°	3705.6	3428.6	2788.1	2347.3	2234.1	2293.7	2448.6	2606.4	2692.8	2749.4	2788.1
40°	3800.9	3503.0	2785.2	2290.7	2153.7	2198.3	2356.2	2514.1	2597.5	2642.2	2674.9
42.5°	3908.2	3586.4	2779.2	2234.1	2073.2	2109.0	2266.8	2421.7	2493.2	2532.0	2561.7
45°	4021.3	3669.9	2767.3	2165.6	1986.8	2028.5	2174.5	2311.5	2386.0	2418.8	2451.5
47.5°	4134.5	3753.3	2743.5	2088.1	1909.4	1948.1	2076.2	2195.4	2254.9	2284.7	2317.5
50°	4244.8	3827.7	2686.9	1998.8	1829.0	1864.7	1963.0	2043.4	2088.1	2112.0	2144.7
52.5°	4343.1	3878.4	2606.4	1894.5	1748.5	1766.4	1831.9	1900.5	1936.2	1939.2	1969.0
55°	4426.5	3905.2	2490.3	1787.3	1662.2	1665.1	1700.9	1754.5	1769.4	1757.5	1778.3
57.5°	4474.1	3890.3	2362.2	1677.1	1572.8	1560.9	1587.7	1614.5	1617.5	1587.7	1608.5
60°	4486.0	3821.8	2195.4	1566.8	1483.4	1450.7	1459.6	1453.6	1447.7	1435.8	1453.6
62.5°	4426.5	3675.8	2010.7	1459.6	1388.1	1337.5	1334.5	1331.5	1340.4	1343.4	1346.4
65°	4209.0	3401.8	1790.2	1349.4	1286.8	1218.3	1215.3	1251.1	1263.0	1245.1	1251.1
67.5°	3789.0	2981.8	1549.0	1221.3	1158.7	1099.2	1123.0	1143.9	1164.7	1158.7	1164.7
70°	3193.2	2448.6	1328.5	1078.3	1018.7	986.0	1012.8	1030.7	1033.6	1027.7	1033.6
72.5°	2511.1	1912.4	1123.0	932.4	878.7	863.8	896.6	911.5	938.3	950.2	953.2
75°	1814.1	1411.9	920.4	774.5	729.8	729.8	759.6	786.4	810.2	795.3	786.4
77.5°	1012.8	843.0	661.3	533.2	542.1	583.8	595.8	625.5	649.4	646.4	640.4
80°	613.6	527.2	446.8	345.5	342.6	375.3	452.8	503.4	515.3	488.5	485.5
82.5°	318.7	277.0	238.3	193.6	214.5	250.2	262.1	315.8	348.5	336.6	351.5
85°	80.4	77.4	86.4	89.4	110.2	122.1	134.0	157.9	104.3	50.6	50.6
87.5°	23.8	23.8	29.8	29.8	38.7	47.7	44.7	44.7	23.8	3.0	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)