

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: P835827

Luminaire Tested: **ARCH3-100-730-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835827
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: ARCH3-100-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

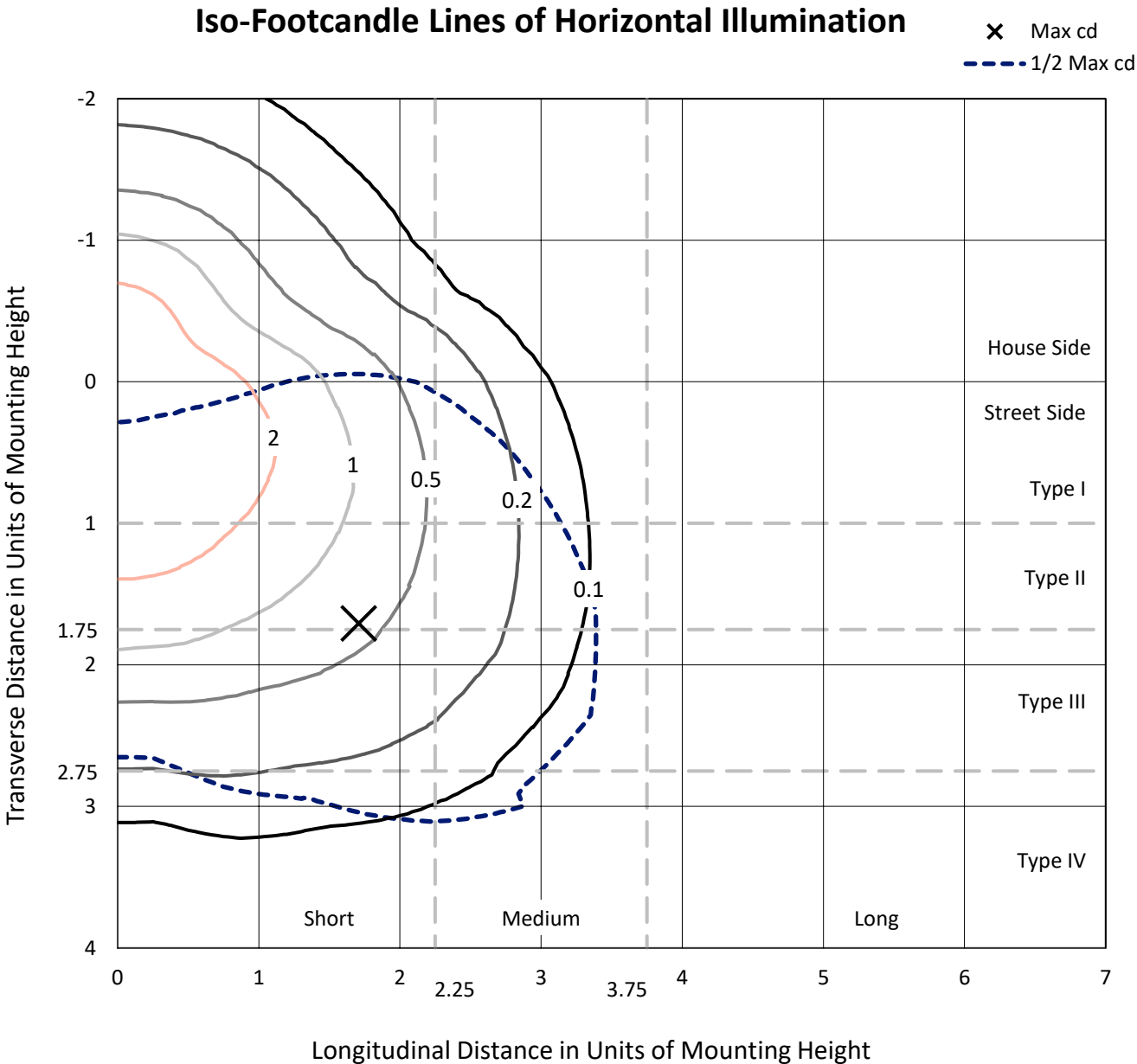
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15426 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.6
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



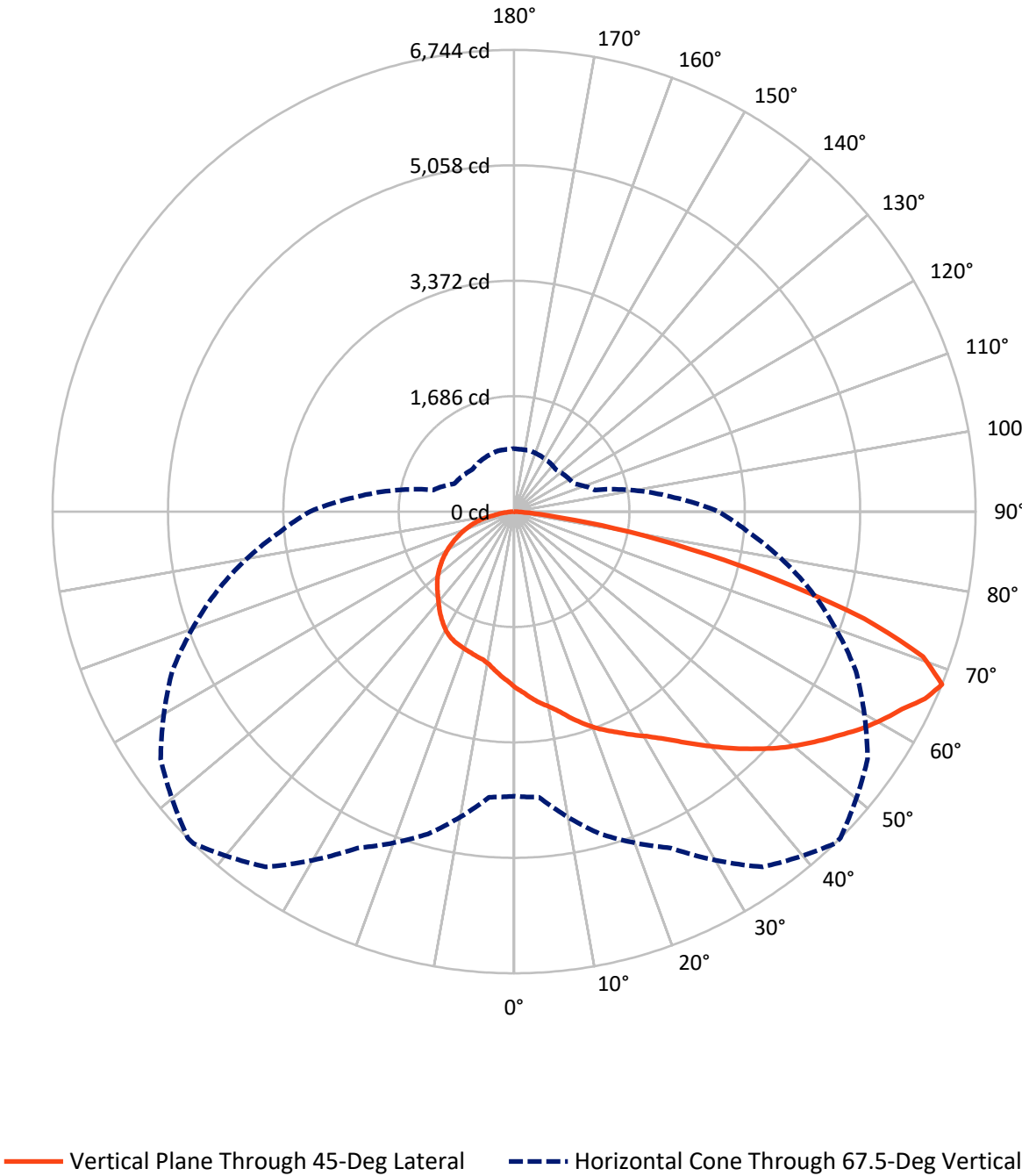
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Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4121.1	0.0	4121.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	11304.9	0.0	11304.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	15426.0	0.0	15426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.3	1.6
10°-20°	760.9	4.9
20°-30°	1313.5	8.5
30°-40°	1936.9	12.6
40°-50°	2624.1	17.0
50°-60°	3207.3	20.8
60°-70°	3307.9	21.4
70°-80°	1811.8	11.7
80°-90°	217.2	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°	15426.0	100.0
0°-180°	15426.0	100.0

Coefficient of Utilization



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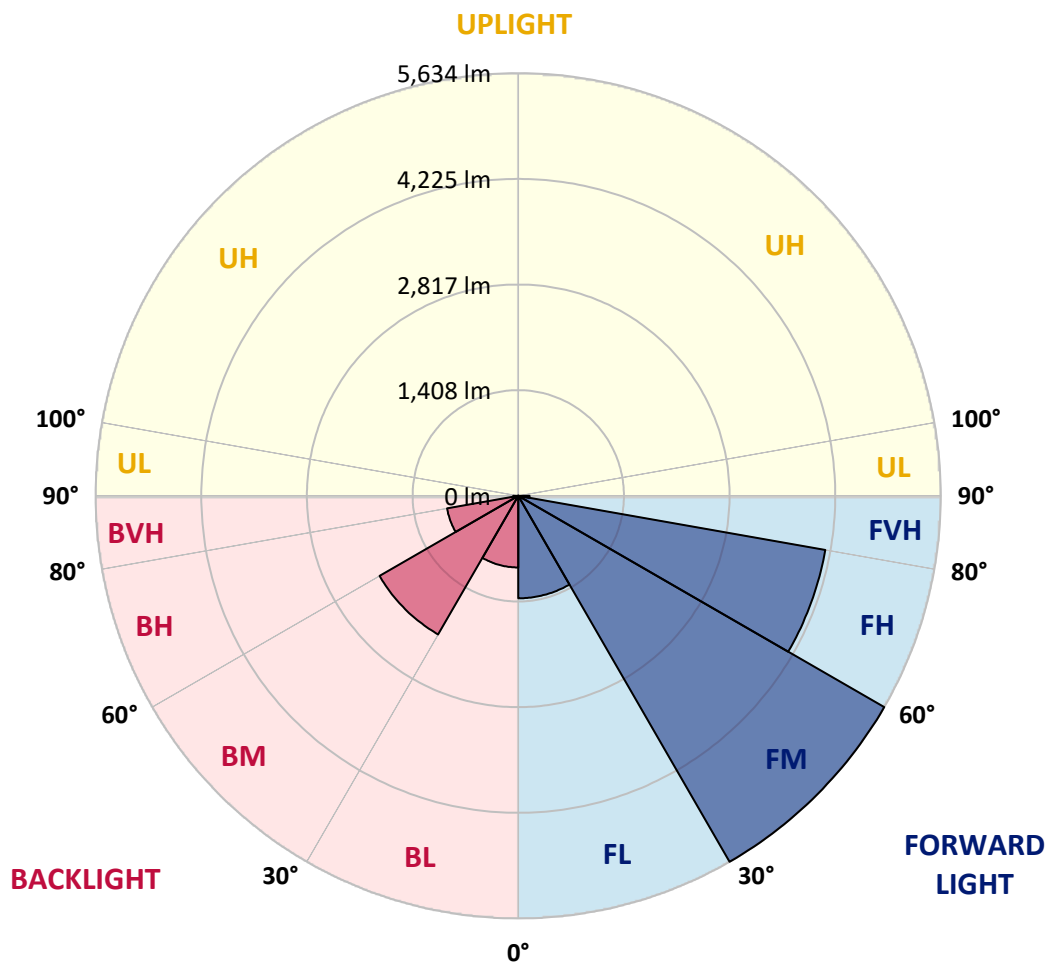
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1365.6	8.9			
FM	(30°-60°)	5633.7	36.5			
FH	(60°-80°)	4156.0	26.9			G2/5000
FVH	(80°-90°)	149.6	1.0			G2/225
BL	(0°-30°)	955.1	6.2	B2/1000		
BM	(30°-60°)	2134.6	13.8	B2/2500		
BH	(60°-80°)	963.7	6.2	B2/1000		G2/1000
BVH	(80°-90°)	67.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2572.8	2572.8	2572.8	2572.8	2572.8	2572.8	2572.8	2572.8	2572.8	2572.8	2572.8
2.5°	2685.4	2683.1	2687.8	2671.4	2650.2	2647.9	2647.9	2633.8	2617.4	2584.5	2558.7
5°	2812.2	2807.5	2809.9	2786.4	2758.2	2744.1	2741.8	2711.3	2673.7	2622.1	2575.1
7.5°	2929.6	2924.9	2922.5	2896.7	2854.5	2831.0	2828.6	2784.0	2739.4	2659.6	2591.5
10°	3039.9	3035.2	3030.5	2995.3	2943.7	2908.4	2903.7	2847.4	2791.1	2692.5	2605.6
12.5°	3180.7	3171.4	3166.7	3124.4	3049.3	3011.7	3004.7	2929.6	2859.1	2739.4	2633.8
15°	3328.6	3321.6	3314.5	3274.6	3190.1	3140.8	3129.1	3035.2	2939.0	2800.5	2676.1
17.5°	3439.0	3431.9	3431.9	3396.7	3319.2	3262.9	3253.5	3140.8	3021.1	2856.8	2708.9
20°	3507.0	3500.0	3507.0	3485.9	3427.2	3380.3	3370.9	3246.5	3103.3	2908.4	2737.1
22.5°	3556.3	3549.3	3561.0	3551.6	3509.4	3481.2	3474.2	3352.1	3187.8	2962.4	2765.3
25°	3643.2	3643.2	3643.2	3626.8	3586.8	3577.5	3577.5	3471.8	3295.8	3032.9	2807.5
27.5°	3816.9	3807.5	3795.8	3748.8	3680.7	3678.4	3692.5	3593.9	3420.2	3124.4	2859.1
30°	4072.8	4068.1	4023.5	3924.9	3809.9	3798.1	3807.5	3725.3	3554.0	3220.7	2917.8
32.5°	4403.7	4387.3	4295.8	4147.9	3983.6	3929.6	3948.3	3861.5	3694.8	3319.2	2974.2
35°	4638.5	4643.2	4577.5	4443.7	4248.8	4105.6	4119.7	4014.1	3847.4	3429.6	3044.6
37.5°	4908.4	4924.9	4826.3	4725.3	4544.6	4300.5	4314.5	4171.4	4000.0	3568.1	3119.7
40°	5281.7	5248.8	5082.1	4962.4	4762.9	4504.7	4516.4	4347.4	4176.0	3699.5	3206.6
42.5°	5593.9	5535.2	5333.3	5180.7	4941.3	4720.6	4732.4	4537.5	4354.5	3845.1	3302.8
45°	6042.2	5880.3	5589.2	5514.1	5124.4	4931.9	4943.7	4739.4	4542.2	4000.0	3406.1
47.5°	6302.8	6044.6	5859.1	5819.2	5326.3	5150.2	5164.3	4953.0	4744.1	4176.0	3514.1
50°	6286.4	6119.7	6065.7	5967.1	5504.7	5354.4	5368.5	5173.7	4948.3	4349.8	3617.4
52.5°	6178.4	6208.9	6180.7	6016.4	5683.1	5551.6	5568.1	5392.0	5157.3	4511.7	3713.6
55°	6345.1	6366.2	6312.2	6096.2	5880.3	5748.8	5767.6	5622.1	5363.8	4654.9	3795.8
57.5°	6544.6	6469.5	6415.5	6237.1	6084.5	5962.4	5983.6	5856.8	5542.2	4769.9	3859.1
60°	6535.2	6377.9	6431.9	6246.5	6223.0	6159.6	6178.4	6049.3	5678.4	4854.4	3885.0
62.5°	6054.0	5969.5	6241.8	6178.4	6335.7	6335.7	6359.1	6166.7	5760.6	4889.7	3870.9
65°	5218.3	5223.0	5701.9	5964.8	6469.5	6577.5	6596.2	6239.4	5713.6	4786.4	3739.4
67.5°	4157.3	4187.8	4875.6	5422.5	6335.7	6741.8	6744.1	6305.2	5511.7	4495.3	3434.3
70°	3042.2	3065.7	3877.9	4542.2	5704.2	6377.9	6340.4	6119.7	5072.8	3988.3	2957.7
72.5°	2056.3	2077.5	2913.1	3488.3	4680.7	5431.9	5349.8	5408.4	4323.9	3277.0	2377.9
75°	1382.6	1408.4	2072.8	2495.3	3443.7	4124.4	3941.3	4096.2	3345.1	2481.2	1734.7
77.5°	870.9	887.3	1316.9	1636.1	2352.1	2807.5	2624.4	2626.8	1927.2	1335.7	931.9
80°	554.0	558.7	798.1	943.7	1361.5	1687.8	1493.0	1213.6	868.5	708.9	556.3
82.5°	321.6	314.6	476.5	532.9	647.9	640.8	530.5	502.3	380.3	354.5	284.0
85°	129.1	119.7	208.9	194.8	197.2	208.9	154.9	154.9	124.4	96.2	70.4
87.5°	25.8	25.8	28.2	25.8	25.8	28.2	21.1	21.1	18.8	18.8	18.8
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°	2572.8	2572.8	2572.8	2572.8	2572.8	2572.8	2572.8	2572.8	2572.8	2572.8	2572.8
2.5°	2554.0	2549.3	2537.6	2507.0	2490.6	2481.2	2467.1	2462.4	2460.1	2462.4	2469.5
5°	2561.0	2544.6	2511.7	2462.4	2429.6	2408.4	2385.0	2375.6	2368.5	2368.5	2375.6
7.5°	2565.7	2539.9	2483.6	2410.8	2363.8	2331.0	2302.8	2291.1	2288.7	2295.8	2298.1
10°	2568.1	2530.5	2450.7	2359.1	2298.1	2255.9	2227.7	2220.7	2227.7	2241.8	2244.1
12.5°	2584.5	2532.9	2431.9	2323.9	2251.2	2208.9	2187.8	2187.8	2206.6	2232.4	2234.7
15°	2612.7	2549.3	2422.5	2295.8	2220.7	2183.1	2176.1	2187.8	2216.0	2255.9	2260.6
17.5°	2633.8	2558.7	2401.4	2258.2	2180.7	2157.3	2169.0	2197.2	2237.1	2291.1	2295.8
20°	2647.9	2558.7	2370.9	2213.6	2140.8	2136.1	2169.0	2213.6	2255.9	2319.2	2326.3
22.5°	2662.0	2554.0	2335.7	2159.6	2096.2	2110.3	2171.4	2227.7	2269.9	2338.0	2349.8
25°	2687.8	2561.0	2300.5	2105.6	2049.3	2089.2	2169.0	2237.1	2281.7	2352.1	2370.9
27.5°	2723.0	2577.5	2274.6	2056.3	2002.3	2056.3	2152.6	2234.7	2281.7	2349.8	2370.9
30°	2760.6	2596.2	2244.1	2002.3	1948.4	2009.4	2117.4	2208.9	2262.9	2326.3	2352.1
32.5°	2800.5	2617.4	2218.3	1943.7	1882.6	1946.0	2065.7	2169.0	2227.7	2286.4	2314.5
35°	2854.5	2654.9	2204.2	1896.7	1823.9	1880.3	2000.0	2117.4	2180.7	2234.7	2267.6
37.5°	2920.2	2701.9	2197.2	1849.8	1760.6	1807.5	1929.6	2054.0	2122.1	2166.7	2197.2
40°	2995.3	2760.6	2194.8	1805.2	1697.2	1732.4	1856.8	1981.2	2046.9	2082.2	2108.0
42.5°	3079.8	2826.3	2190.1	1760.6	1633.8	1662.0	1786.4	1908.4	1964.8	1995.3	2018.8
45°	3169.0	2892.0	2180.7	1706.6	1565.7	1598.6	1713.6	1821.6	1880.3	1906.1	1931.9
47.5°	3258.2	2957.7	2162.0	1645.5	1504.7	1535.2	1636.1	1730.0	1777.0	1800.5	1826.3
50°	3345.1	3016.4	2117.4	1575.1	1441.3	1469.5	1546.9	1610.3	1645.5	1664.3	1690.1
52.5°	3422.5	3056.3	2054.0	1493.0	1377.9	1392.0	1443.7	1497.6	1525.8	1528.2	1551.6
55°	3488.3	3077.5	1962.4	1408.4	1309.9	1312.2	1340.4	1382.6	1394.4	1385.0	1401.4
57.5°	3525.8	3065.7	1861.5	1321.6	1239.4	1230.0	1251.2	1272.3	1274.6	1251.2	1267.6
60°	3535.2	3011.7	1730.0	1234.7	1169.0	1143.2	1150.2	1145.5	1140.8	1131.5	1145.5
62.5°	3488.3	2896.7	1584.5	1150.2	1093.9	1054.0	1051.6	1049.3	1056.3	1058.7	1061.0
65°	3316.9	2680.7	1410.8	1063.4	1014.1	960.1	957.7	985.9	995.3	981.2	985.9
67.5°	2985.9	2349.8	1220.7	962.4	913.1	866.2	885.0	901.4	917.8	913.1	917.8
70°	2516.4	1929.6	1046.9	849.8	802.8	777.0	798.1	812.2	814.6	809.9	814.6
72.5°	1978.9	1507.0	885.0	734.7	692.5	680.7	706.6	718.3	739.4	748.8	751.2
75°	1429.6	1112.7	725.4	610.3	575.1	575.1	598.6	619.7	638.5	626.8	619.7
77.5°	798.1	664.3	521.1	420.2	427.2	460.1	469.5	493.0	511.7	509.4	504.7
80°	483.6	415.5	352.1	272.3	270.0	295.8	356.8	396.7	406.1	385.0	382.6
82.5°	251.2	218.3	187.8	152.6	169.0	197.2	206.6	248.8	274.6	265.3	277.0
85°	63.4	61.0	68.1	70.4	86.9	96.2	105.6	124.4	82.2	39.9	39.9
87.5°	18.8	18.8	23.5	23.5	30.5	37.6	35.2	35.2	18.8	2.3	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)