

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: P799365

Luminaire Tested: **ARCH2-110-727-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12698 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 109.5
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

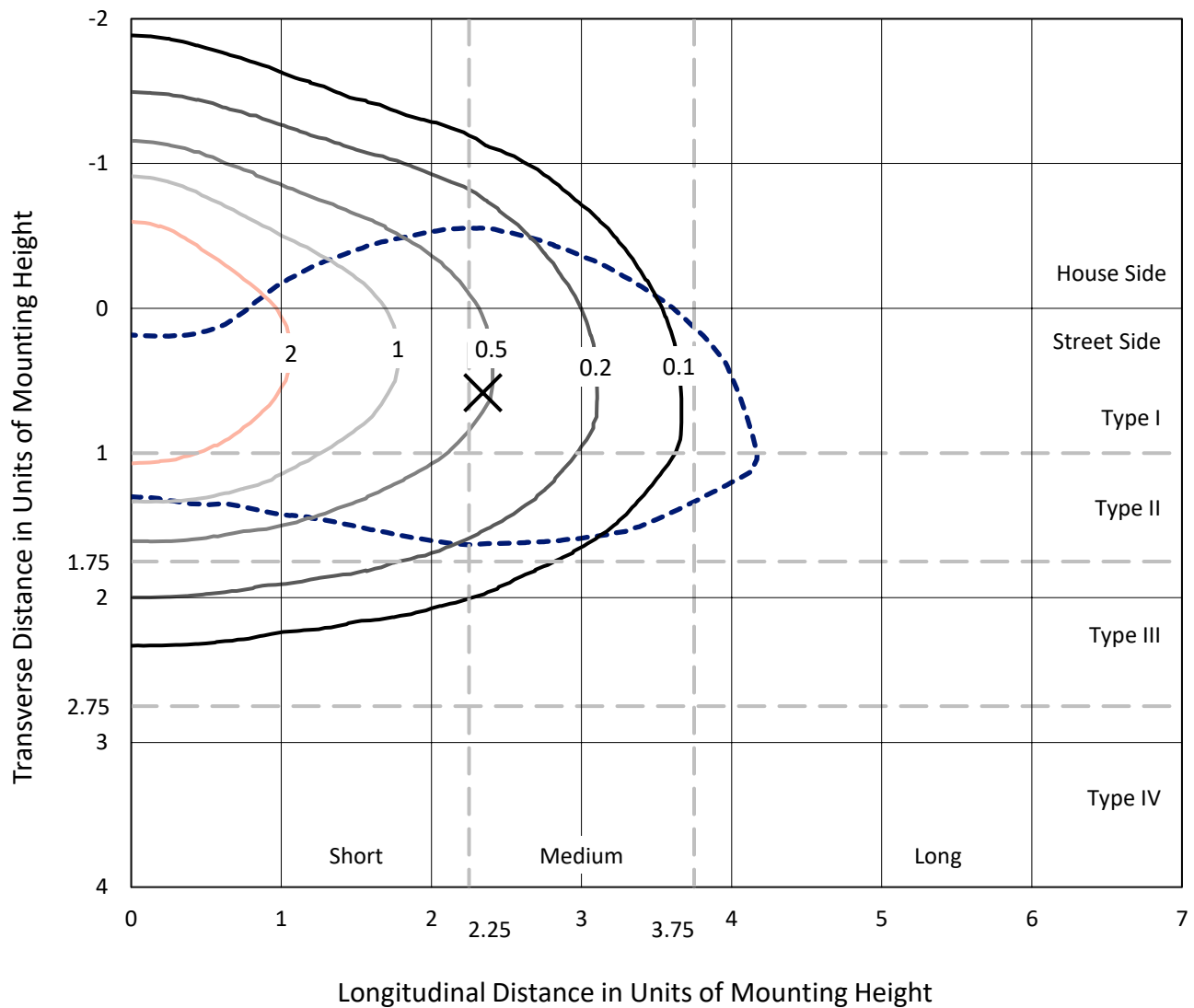


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

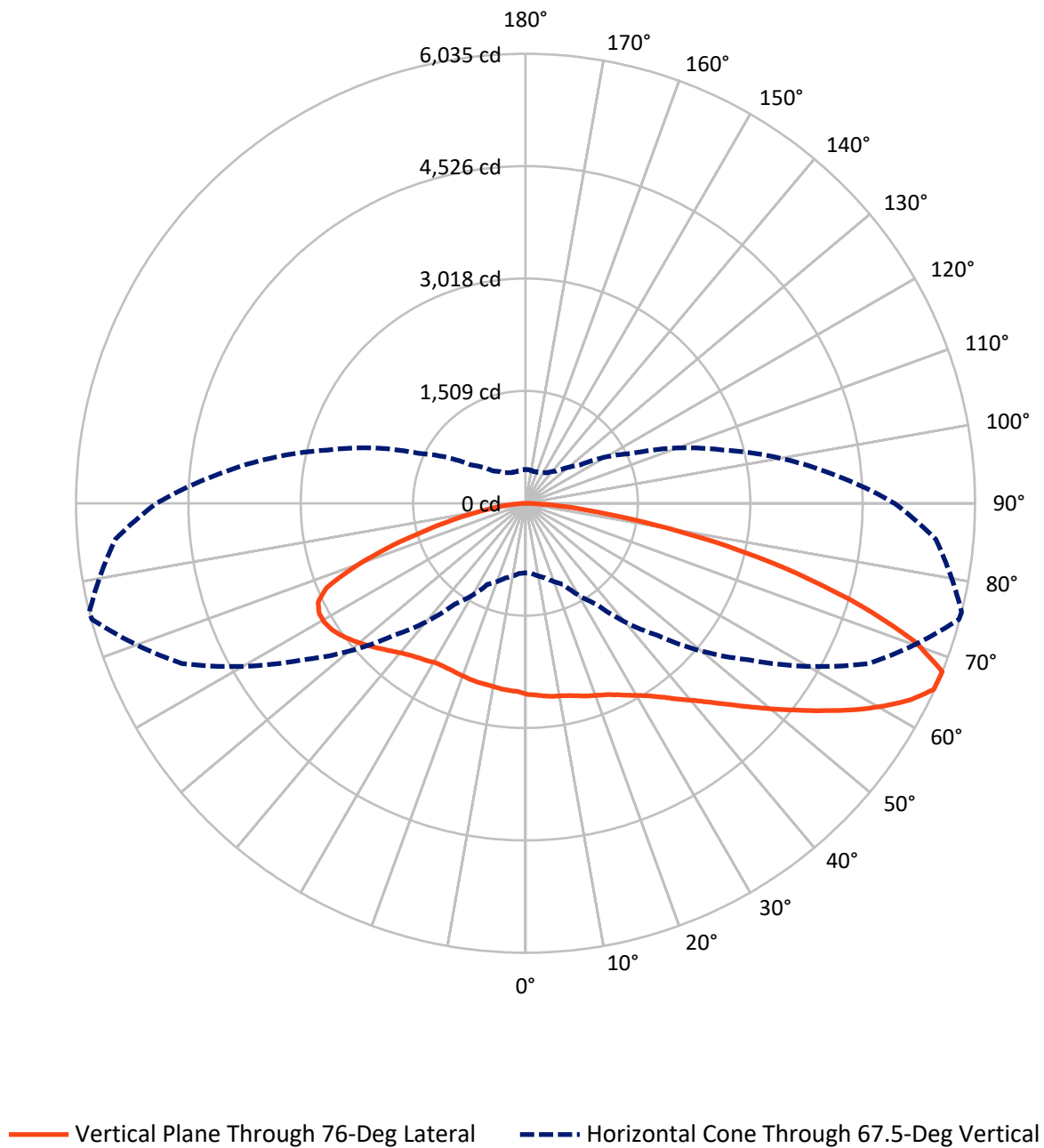


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4290.7	0.0	4290.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	8407.3	0.0	8407.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	12698.0	0.0	12698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.3	1.9
10°-20°	756.1	6.0
20°-30°	1284.7	10.1
30°-40°	1828.0	14.4
40°-50°	2308.7	18.2
50°-60°	2499.6	19.7
60°-70°	2324.9	18.3
70°-80°	1248.7	9.8
80°-90°	200.1	1.6
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°	12698.0	100.0
0°-180°	12698.0	100.0

Coefficient of Utilization



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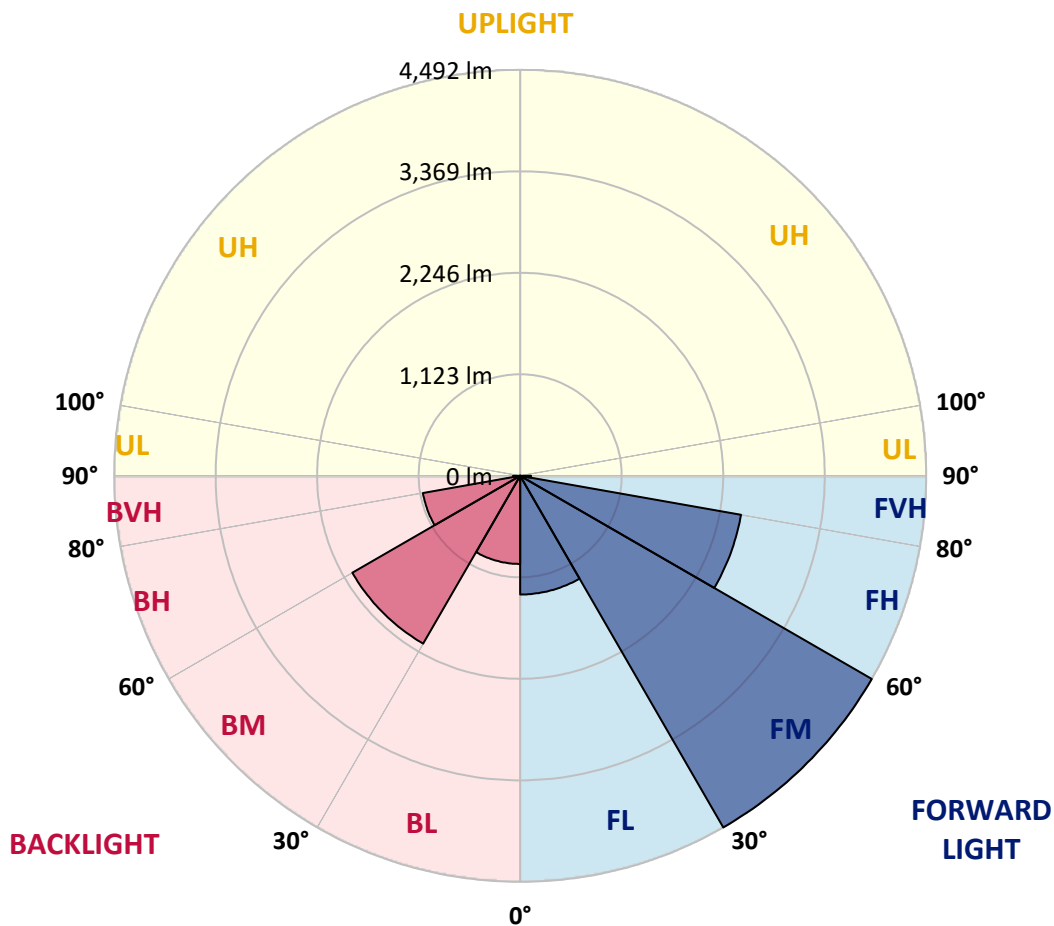
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1313.1	10.3			
FM	(30°-60°)	4492.1	35.4			
FH	(60°-80°)	2481.1	19.5			G2/5000
FVH	(80°-90°)	121.0	1.0			G2/225
BL	(0°-30°)	975.1	7.7	B2/1000		
BM	(30°-60°)	2144.1	16.9	B2/2500		
BH	(60°-80°)	1092.5	8.6	B3/2500		G3/2500
BVH	(80°-90°)	79.1	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0
2.5°	2642.8	2638.1	2619.2	2621.5	2621.5	2619.2	2590.9	2579.1	2579.1	2576.8	2550.8
5°	2737.1	2730.0	2708.8	2704.1	2694.6	2682.8	2638.1	2612.1	2600.3	2598.0	2562.6
7.5°	2847.9	2838.4	2812.5	2798.4	2774.8	2744.1	2687.6	2647.5	2619.2	2616.8	2567.3
10°	2958.7	2949.2	2918.6	2892.7	2859.7	2810.1	2737.1	2678.1	2633.3	2628.6	2569.7
12.5°	3090.7	3081.3	3043.5	3010.5	2961.0	2895.0	2798.4	2718.2	2656.9	2649.8	2576.8
15°	3229.8	3215.6	3177.9	3140.2	3078.9	2994.0	2878.5	2772.4	2694.6	2682.8	2598.0
17.5°	3345.3	3326.4	3295.8	3258.1	3189.7	3090.7	2958.7	2826.7	2730.0	2720.6	2619.2
20°	3444.3	3430.2	3397.2	3361.8	3288.7	3180.3	3034.1	2880.9	2763.0	2751.2	2635.7
22.5°	3538.6	3519.8	3500.9	3475.0	3394.8	3274.6	3121.3	2946.9	2805.4	2791.3	2656.9
25°	3647.1	3625.8	3618.8	3604.6	3510.3	3387.7	3227.4	3029.4	2864.4	2847.9	2694.6
27.5°	3781.4	3757.9	3743.7	3743.7	3630.6	3503.3	3340.6	3126.1	2932.7	2918.6	2741.8
30°	3922.9	3894.6	3873.4	3873.4	3746.1	3618.8	3451.4	3222.7	3010.5	2994.0	2803.1
32.5°	4047.8	4019.5	3996.0	3993.6	3861.6	3734.3	3566.9	3328.8	3104.8	3083.6	2878.5
35°	4144.5	4118.6	4097.3	4102.1	3977.1	3852.2	3696.6	3470.3	3222.7	3199.1	2977.5
37.5°	4203.4	4194.0	4182.2	4198.7	4083.2	3965.3	3830.9	3607.0	3357.1	3335.9	3100.1
40°	4234.1	4227.0	4274.2	4295.4	4172.8	4066.7	3965.3	3748.4	3503.3	3479.7	3241.6
42.5°	4278.9	4337.8	4356.7	4352.0	4238.8	4144.5	4087.9	3901.7	3675.4	3654.1	3411.3
45°	4118.6	4104.4	4208.2	4264.7	4243.5	4194.0	4203.4	4085.6	3875.7	3854.5	3607.0
47.5°	3904.0	3885.2	3944.1	4083.2	4165.7	4212.9	4307.2	4276.5	4106.8	4087.9	3835.7
50°	3451.4	3477.3	3696.6	3882.8	4045.5	4208.2	4394.4	4481.6	4361.4	4342.5	4080.8
52.5°	2949.2	2975.2	3203.9	3632.9	3899.3	4172.8	4458.0	4686.7	4637.2	4616.0	4342.5
55°	2583.8	2640.4	2899.7	3210.9	3691.9	4062.0	4495.8	4896.5	4934.3	4915.4	4627.8
57.5°	2220.8	2263.2	2458.9	2734.7	3409.0	3868.7	4493.4	5092.2	5245.5	5226.6	4917.8
60°	1794.1	1848.3	2003.9	2300.9	3031.8	3637.6	4427.4	5245.5	5544.9	5530.7	5198.3
62.5°	1501.7	1518.2	1629.0	1886.0	2546.1	3345.3	4278.9	5328.0	5816.0	5806.5	5450.6
65°	1209.4	1211.8	1313.1	1527.7	2077.0	2982.2	4026.6	5297.3	6021.1	6025.8	5632.1
67.5°	933.6	945.4	1037.3	1200.0	1650.3	2510.7	3665.9	5089.9	6023.4	6035.2	5528.4
70°	646.0	655.4	794.5	952.4	1275.4	2001.5	3177.9	4540.6	5528.4	5537.8	4955.5
72.5°	455.0	459.7	608.2	761.5	997.2	1508.8	2397.6	3755.5	4712.7	4719.7	4168.1
75°	339.5	344.2	429.1	577.6	763.8	1044.4	1638.5	2876.2	3764.9	3764.9	3291.1
77.5°	240.5	242.8	278.2	398.4	509.2	704.9	985.4	1883.6	2763.0	2767.7	2397.6
80°	162.7	165.0	181.5	268.8	318.3	381.9	535.2	987.8	1742.2	1749.3	1522.9
82.5°	84.9	89.6	101.4	136.7	160.3	212.2	275.8	502.1	964.2	983.1	914.7
85°	33.0	33.0	37.7	44.8	58.9	82.5	127.3	191.0	436.1	450.3	403.1
87.5°	11.8	11.8	14.1	14.1	16.5	18.9	21.2	28.3	49.5	49.5	47.2
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°	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0
2.5°	2541.4	2541.4	2529.6	2534.3	2532.0	2527.2	2522.5	2529.6	2522.5	2506.0	2503.7
5°	2546.1	2541.4	2522.5	2520.2	2513.1	2503.7	2491.9	2496.6	2484.8	2470.7	2468.3
7.5°	2548.5	2539.0	2513.1	2503.7	2489.5	2470.7	2451.8	2451.8	2435.3	2421.2	2418.8
10°	2543.8	2532.0	2496.6	2477.7	2451.8	2423.5	2397.6	2390.5	2371.7	2355.1	2355.1
12.5°	2546.1	2529.6	2484.8	2454.2	2418.8	2383.4	2350.4	2341.0	2324.5	2308.0	2305.6
15°	2560.3	2536.7	2480.1	2440.0	2388.2	2348.1	2312.7	2305.6	2291.5	2279.7	2279.7
17.5°	2574.4	2543.8	2473.0	2416.4	2352.8	2308.0	2275.0	2275.0	2265.6	2258.5	2258.5
20°	2581.5	2546.1	2458.9	2383.4	2310.4	2263.2	2232.6	2237.3	2234.9	2232.6	2232.6
22.5°	2598.0	2550.8	2447.1	2352.8	2265.6	2216.1	2187.8	2194.8	2192.5	2192.5	2194.8
25°	2623.9	2562.6	2437.7	2324.5	2223.1	2168.9	2138.3	2143.0	2143.0	2143.0	2143.0
27.5°	2659.3	2586.2	2435.3	2298.6	2180.7	2119.4	2081.7	2081.7	2072.2	2074.6	2077.0
30°	2713.5	2631.0	2440.0	2275.0	2135.9	2058.1	2013.3	2006.2	2003.9	2008.6	2011.0
32.5°	2779.5	2692.3	2468.3	2258.5	2088.8	1989.7	1933.2	1930.8	1923.7	1923.7	1923.7
35°	2862.0	2751.2	2494.2	2256.1	2041.6	1916.7	1855.4	1848.3	1831.8	1824.7	1824.7
37.5°	2968.1	2843.2	2524.9	2239.6	2001.5	1845.9	1772.8	1749.3	1730.4	1728.1	1728.1
40°	3097.8	2946.9	2569.7	2220.8	1959.1	1772.8	1676.2	1636.1	1638.5	1647.9	1647.9
42.5°	3251.0	3074.2	2626.3	2211.3	1897.8	1697.4	1563.0	1515.9	1532.4	1541.8	1544.2
45°	3430.2	3225.1	2689.9	2199.6	1841.2	1612.5	1442.8	1383.9	1390.9	1393.3	1395.6
47.5°	3637.6	3392.5	2755.9	2190.1	1777.6	1506.4	1310.8	1233.0	1230.6	1216.5	1221.2
50°	3854.5	3569.3	2824.3	2173.6	1699.8	1381.5	1171.7	1079.7	1060.9	1039.7	1042.0
52.5°	4085.6	3750.8	2887.9	2147.7	1603.1	1254.2	1039.7	940.6	902.9	879.4	884.1
55°	4340.2	3937.0	2949.2	2107.6	1501.7	1126.9	921.8	820.4	773.3	754.4	756.8
57.5°	4573.6	4116.2	2994.0	2058.1	1390.9	1011.4	818.1	719.0	688.4	686.0	688.4
60°	4799.9	4267.1	3012.9	1989.7	1277.8	905.3	721.4	646.0	624.7	636.5	638.9
62.5°	4990.8	4363.7	3003.5	1897.8	1162.3	803.9	643.6	589.4	575.2	598.8	601.2
65°	5101.6	4394.4	2937.5	1765.8	1037.3	704.9	570.5	511.6	504.5	518.7	525.7
67.5°	4955.5	4203.4	2758.3	1584.2	898.2	613.0	499.8	452.6	440.9	452.6	452.6
70°	4392.0	3642.3	2333.9	1296.6	745.0	523.4	433.8	400.8	391.3	400.8	398.4
72.5°	3658.9	3029.4	1838.9	1011.4	587.0	440.9	377.2	346.6	337.1	327.7	323.0
75°	2838.4	2300.9	1334.3	742.6	443.2	353.6	315.9	287.6	264.0	273.5	268.8
77.5°	2079.3	1614.9	945.4	513.9	318.3	273.5	247.5	226.3	209.8	228.7	226.3
80°	1339.1	1044.4	631.8	344.2	219.2	191.0	181.5	169.7	186.2	242.8	247.5
82.5°	818.1	662.5	377.2	224.0	143.8	127.3	117.9	117.9	191.0	209.8	212.2
85°	365.4	351.3	205.1	115.5	80.2	73.1	66.0	84.9	77.8	56.6	58.9
87.5°	58.9	61.3	44.8	40.1	30.6	30.6	23.6	16.5	11.8	7.1	7.1
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)