

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: P835917

Luminaire Tested: **ARCH3-110-740-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835917
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: ARCH3-110-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17419 lumens
Efficiency: N/A
Efficacy: 155.7 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): 111.9
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

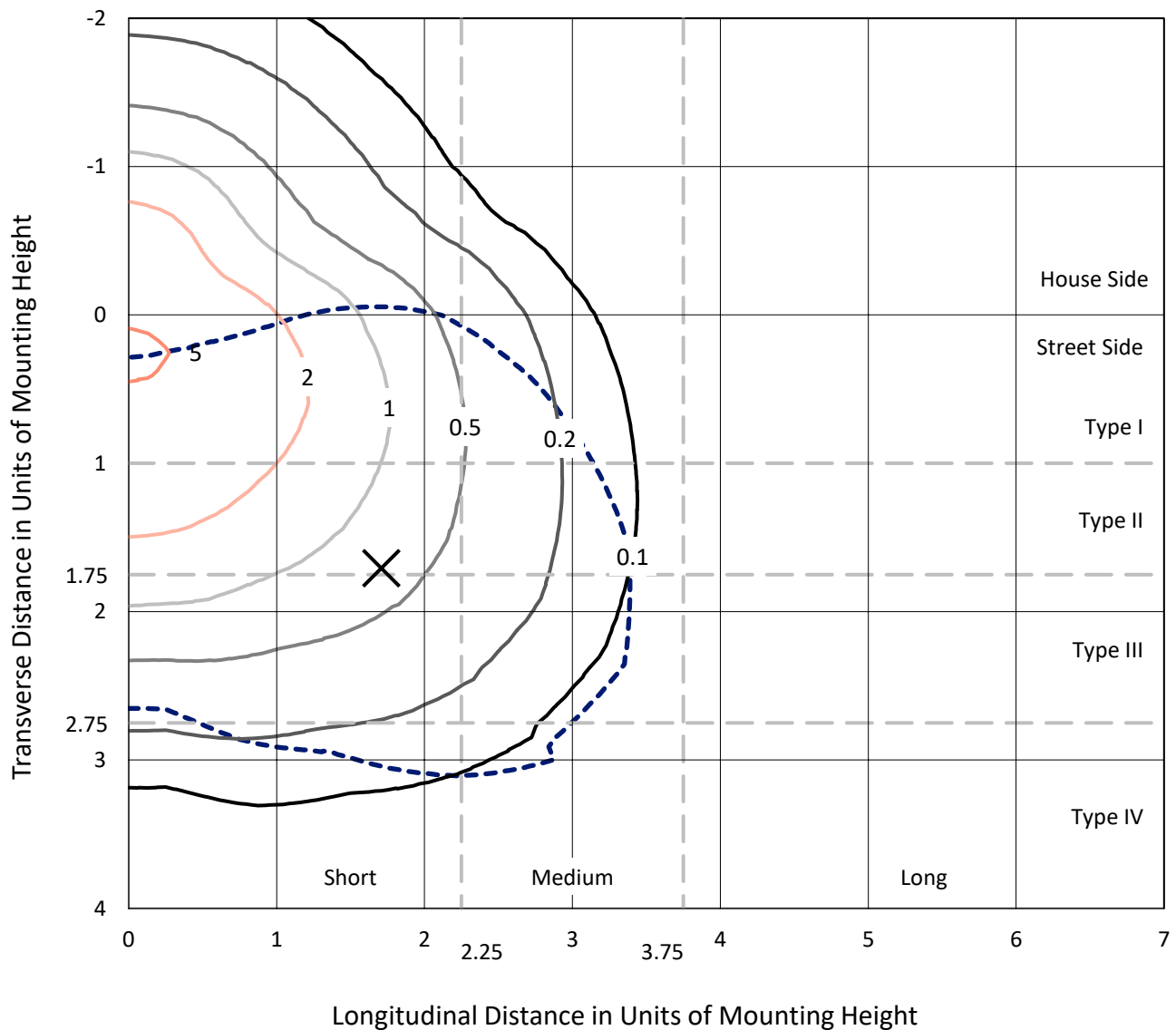


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Iso-Footcandle Lines of Horizontal Illumination

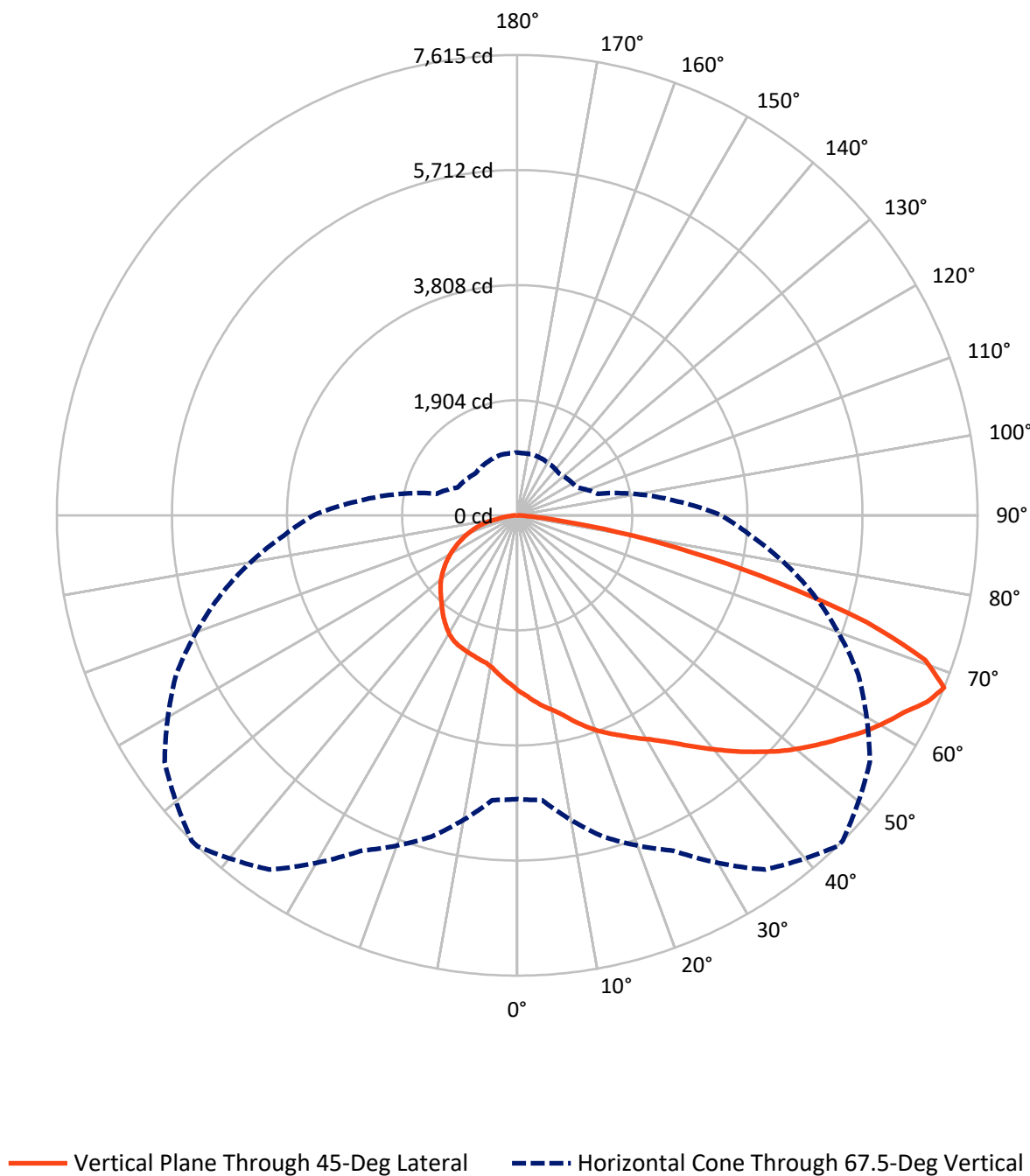
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	4653.5	0.0	4653.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	12765.5	0.0	12765.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	17419.0	0.0	17419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.2	1.6
10°-20°	859.2	4.9
20°-30°	1483.2	8.5
30°-40°	2187.2	12.6
40°-50°	2963.2	17.0
50°-60°	3621.7	20.8
60°-70°	3735.3	21.4
70°-80°	2045.9	11.7
80°-90°	245.2	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°	17419.0	100.0
0°-180°	17419.0	100.0

Coefficient of Utilization



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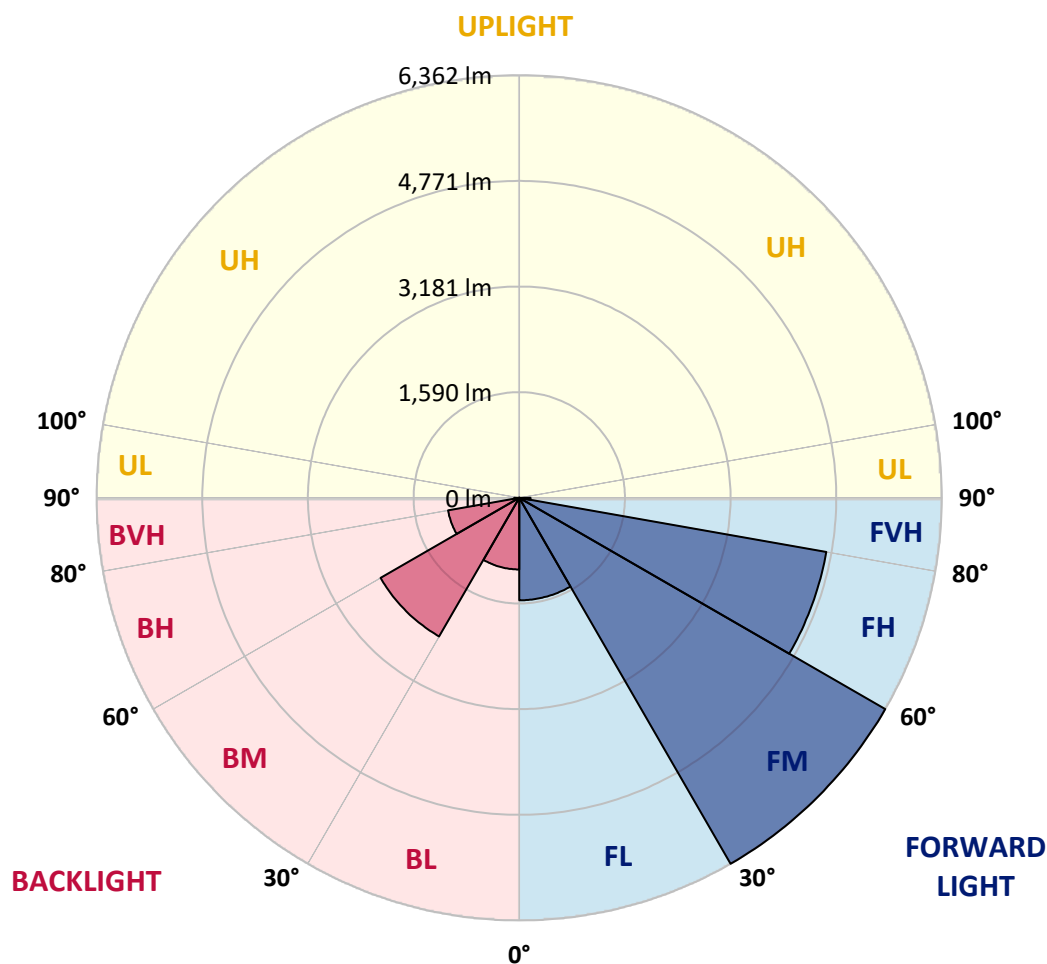
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1542.1	8.9			
FM	(30°-60°)	6361.6	36.5			
FH	(60°-80°)	4692.9	26.9			G2/5000
FVH	(80°-90°)	168.9	1.0			G2/225
BL	(0°-30°)	1078.5	6.2	B3/2500		
BM	(30°-60°)	2410.4	13.8	B2/2500		
BH	(60°-80°)	1088.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	76.3	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2905.2	2905.2	2905.2	2905.2	2905.2	2905.2	2905.2	2905.2	2905.2	2905.2	2905.2
2.5°	3032.4	3029.7	3035.0	3016.5	2992.6	2990.0	2990.0	2974.1	2955.5	2918.4	2889.3
5°	3175.5	3170.2	3172.9	3146.4	3114.6	3098.7	3096.0	3061.5	3019.1	2960.8	2907.8
7.5°	3308.1	3302.8	3300.1	3271.0	3223.2	3196.7	3194.1	3143.7	3093.4	3003.2	2926.4
10°	3432.6	3427.3	3422.0	3382.3	3324.0	3284.2	3278.9	3215.3	3151.7	3040.3	2942.3
12.5°	3591.7	3581.1	3575.8	3528.1	3443.2	3400.8	3392.9	3308.1	3228.5	3093.4	2974.1
15°	3758.7	3750.7	3742.8	3697.7	3602.3	3546.6	3533.4	3427.3	3318.7	3162.3	3021.8
17.5°	3883.3	3875.3	3875.3	3835.6	3748.1	3684.5	3673.9	3546.6	3411.4	3225.9	3058.9
20°	3960.1	3952.2	3960.1	3936.3	3870.0	3817.0	3806.4	3665.9	3504.2	3284.2	3090.7
22.5°	4015.8	4007.8	4021.1	4010.5	3962.8	3931.0	3923.0	3785.2	3599.6	3345.2	3122.5
25°	4113.9	4113.9	4113.9	4095.3	4050.3	4039.7	4039.7	3920.4	3721.6	3424.7	3170.2
27.5°	4310.0	4299.4	4286.2	4233.2	4156.3	4153.6	4169.5	4058.2	3862.1	3528.1	3228.5
30°	4599.0	4593.6	4543.3	4432.0	4302.1	4288.8	4299.4	4206.6	4013.1	3636.7	3294.8
32.5°	4972.7	4954.1	4850.8	4683.8	4498.2	4437.3	4458.5	4360.4	4172.2	3748.1	3358.4
35°	5237.8	5243.1	5168.9	5017.8	4797.8	4636.1	4652.0	4532.7	4344.5	3872.7	3437.9
37.5°	5542.6	5561.2	5449.8	5335.8	5131.7	4856.1	4872.0	4710.3	4516.8	4029.1	3522.8
40°	5964.1	5926.9	5738.7	5603.6	5378.3	5086.7	5099.9	4909.1	4715.6	4177.5	3620.8
42.5°	6316.6	6250.3	6022.4	5850.1	5579.7	5330.5	5343.8	5123.8	4917.0	4341.8	3729.5
45°	6822.9	6640.0	6311.3	6226.5	5786.5	5569.1	5582.4	5351.7	5129.1	4516.8	3846.2
47.5°	7117.1	6825.5	6616.1	6571.1	6014.4	5815.6	5831.5	5593.0	5357.0	4715.6	3968.1
50°	7098.6	6910.4	6849.4	6738.1	6215.9	6046.2	6062.1	5842.1	5587.7	4911.7	4084.7
52.5°	6976.6	7011.1	6979.3	6793.7	6417.3	6268.9	6287.4	6088.6	5823.6	5094.6	4193.4
55°	7164.8	7188.7	7127.7	6883.8	6640.0	6491.5	6512.8	6348.4	6056.8	5256.3	4286.2
57.5°	7390.1	7305.3	7244.3	7042.9	6870.6	6732.8	6756.6	6613.5	6258.3	5386.2	4357.7
60°	7379.5	7201.9	7262.9	7053.5	7027.0	6955.4	6976.6	6830.8	6412.0	5481.6	4386.9
62.5°	6836.1	6740.7	7048.2	6976.6	7154.2	7154.2	7180.7	6963.4	6504.8	5521.4	4371.0
65°	5892.5	5897.8	6438.5	6735.4	7305.3	7427.2	7448.4	7045.5	6451.8	5404.8	4222.6
67.5°	4694.4	4728.8	5505.5	6123.1	7154.2	7612.8	7615.4	7119.8	6223.8	5076.1	3878.0
70°	3435.3	3461.8	4378.9	5129.1	6441.2	7201.9	7159.5	6910.4	5728.1	4503.5	3339.9
72.5°	2322.0	2345.9	3289.5	3938.9	5285.5	6133.7	6040.9	6107.2	4882.6	3700.4	2685.2
75°	1561.3	1590.4	2340.6	2817.7	3888.6	4657.3	4450.5	4625.5	3777.2	2801.8	1958.9
77.5°	983.4	1002.0	1487.0	1847.5	2656.0	3170.2	2963.5	2966.1	2176.2	1508.2	1052.3
80°	625.6	630.9	901.2	1065.6	1537.4	1905.8	1685.8	1370.4	980.8	800.5	628.2
82.5°	363.1	355.2	538.1	601.7	731.6	723.6	599.1	567.2	429.4	400.3	320.7
85°	145.8	135.2	235.9	220.0	222.7	235.9	174.9	174.9	140.5	108.7	79.5
87.5°	29.2	29.2	31.8	29.2	29.2	31.8	23.9	23.9	21.2	21.2	21.2
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°	2905.2	2905.2	2905.2	2905.2	2905.2	2905.2	2905.2	2905.2	2905.2	2905.2	2905.2
2.5°	2884.0	2878.7	2865.4	2830.9	2812.4	2801.8	2785.9	2780.6	2777.9	2780.6	2788.5
5°	2891.9	2873.4	2836.2	2780.6	2743.5	2719.6	2693.1	2682.5	2674.5	2674.5	2682.5
7.5°	2897.2	2868.0	2804.4	2722.3	2669.2	2632.1	2600.3	2587.1	2584.4	2592.4	2595.0
10°	2899.9	2857.4	2767.3	2663.9	2595.0	2547.3	2515.5	2507.6	2515.5	2531.4	2534.1
12.5°	2918.4	2860.1	2746.1	2624.2	2542.0	2494.3	2470.4	2470.4	2491.7	2520.8	2523.5
15°	2950.2	2878.7	2735.5	2592.4	2507.6	2465.1	2457.2	2470.4	2502.3	2547.3	2552.6
17.5°	2974.1	2889.3	2711.7	2550.0	2462.5	2436.0	2449.2	2481.0	2526.1	2587.1	2592.4
20°	2990.0	2889.3	2677.2	2499.6	2417.4	2412.1	2449.2	2499.6	2547.3	2618.9	2626.8
22.5°	3005.9	2884.0	2637.4	2438.6	2367.1	2383.0	2451.9	2515.5	2563.2	2640.1	2653.3
25°	3035.0	2891.9	2597.7	2377.7	2314.1	2359.1	2449.2	2526.1	2576.5	2656.0	2677.2
27.5°	3074.8	2910.5	2568.5	2322.0	2261.0	2322.0	2430.7	2523.5	2576.5	2653.3	2677.2
30°	3117.2	2931.7	2534.1	2261.0	2200.1	2269.0	2390.9	2494.3	2555.3	2626.8	2656.0
32.5°	3162.3	2955.5	2504.9	2194.8	2125.9	2197.4	2332.6	2449.2	2515.5	2581.8	2613.6
35°	3223.2	2997.9	2489.0	2141.8	2059.6	2123.2	2258.4	2390.9	2462.5	2523.5	2560.6
37.5°	3297.5	3050.9	2481.0	2088.7	1988.0	2041.0	2178.9	2319.4	2396.2	2446.6	2481.0
40°	3382.3	3117.2	2478.4	2038.4	1916.5	1956.2	2096.7	2237.2	2311.4	2351.2	2380.3
42.5°	3477.7	3191.4	2473.1	1988.0	1844.9	1876.7	2017.2	2155.0	2218.6	2253.1	2279.6
45°	3578.4	3265.7	2462.5	1927.1	1768.0	1805.1	1935.0	2056.9	2123.2	2152.4	2181.5
47.5°	3679.2	3339.9	2441.3	1858.1	1699.1	1733.6	1847.5	1953.6	2006.6	2033.1	2062.2
50°	3777.2	3406.1	2390.9	1778.6	1627.5	1659.3	1746.8	1818.4	1858.1	1879.3	1908.5
52.5°	3864.7	3451.2	2319.4	1685.8	1556.0	1571.9	1630.2	1691.1	1723.0	1725.6	1752.1
55°	3938.9	3475.1	2216.0	1590.4	1479.1	1481.7	1513.5	1561.3	1574.5	1563.9	1582.5
57.5°	3981.3	3461.8	2102.0	1492.3	1399.6	1389.0	1412.8	1436.7	1439.3	1412.8	1431.4
60°	3991.9	3400.8	1953.6	1394.3	1320.0	1290.9	1298.8	1293.5	1288.2	1277.6	1293.5
62.5°	3938.9	3271.0	1789.2	1298.8	1235.2	1190.2	1187.5	1184.9	1192.8	1195.5	1198.1
65°	3745.4	3027.1	1593.1	1200.8	1145.1	1084.1	1081.5	1113.3	1123.9	1108.0	1113.3
67.5°	3371.7	2653.3	1378.4	1086.8	1031.1	978.1	999.3	1017.9	1036.4	1031.1	1036.4
70°	2841.5	2178.9	1182.2	959.6	906.5	877.4	901.2	917.1	919.8	914.5	919.8
72.5°	2234.5	1701.7	999.3	829.7	782.0	768.7	797.9	811.1	835.0	845.6	848.2
75°	1614.3	1256.4	819.1	689.2	649.4	649.4	675.9	699.8	721.0	707.7	699.8
77.5°	901.2	750.1	588.5	474.5	482.4	519.5	530.1	556.6	577.9	575.2	569.9
80°	546.0	469.2	397.6	307.5	304.8	334.0	402.9	448.0	458.6	434.7	432.1
82.5°	283.6	246.5	212.1	172.3	190.8	222.7	233.3	281.0	310.1	299.5	312.8
85°	71.6	68.9	76.9	79.5	98.1	108.7	119.3	140.5	92.8	45.1	45.1
87.5°	21.2	21.2	26.5	26.5	34.5	42.4	39.8	39.8	21.2	2.7	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)