

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: P836070

Luminaire Tested: **ARCH3-130-750-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19845 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 132.6
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



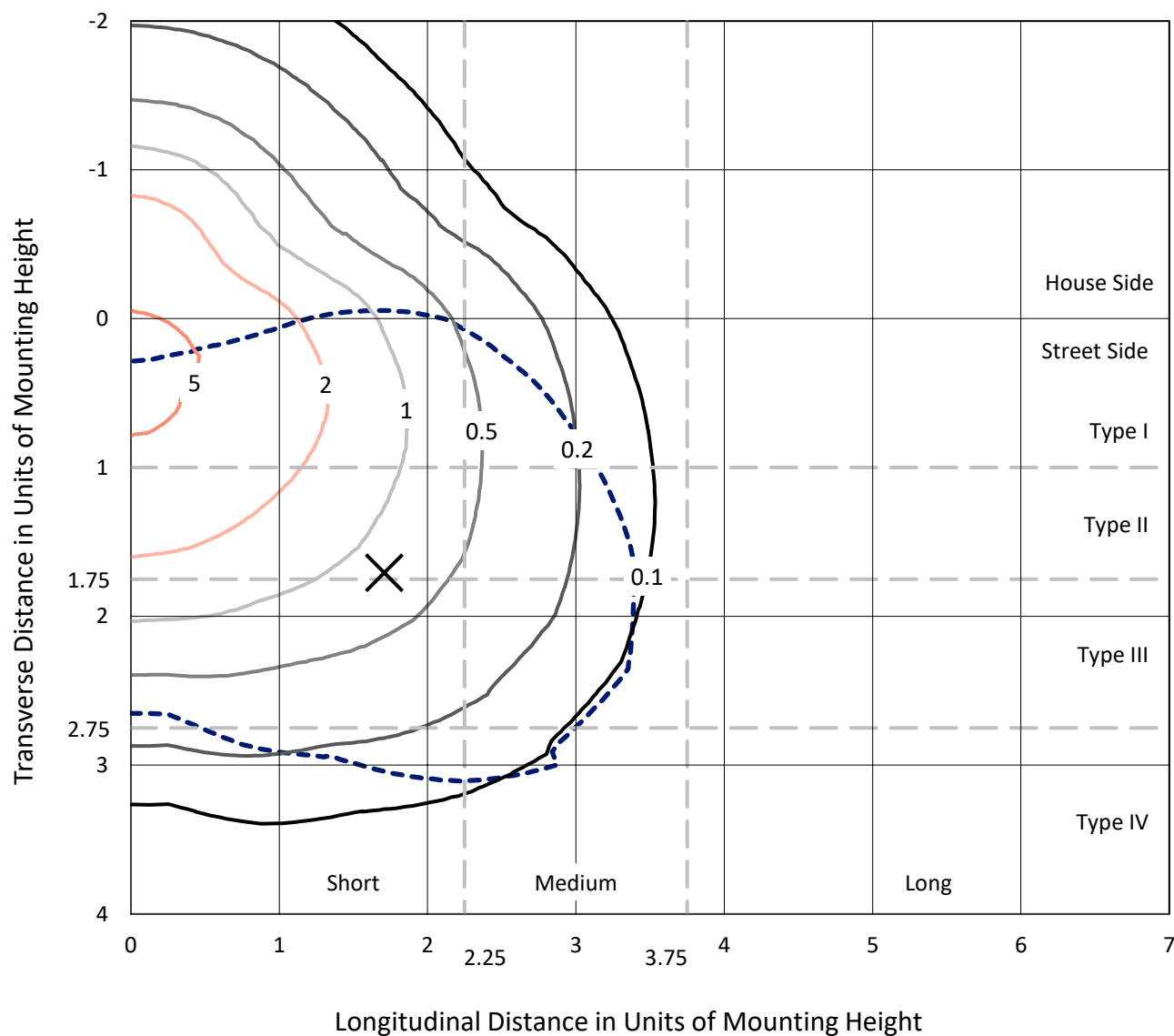
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

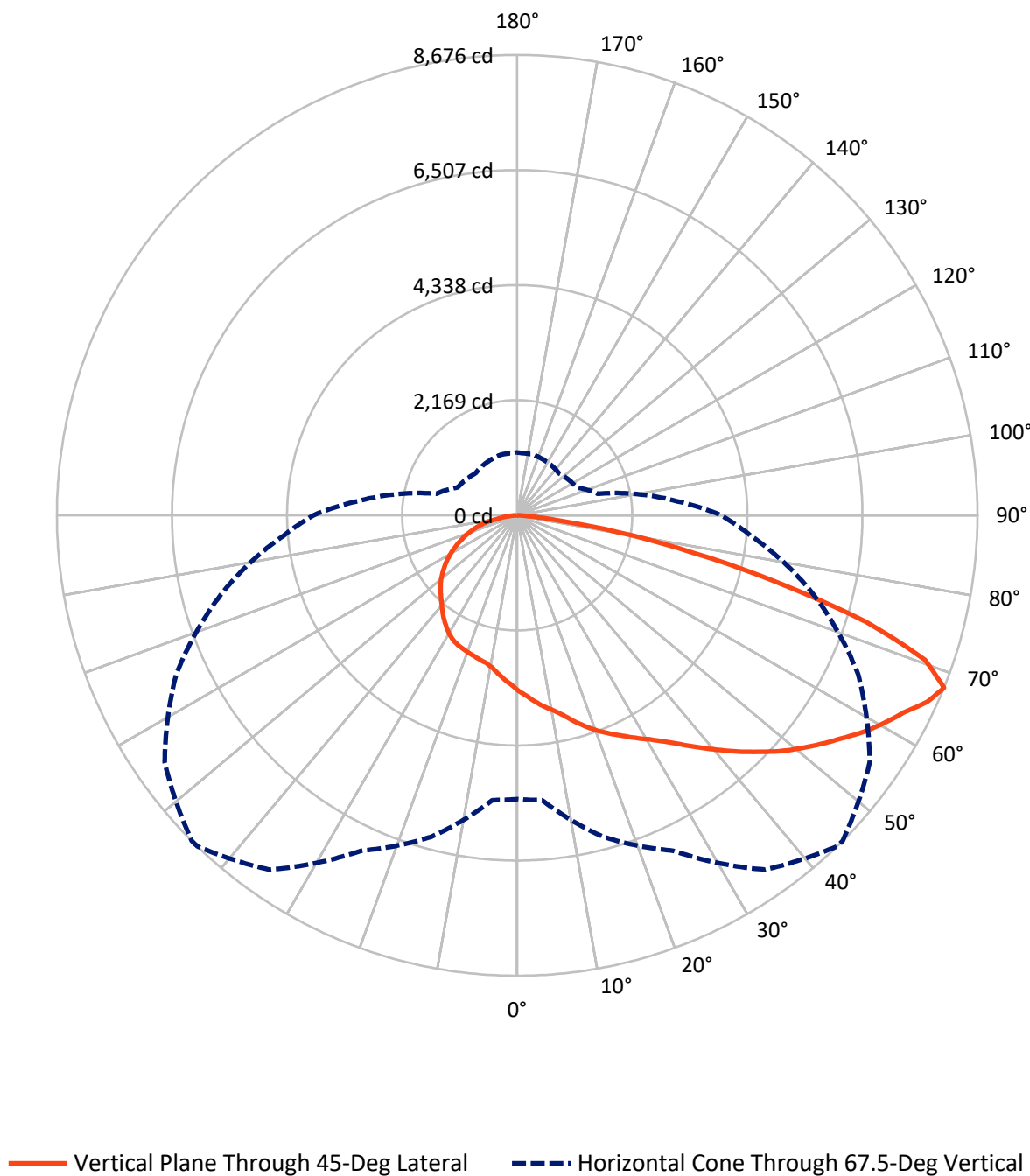


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

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	5301.6	0.0	5301.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	14543.4	0.0	14543.4
	% Fixture	73.3	0.0	73.3
Total	Lumens	19845.0	0.0	19845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.9	1.6
10°-20°	978.9	4.9
20°-30°	1689.7	8.5
30°-40°	2491.8	12.6
40°-50°	3375.9	17.0
50°-60°	4126.1	20.8
60°-70°	4255.5	21.4
70°-80°	2330.9	11.7
80°-90°	279.4	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°	19845.0	100.0
0°-180°	19845.0	100.0

Coefficient of Utilization



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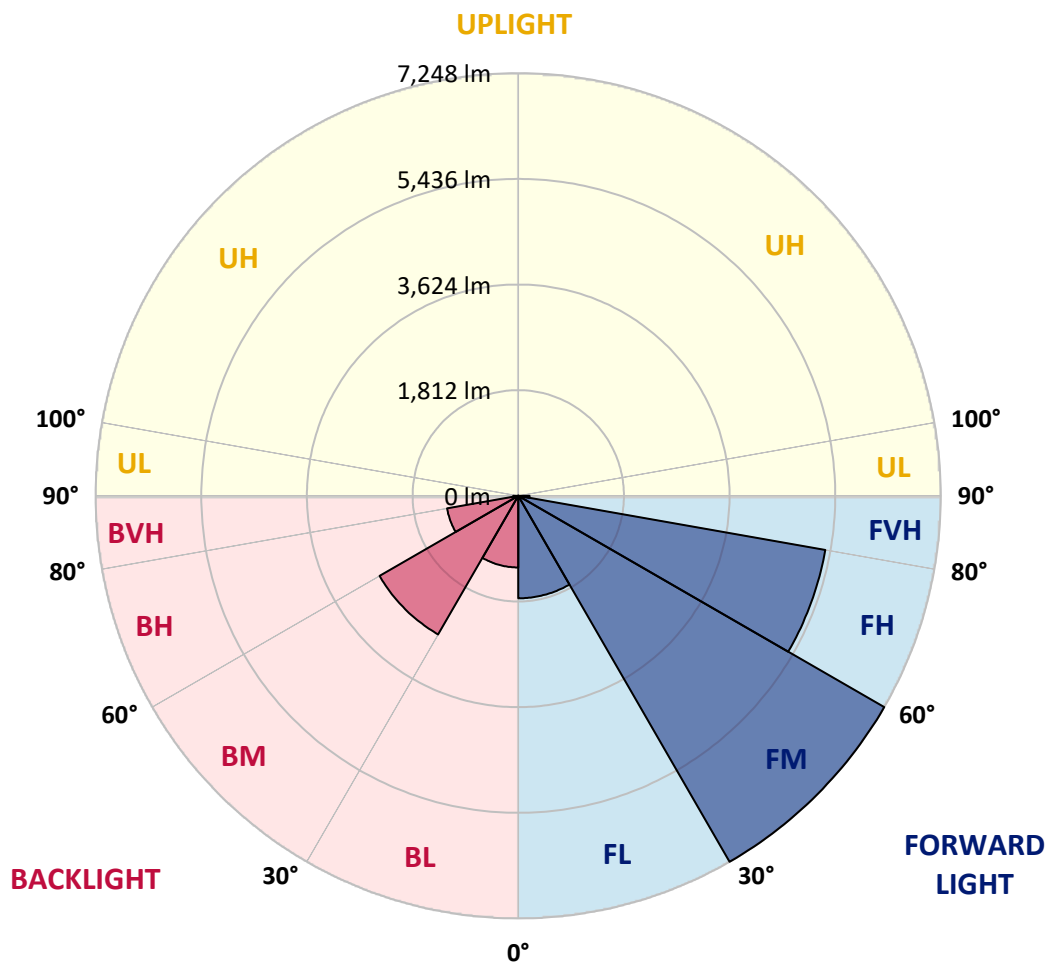
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1756.8	8.9			
FM	(30°-60°)	7247.6	36.5			
FH	(60°-80°)	5346.5	26.9			G3/7500
FVH	(80°-90°)	192.5	1.0			G2/225
BL	(0°-30°)	1228.7	6.2	B3/2500		
BM	(30°-60°)	2746.1	13.8	B3/5000		
BH	(60°-80°)	1239.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	86.9	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°	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8
2.5°	3454.7	3451.7	3457.7	3436.6	3409.4	3406.4	3406.4	3388.3	3367.1	3324.9	3291.7
5°	3617.8	3611.8	3614.8	3584.6	3548.3	3530.2	3527.2	3487.9	3439.6	3373.2	3312.8
7.5°	3768.8	3762.7	3759.7	3726.5	3672.2	3642.0	3638.9	3581.6	3524.2	3421.5	3333.9
10°	3910.7	3904.7	3898.6	3853.3	3786.9	3741.6	3735.6	3663.1	3590.6	3463.8	3352.0
12.5°	4091.9	4079.8	4073.8	4019.4	3922.8	3874.5	3865.4	3768.8	3678.2	3524.2	3388.3
15°	4282.2	4273.1	4264.0	4212.7	4104.0	4040.6	4025.5	3904.7	3780.9	3602.7	3442.6
17.5°	4424.1	4415.0	4415.0	4369.7	4270.1	4197.6	4185.5	4040.6	3886.6	3675.2	3484.9
20°	4511.7	4502.6	4511.7	4484.5	4409.0	4348.6	4336.5	4176.5	3992.3	3741.6	3521.2
22.5°	4575.1	4566.0	4581.1	4569.1	4514.7	4478.5	4469.4	4312.4	4101.0	3811.1	3557.4
25°	4686.8	4686.8	4686.8	4665.7	4614.4	4602.3	4602.3	4466.4	4239.9	3901.7	3611.8
27.5°	4910.3	4898.2	4883.1	4822.7	4735.1	4732.1	4750.2	4623.4	4399.9	4019.4	3678.2
30°	5239.5	5233.4	5176.0	5049.2	4901.2	4886.1	4898.2	4792.5	4572.1	4143.3	3753.7
32.5°	5665.3	5644.1	5526.3	5336.1	5124.7	5055.3	5079.4	4967.7	4753.3	4270.1	3826.2
35°	5967.2	5973.3	5888.7	5716.6	5466.0	5281.7	5299.9	5164.0	4949.6	4412.0	3916.8
37.5°	6314.5	6335.7	6208.8	6079.0	5846.5	5532.4	5550.5	5366.3	5145.8	4590.2	4013.4
40°	6794.7	6752.4	6538.0	6384.0	6127.3	5795.1	5810.2	5592.8	5372.3	4759.3	4125.1
42.5°	7196.3	7120.8	6861.1	6664.8	6356.8	6072.9	6088.0	5837.4	5601.8	4946.5	4248.9
45°	7773.1	7564.8	7190.3	7093.7	6592.4	6344.7	6359.8	6097.1	5843.4	5145.8	4381.8
47.5°	8108.3	7776.1	7537.6	7486.2	6852.1	6625.6	6643.7	6371.9	6103.1	5372.3	4520.7
50°	8087.2	7872.8	7803.3	7676.5	7081.6	6888.3	6906.4	6655.8	6365.9	5595.8	4653.6
52.5°	7948.3	7987.5	7951.3	7739.9	7311.1	7142.0	7163.1	6936.6	6634.6	5804.2	4777.4
55°	8162.7	8189.9	8120.4	7842.6	7564.8	7395.6	7419.8	7232.6	6900.4	5988.4	4883.1
57.5°	8419.4	8322.7	8253.3	8023.8	7827.5	7670.5	7697.6	7534.6	7129.9	6136.4	4964.7
60°	8407.3	8205.0	8274.4	8035.9	8005.7	7924.1	7948.3	7782.2	7305.0	6245.1	4997.9
62.5°	7788.2	7679.5	8029.8	7948.3	8150.6	8150.6	8180.8	7933.2	7410.7	6290.4	4979.8
65°	6713.2	6719.2	7335.2	7673.5	8322.7	8461.7	8485.8	8026.8	7350.3	6157.5	4810.6
67.5°	5348.2	5387.4	6272.3	6975.9	8150.6	8673.0	8676.1	8111.4	7090.6	5783.0	4418.1
70°	3913.7	3943.9	4988.8	5843.4	7338.3	8205.0	8156.6	7872.8	6525.9	5130.7	3805.0
72.5°	2645.4	2672.6	3747.6	4487.5	6021.6	6988.0	6882.3	6957.8	5562.6	4215.7	3059.1
75°	1778.7	1811.9	2666.5	3210.1	4430.1	5305.9	5070.3	5269.7	4303.3	3192.0	2231.7
77.5°	1120.4	1141.5	1694.1	2104.8	3025.9	3611.8	3376.2	3379.2	2479.3	1718.3	1198.9
80°	712.7	718.7	1026.8	1214.0	1751.5	2171.3	1920.6	1561.3	1117.3	912.0	715.7
82.5°	413.7	404.7	613.0	685.5	833.5	824.4	682.5	646.3	489.2	456.0	365.4
85°	166.1	154.0	268.8	250.6	253.7	268.8	199.3	199.3	160.1	123.8	90.6
87.5°	33.2	33.2	36.2	33.2	33.2	36.2	27.2	27.2	24.2	24.2	24.2
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°	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8	3309.8
2.5°	3285.6	3279.6	3264.5	3225.2	3204.1	3192.0	3173.9	3167.8	3164.8	3167.8	3176.9
5°	3294.7	3273.5	3231.3	3167.8	3125.6	3098.4	3068.2	3056.1	3047.0	3047.0	3056.1
7.5°	3300.7	3267.5	3195.0	3101.4	3041.0	2998.7	2962.5	2947.4	2944.4	2953.4	2956.4
10°	3303.7	3255.4	3152.7	3035.0	2956.4	2902.1	2865.8	2856.8	2865.8	2884.0	2887.0
12.5°	3324.9	3258.4	3128.6	2989.7	2896.0	2841.7	2814.5	2814.5	2838.7	2871.9	2874.9
15°	3361.1	3279.6	3116.5	2953.4	2856.8	2808.5	2799.4	2814.5	2850.8	2902.1	2908.1
17.5°	3388.3	3291.7	3089.3	2905.1	2805.5	2775.3	2790.4	2826.6	2877.9	2947.4	2953.4
20°	3406.4	3291.7	3050.1	2847.7	2754.1	2748.1	2790.4	2847.7	2902.1	2983.6	2992.7
22.5°	3424.5	3285.6	3004.8	2778.3	2696.7	2714.9	2793.4	2865.8	2920.2	3007.8	3022.9
25°	3457.7	3294.7	2959.5	2708.8	2636.3	2687.7	2790.4	2877.9	2935.3	3025.9	3050.1
27.5°	3503.0	3315.8	2926.2	2645.4	2575.9	2645.4	2769.2	2874.9	2935.3	3022.9	3050.1
30°	3551.4	3340.0	2887.0	2575.9	2506.5	2585.0	2723.9	2841.7	2911.1	2992.7	3025.9
32.5°	3602.7	3367.1	2853.8	2500.4	2421.9	2503.5	2657.5	2790.4	2865.8	2941.3	2977.6
35°	3672.2	3415.5	2835.7	2440.0	2346.4	2418.9	2572.9	2723.9	2805.5	2874.9	2917.2
37.5°	3756.7	3475.9	2826.6	2379.7	2264.9	2325.3	2482.3	2642.4	2730.0	2787.3	2826.6
40°	3853.3	3551.4	2823.6	2322.3	2183.4	2228.7	2388.7	2548.8	2633.3	2678.6	2711.8
42.5°	3962.1	3635.9	2817.5	2264.9	2101.8	2138.1	2298.1	2455.1	2527.6	2566.9	2597.1
45°	4076.8	3720.5	2805.5	2195.4	2014.2	2056.5	2204.5	2343.4	2418.9	2452.1	2485.3
47.5°	4191.6	3805.0	2781.3	2116.9	1935.7	1975.0	2104.8	2225.6	2286.0	2316.2	2349.5
50°	4303.3	3880.5	2723.9	2026.3	1854.2	1890.4	1990.1	2071.6	2116.9	2141.1	2174.3
52.5°	4403.0	3931.9	2642.4	1920.6	1772.7	1790.8	1857.2	1926.7	1962.9	1965.9	1996.1
55°	4487.5	3959.0	2524.6	1811.9	1685.1	1688.1	1724.3	1778.7	1793.8	1781.7	1802.9
57.5°	4535.8	3943.9	2394.8	1700.2	1594.5	1582.4	1609.6	1636.8	1639.8	1609.6	1630.7
60°	4547.9	3874.5	2225.6	1588.4	1503.9	1470.7	1479.7	1473.7	1467.7	1455.6	1473.7
62.5°	4487.5	3726.5	2038.4	1479.7	1407.3	1355.9	1352.9	1349.9	1358.9	1362.0	1365.0
65°	4267.1	3448.7	1814.9	1368.0	1304.6	1235.1	1232.1	1268.3	1280.4	1262.3	1268.3
67.5°	3841.3	3022.9	1570.3	1238.1	1174.7	1114.3	1138.5	1159.6	1180.8	1174.7	1180.8
70°	3237.3	2482.3	1346.9	1093.2	1032.8	999.6	1026.8	1044.9	1047.9	1041.9	1047.9
72.5°	2545.7	1938.8	1138.5	945.2	890.9	875.8	909.0	924.1	951.3	963.3	966.4
75°	1839.1	1431.4	933.1	785.2	739.9	739.9	770.1	797.2	821.4	806.3	797.2
77.5°	1026.8	854.6	670.4	540.6	549.6	591.9	604.0	634.2	658.3	655.3	649.3
80°	622.1	534.5	453.0	350.3	347.3	380.5	459.0	510.4	522.4	495.3	492.2
82.5°	323.1	280.8	241.6	196.3	217.4	253.7	265.7	320.1	353.3	341.2	356.3
85°	81.5	78.5	87.6	90.6	111.7	123.8	135.9	160.1	105.7	51.3	51.3
87.5°	24.2	24.2	30.2	30.2	39.3	48.3	45.3	45.3	24.2	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)