

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: P799253

Luminaire Tested: **ARCH2-100-730-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799253
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: ARCH2-100-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12702 lumens
Efficiency: N/A
Efficacy: 123.0 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): 103.3
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

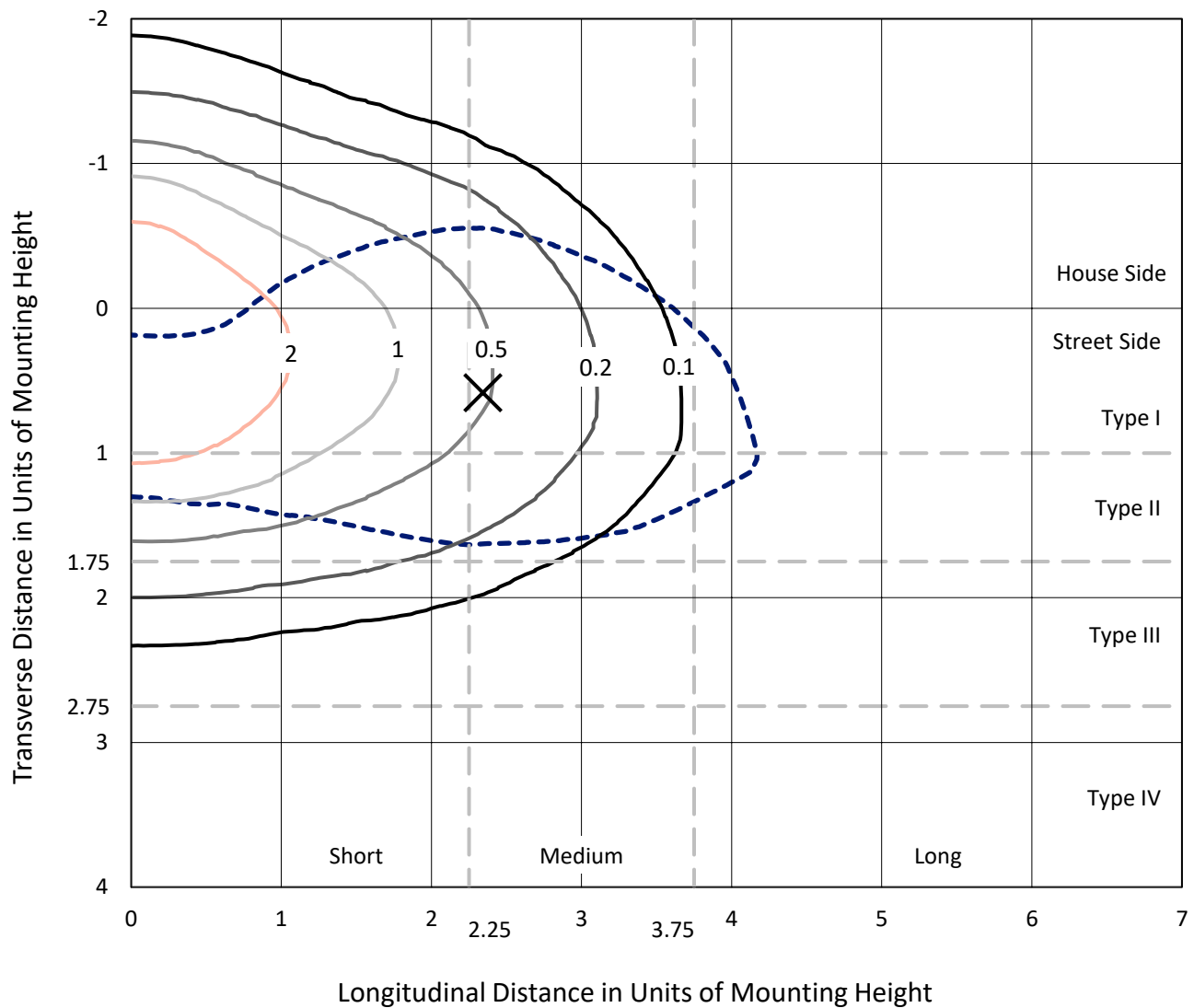


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

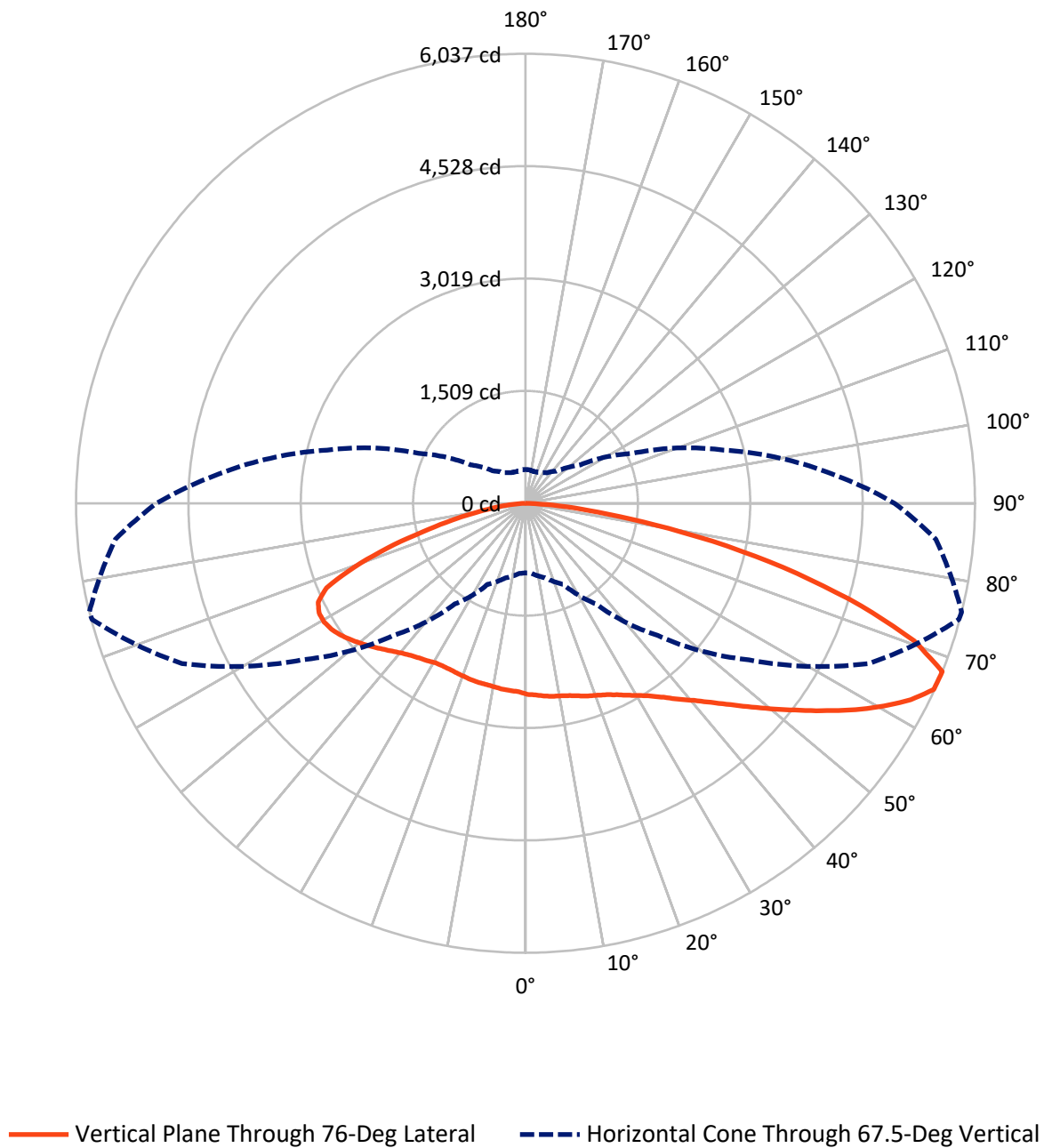


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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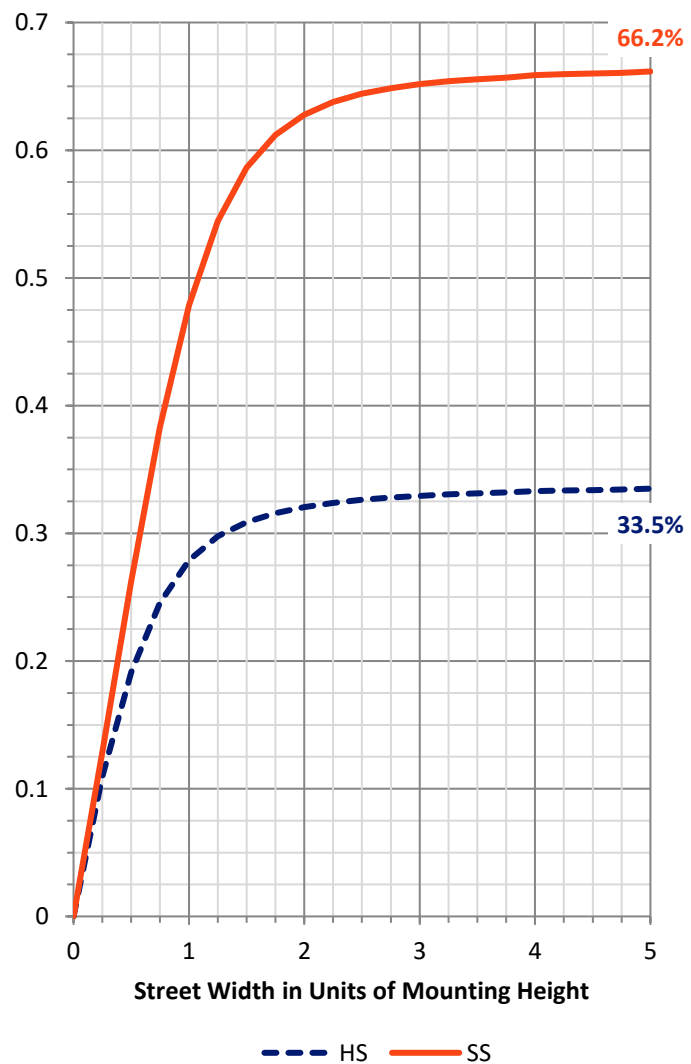
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4292.1	0.0	4292.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	8409.9	0.0	8409.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	12702.0	0.0	12702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	1.9
10°-20°	756.4	6.0
20°-30°	1285.1	10.1
30°-40°	1828.6	14.4
40°-50°	2309.4	18.2
50°-60°	2500.4	19.7
60°-70°	2325.6	18.3
70°-80°	1249.1	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°	12702.0	100.0
0°-180°	12702.0	100.0

Coefficient of Utilization



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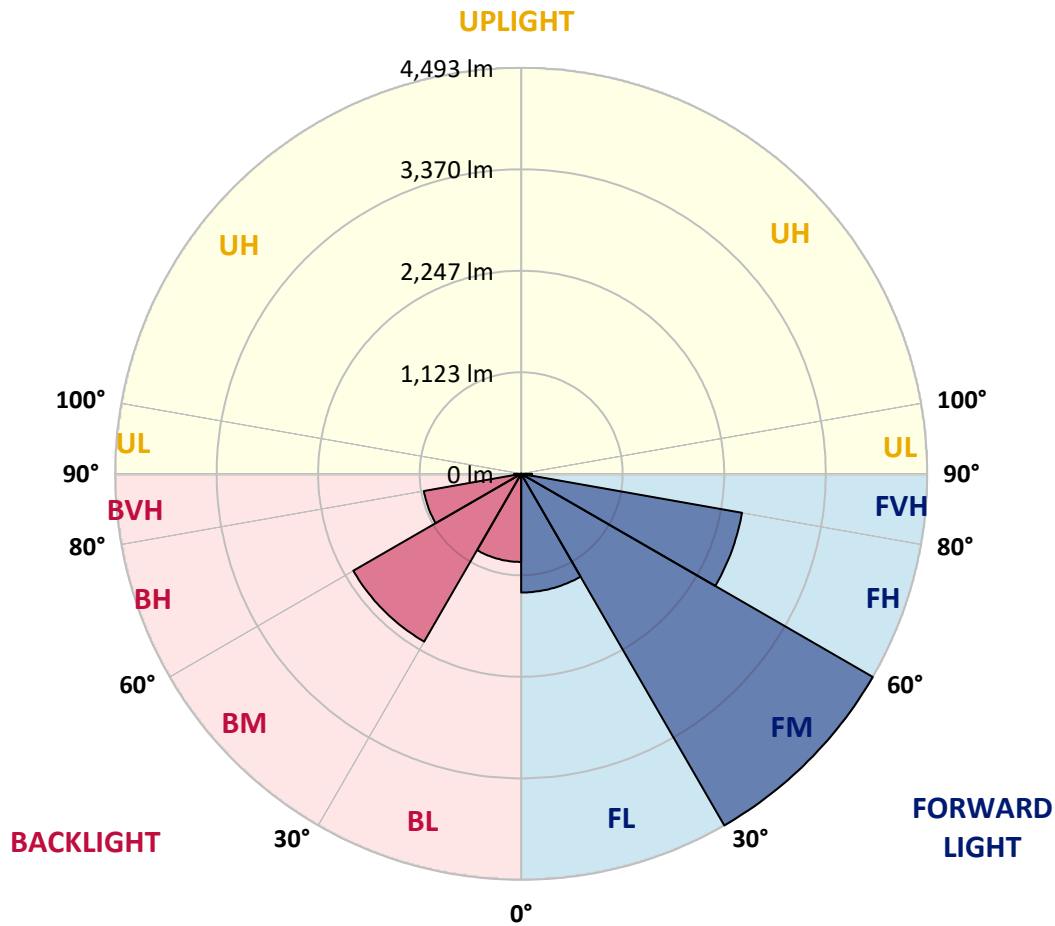
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1313.5	10.3			
FM	(30°-60°)	4493.5	35.4			
FH	(60°-80°)	2481.8	19.5			G2/5000
FVH	(80°-90°)	121.1	1.0			G2/225
BL	(0°-30°)	975.4	7.7	B2/1000		
BM	(30°-60°)	2144.8	16.9	B2/2500		
BH	(60°-80°)	1092.8	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°	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8
2.5°	2643.6	2638.9	2620.0	2622.4	2622.4	2620.0	2591.7	2579.9	2579.9	2577.6	2551.6
5°	2737.9	2730.9	2709.6	2704.9	2695.5	2683.7	2638.9	2612.9	2601.1	2598.8	2563.4
7.5°	2848.8	2839.3	2813.4	2799.2	2775.7	2745.0	2688.4	2648.3	2620.0	2617.7	2568.1
10°	2959.6	2950.2	2919.5	2893.6	2860.6	2811.0	2737.9	2679.0	2634.2	2629.4	2570.5
12.5°	3091.7	3082.2	3044.5	3011.5	2962.0	2895.9	2799.2	2719.1	2657.7	2650.7	2577.6
15°	3230.8	3216.7	3178.9	3141.2	3079.9	2995.0	2879.4	2773.3	2695.5	2683.7	2598.8
17.5°	3346.4	3327.5	3296.8	3259.1	3190.7	3091.7	2959.6	2827.5	2730.9	2721.4	2620.0
20°	3445.4	3431.3	3398.2	3362.9	3289.8	3181.3	3035.1	2881.8	2763.9	2752.1	2636.5
22.5°	3539.7	3520.9	3502.0	3476.1	3395.9	3275.6	3122.3	2947.8	2806.3	2792.2	2657.7
25°	3648.2	3627.0	3619.9	3605.8	3511.4	3388.8	3228.4	3030.4	2865.3	2848.8	2695.5
27.5°	3782.6	3759.1	3744.9	3744.9	3631.7	3504.4	3341.6	3127.0	2933.7	2919.5	2742.6
30°	3924.1	3895.8	3874.6	3874.6	3747.3	3619.9	3452.5	3223.7	3011.5	2995.0	2804.0
32.5°	4049.1	4020.8	3997.2	3994.9	3862.8	3735.5	3568.0	3329.8	3105.8	3084.6	2879.4
35°	4145.8	4119.9	4098.6	4103.4	3978.4	3853.4	3697.7	3471.3	3223.7	3200.1	2978.5
37.5°	4204.8	4195.3	4183.5	4200.0	4084.5	3966.6	3832.2	3608.1	3358.1	3336.9	3101.1
40°	4235.4	4228.3	4275.5	4296.7	4174.1	4068.0	3966.6	3749.6	3504.4	3480.8	3242.6
42.5°	4280.2	4339.2	4358.0	4353.3	4240.1	4145.8	4089.2	3902.9	3676.5	3655.3	3412.4
45°	4119.9	4105.7	4209.5	4266.1	4244.8	4195.3	4204.8	4086.8	3877.0	3855.7	3608.1
47.5°	3905.3	3886.4	3945.4	4084.5	4167.0	4214.2	4308.5	4277.9	4108.1	4089.2	3836.9
50°	3452.5	3478.4	3697.7	3884.0	4046.8	4209.5	4395.8	4483.0	4362.8	4343.9	4082.1
52.5°	2950.2	2976.1	3204.9	3634.1	3900.5	4174.1	4459.5	4688.2	4638.7	4617.5	4343.9
55°	2584.6	2641.2	2900.6	3211.9	3693.0	4063.3	4497.2	4898.1	4935.8	4917.0	4629.2
57.5°	2221.5	2263.9	2459.7	2735.6	3410.0	3869.9	4494.8	5093.8	5247.1	5228.2	4919.3
60°	1794.6	1848.9	2004.5	2301.7	3032.7	3638.8	4428.8	5247.1	5546.6	5532.5	5199.9
62.5°	1502.2	1518.7	1629.6	1886.6	2546.9	3346.4	4280.2	5329.6	5817.8	5808.4	5452.3
65°	1209.8	1212.1	1313.5	1528.1	2077.6	2983.2	4027.9	5299.0	6023.0	6027.7	5633.9
67.5°	933.9	945.7	1037.6	1200.3	1650.8	2511.5	3667.1	5091.5	6025.3	6037.1	5530.1
70°	646.2	655.6	794.7	952.7	1275.8	2002.2	3178.9	4542.0	5530.1	5539.5	4957.0
72.5°	455.1	459.9	608.4	761.7	997.5	1509.3	2398.3	3756.7	4714.1	4721.2	4169.4
75°	339.6	344.3	429.2	577.8	764.1	1044.7	1639.0	2877.1	3766.1	3766.1	3292.1
77.5°	240.5	242.9	278.3	398.5	509.4	705.1	985.7	1884.2	2763.9	2768.6	2398.3
80°	162.7	165.1	181.6	268.8	318.4	382.0	535.3	988.1	1742.7	1749.8	1523.4
82.5°	84.9	89.6	101.4	136.8	160.4	212.2	275.9	502.3	964.5	983.4	915.0
85°	33.0	33.0	37.7	44.8	59.0	82.5	127.3	191.0	436.3	450.4	403.3
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°	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8	2565.8
2.5°	2542.2	2542.2	2530.4	2535.1	2532.8	2528.0	2523.3	2530.4	2523.3	2506.8	2504.5
5°	2546.9	2542.2	2523.3	2521.0	2513.9	2504.5	2492.7	2497.4	2485.6	2471.4	2469.1
7.5°	2549.3	2539.8	2513.9	2504.5	2490.3	2471.4	2452.6	2452.6	2436.1	2421.9	2419.6
10°	2544.6	2532.8	2497.4	2478.5	2452.6	2424.3	2398.3	2391.3	2372.4	2355.9	2355.9
12.5°	2546.9	2530.4	2485.6	2454.9	2419.6	2384.2	2351.2	2341.7	2325.2	2308.7	2306.4
15°	2561.1	2537.5	2480.9	2440.8	2388.9	2348.8	2313.4	2306.4	2292.2	2280.4	2280.4
17.5°	2575.2	2544.6	2473.8	2417.2	2353.5	2308.7	2275.7	2275.7	2266.3	2259.2	2259.2
20°	2582.3	2546.9	2459.7	2384.2	2311.1	2263.9	2233.3	2238.0	2235.6	2233.3	2233.3
22.5°	2598.8	2551.6	2447.9	2353.5	2266.3	2216.8	2188.5	2195.5	2193.2	2193.2	2195.5
25°	2624.7	2563.4	2438.4	2325.2	2223.8	2169.6	2138.9	2143.6	2143.6	2143.6	2143.6
27.5°	2660.1	2587.0	2436.1	2299.3	2181.4	2120.1	2082.3	2082.3	2072.9	2075.3	2077.6
30°	2714.3	2631.8	2440.8	2275.7	2136.6	2058.8	2013.9	2006.9	2004.5	2009.2	2011.6
32.5°	2780.4	2693.1	2469.1	2259.2	2089.4	1990.4	1933.8	1931.4	1924.3	1924.3	1924.3
35°	2862.9	2752.1	2495.0	2256.8	2042.2	1917.3	1855.9	1848.9	1832.4	1825.3	1825.3
37.5°	2969.0	2844.0	2525.7	2240.3	2002.2	1846.5	1773.4	1749.8	1731.0	1728.6	1728.6
40°	3098.7	2947.8	2570.5	2221.5	1959.7	1773.4	1676.7	1636.6	1639.0	1648.4	1648.4
42.5°	3252.0	3075.2	2627.1	2212.0	1898.4	1697.9	1563.5	1516.4	1532.9	1542.3	1544.7
45°	3431.3	3226.1	2690.8	2200.2	1841.8	1613.0	1443.2	1384.3	1391.4	1393.7	1396.1
47.5°	3638.8	3393.5	2756.8	2190.8	1778.1	1506.9	1311.2	1233.4	1231.0	1216.9	1221.6
50°	3855.7	3570.4	2825.2	2174.3	1700.3	1381.9	1172.1	1080.1	1061.2	1040.0	1042.3
52.5°	4086.8	3752.0	2888.9	2148.4	1603.6	1254.6	1040.0	940.9	903.2	879.6	884.3
55°	4341.5	3938.3	2950.2	2108.3	1502.2	1127.2	922.1	820.7	773.5	754.6	757.0
57.5°	4575.0	4117.5	2995.0	2058.8	1391.4	1011.7	818.3	719.3	688.6	686.3	688.6
60°	4801.4	4268.4	3013.8	1990.4	1278.2	905.6	721.6	646.2	624.9	636.7	639.1
62.5°	4992.4	4365.1	3004.4	1898.4	1162.6	804.2	643.8	589.6	575.4	599.0	601.4
65°	5103.3	4395.8	2938.4	1766.3	1037.6	705.1	570.7	511.7	504.7	518.8	525.9
67.5°	4957.0	4204.8	2759.2	1584.7	898.5	613.1	499.9	452.8	441.0	452.8	452.8
70°	4393.4	3643.5	2334.7	1297.0	745.2	523.5	433.9	400.9	391.5	400.9	398.5
72.5°	3660.0	3030.4	1839.4	1011.7	587.2	441.0	377.3	346.7	337.2	327.8	323.1
75°	2839.3	2301.7	1334.8	742.8	443.4	353.7	316.0	287.7	264.1	273.6	268.8
77.5°	2080.0	1615.4	945.7	514.1	318.4	273.6	247.6	226.4	209.9	228.8	226.4
80°	1339.5	1044.7	632.0	344.3	219.3	191.0	181.6	169.8	186.3	242.9	247.6
82.5°	818.3	662.7	377.3	224.0	143.9	127.3	117.9	117.9	191.0	209.9	212.2
85°	365.5	351.4	205.2	115.6	80.2	73.1	66.0	84.9	77.8	56.6	59.0
87.5°	59.0	61.3	44.8	40.1	30.7	30.7	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)