

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: P835805

Luminaire Tested: **ARCH3-100-722-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13931 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

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

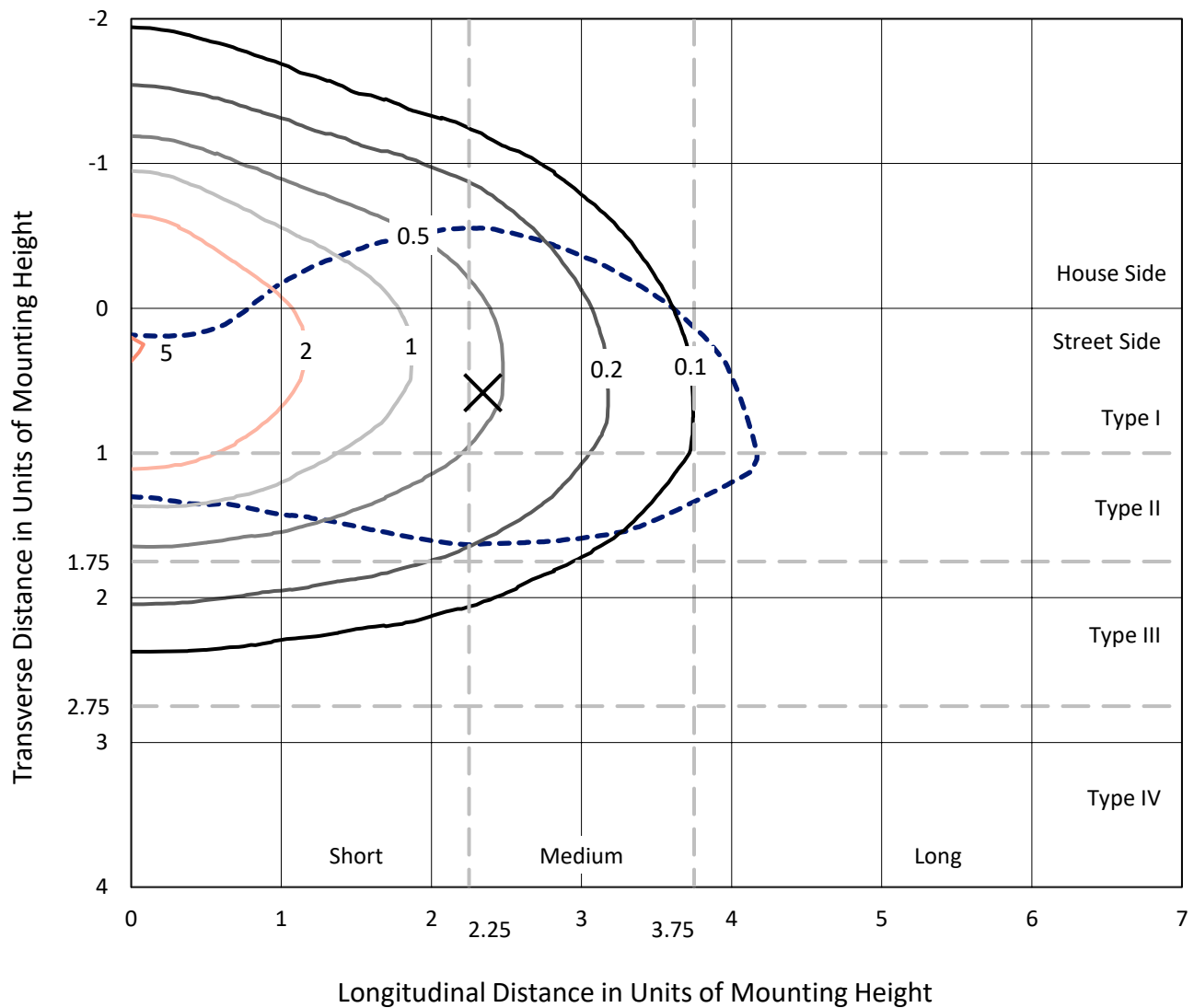


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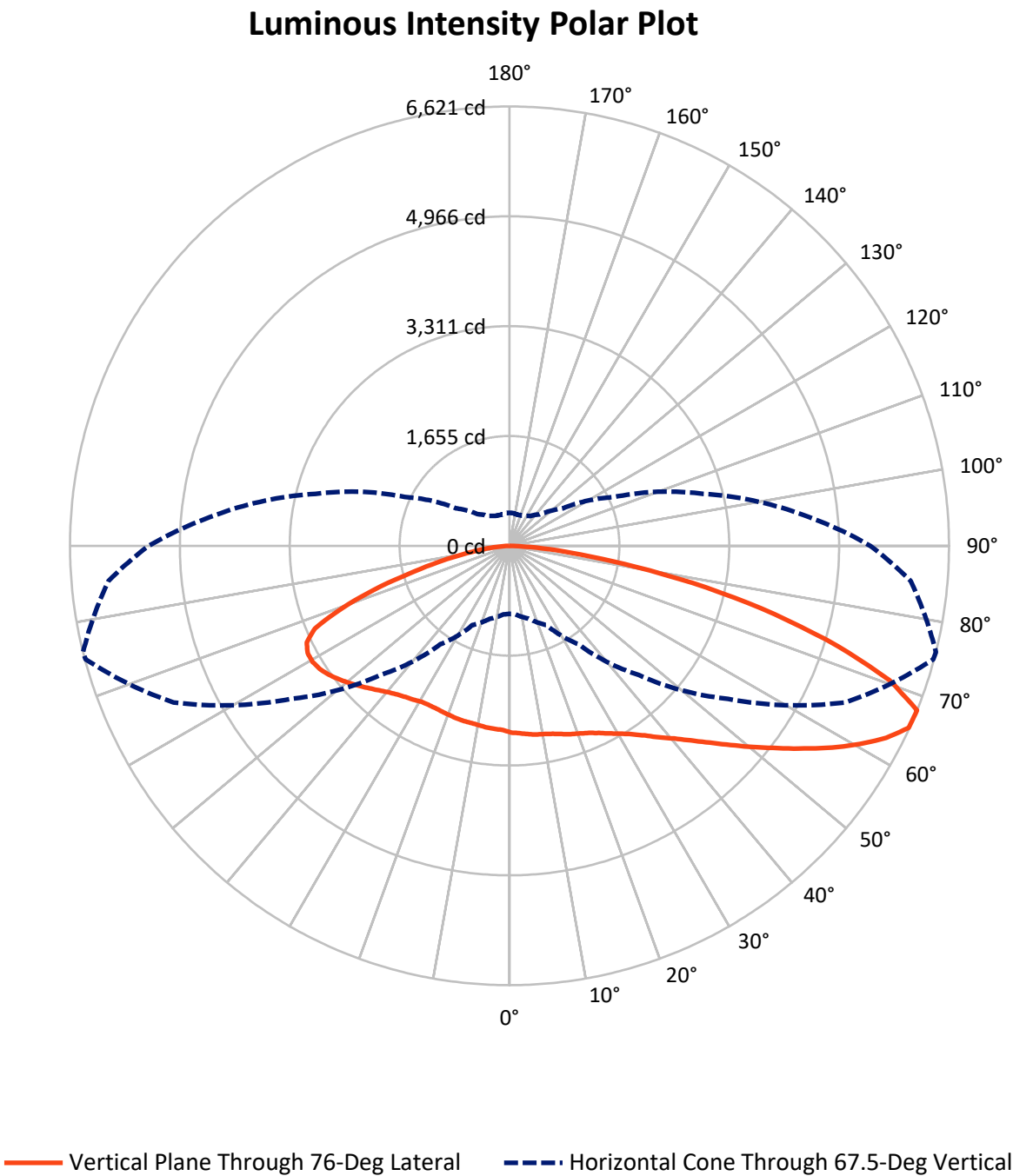
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type II - Medium - N/A

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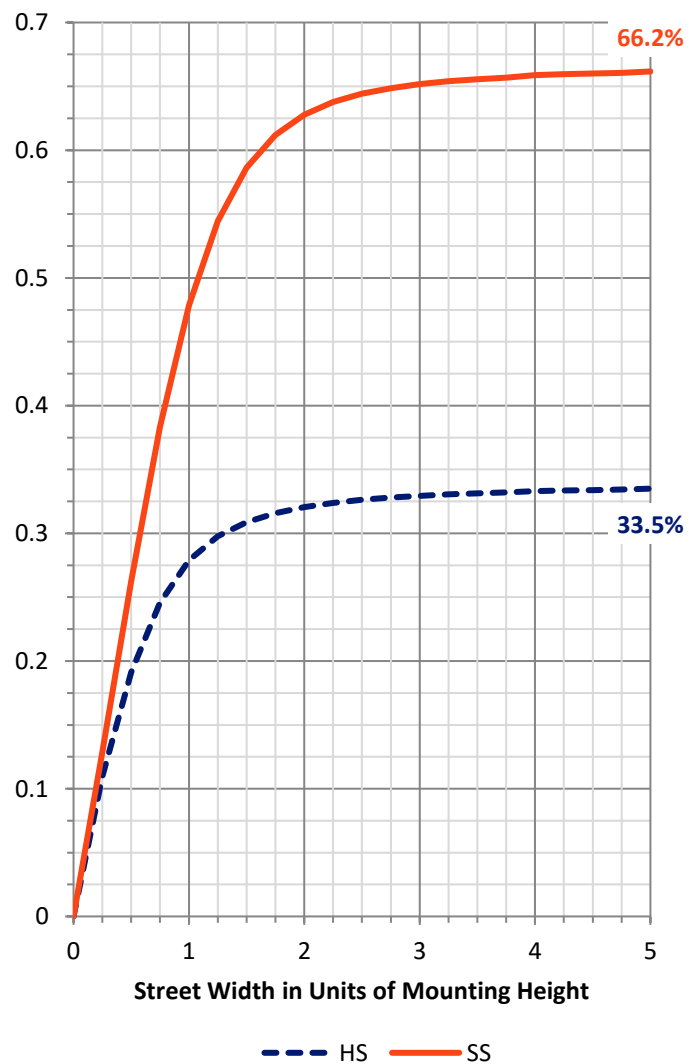
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4707.4	0.0	4707.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	9223.6	0.0	9223.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	13931.0	0.0	13931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.3	1.9
10°-20°	829.6	6.0
20°-30°	1409.5	10.1
30°-40°	2005.5	14.4
40°-50°	2532.8	18.2
50°-60°	2742.3	19.7
60°-70°	2550.6	18.3
70°-80°	1369.9	9.8
80°-90°	219.5	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°	13931.0	100.0
0°-180°	13931.0	100.0

Coefficient of Utilization



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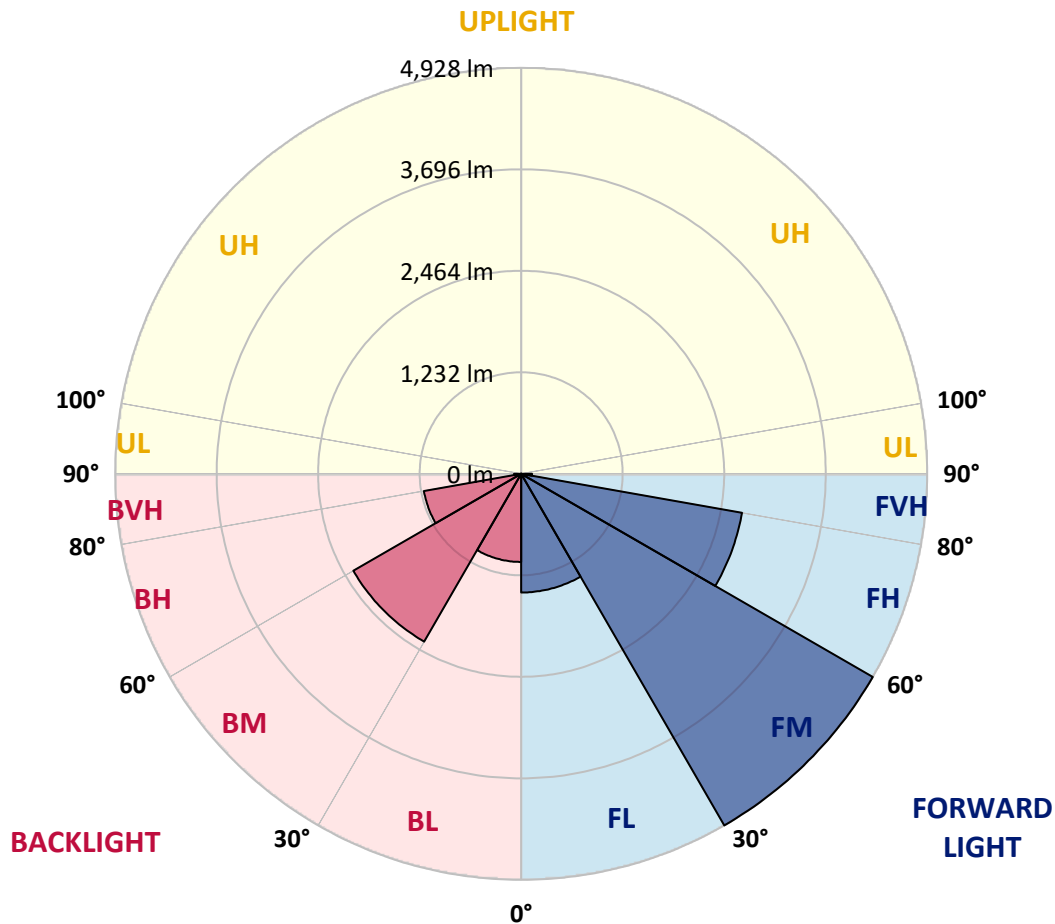
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1440.6	10.3			
FM	(30°-60°)	4928.3	35.4			
FH	(60°-80°)	2722.0	19.5			G2/5000
FVH	(80°-90°)	132.8	1.0			G2/225
BL	(0°-30°)	1069.8	7.7	B3/2500		
BM	(30°-60°)	2352.3	16.9	B2/2500		
BH	(60°-80°)	1198.5	8.6	B3/2500		G3/2500
BVH	(80°-90°)	86.7	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°	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0
2.5°	2899.4	2894.2	2873.5	2876.1	2876.1	2873.5	2842.5	2829.5	2829.5	2827.0	2798.5
5°	3002.8	2995.1	2971.8	2966.6	2956.3	2943.4	2894.2	2865.8	2852.8	2850.2	2811.4
7.5°	3124.4	3114.1	3085.6	3070.1	3044.2	3010.6	2948.5	2904.6	2873.5	2870.9	2816.6
10°	3246.0	3235.6	3202.0	3173.5	3137.3	3083.0	3002.8	2938.2	2889.0	2883.9	2819.2
12.5°	3390.8	3380.5	3339.1	3302.9	3248.6	3176.1	3070.1	2982.1	2914.9	2907.1	2827.0
15°	3543.4	3527.9	3486.5	3445.1	3377.9	3284.8	3158.0	3041.6	2956.3	2943.4	2850.2
17.5°	3670.1	3649.4	3615.8	3574.4	3499.4	3390.8	3246.0	3101.1	2995.1	2984.7	2873.5
20°	3778.8	3763.2	3727.0	3688.2	3608.1	3489.1	3328.7	3160.6	3031.3	3018.4	2891.6
22.5°	3882.2	3861.5	3840.8	3812.4	3724.5	3592.5	3424.4	3233.0	3077.8	3062.3	2914.9
25°	4001.2	3977.9	3970.2	3954.6	3851.2	3716.7	3540.8	3323.6	3142.5	3124.4	2956.3
27.5°	4148.6	4122.8	4107.2	4107.2	3983.1	3843.4	3665.0	3429.6	3217.5	3202.0	3008.0
30°	4303.8	4272.8	4249.5	4249.5	4109.8	3970.2	3786.5	3535.6	3302.9	3284.8	3075.3
32.5°	4440.9	4409.9	4384.0	4381.4	4236.6	4096.9	3913.3	3652.0	3406.3	3383.0	3158.0
35°	4546.9	4518.5	4495.2	4500.4	4363.3	4226.2	4055.5	3807.2	3535.6	3509.8	3266.7
37.5°	4611.6	4601.3	4588.3	4606.4	4479.7	4350.4	4202.9	3957.2	3683.1	3659.8	3401.1
40°	4645.2	4637.5	4689.2	4712.5	4578.0	4461.6	4350.4	4112.4	3843.4	3817.6	3556.3
42.5°	4694.4	4759.0	4779.7	4774.5	4650.4	4546.9	4484.9	4280.5	4032.2	4009.0	3742.6
45°	4518.5	4503.0	4616.8	4678.8	4655.6	4601.3	4611.6	4482.3	4252.1	4228.8	3957.2
47.5°	4283.1	4262.4	4327.1	4479.7	4570.2	4621.9	4725.4	4691.8	4505.6	4484.9	4208.1
50°	3786.5	3815.0	4055.5	4259.8	4438.3	4616.8	4821.1	4916.8	4784.9	4764.2	4477.1
52.5°	3235.6	3264.1	3515.0	3985.7	4277.9	4578.0	4890.9	5141.8	5087.5	5064.2	4764.2
55°	2834.7	2896.8	3181.3	3522.7	4050.3	4456.4	4932.3	5372.0	5413.4	5392.7	5077.2
57.5°	2436.4	2483.0	2697.6	3000.3	3740.0	4244.3	4929.7	5586.7	5754.8	5734.1	5395.3
60°	1968.3	2027.8	2198.5	2524.4	3326.1	3990.9	4857.3	5754.8	6083.3	6067.8	5703.1
62.5°	1647.6	1665.7	1787.2	2069.1	2793.3	3670.1	4694.4	5845.3	6380.7	6370.4	5979.8
65°	1326.8	1329.4	1440.6	1676.0	2278.6	3271.8	4417.6	5811.7	6605.7	6610.9	6179.0
67.5°	1024.2	1037.2	1138.0	1316.5	1810.5	2754.5	4021.9	5584.1	6608.3	6621.2	6065.2
70°	708.7	719.0	871.6	1044.9	1399.3	2195.9	3486.5	4981.5	6065.2	6075.5	5436.7
72.5°	499.2	504.4	667.3	835.4	1094.1	1655.3	2630.4	4120.2	5170.3	5178.0	4572.8
75°	372.4	377.6	470.7	633.7	838.0	1145.8	1797.6	3155.4	4130.5	4130.5	3610.7
77.5°	263.8	266.4	305.2	437.1	558.7	773.3	1081.1	2066.6	3031.3	3036.5	2630.4
80°	178.5	181.0	199.2	294.9	349.2	419.0	587.1	1083.7	1911.4	1919.1	1670.8
82.5°	93.1	98.3	111.2	150.0	175.9	232.8	302.6	550.9	1057.8	1078.5	1003.5
85°	36.2	36.2	41.4	49.1	64.7	90.5	139.7	209.5	478.5	494.0	442.3
87.5°	12.9	12.9	15.5	15.5	18.1	20.7	23.3	31.0	54.3	54.3	51.7
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°	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0
2.5°	2788.2	2788.2	2775.2	2780.4	2777.8	2772.6	2767.5	2775.2	2767.5	2749.4	2746.8
5°	2793.3	2788.2	2767.5	2764.9	2757.1	2746.8	2733.9	2739.0	2726.1	2710.6	2708.0
7.5°	2795.9	2785.6	2757.1	2746.8	2731.3	2710.6	2689.9	2689.9	2671.8	2656.3	2653.7
10°	2790.8	2777.8	2739.0	2718.3	2689.9	2658.8	2630.4	2622.6	2601.9	2583.8	2583.8
12.5°	2793.3	2775.2	2726.1	2692.5	2653.7	2614.9	2578.7	2568.3	2550.2	2532.1	2529.5
15°	2808.9	2783.0	2720.9	2677.0	2620.0	2576.1	2537.3	2529.5	2514.0	2501.1	2501.1
17.5°	2824.4	2790.8	2713.2	2651.1	2581.3	2532.1	2495.9	2495.9	2485.6	2477.8	2477.8
20°	2832.1	2793.3	2697.6	2614.9	2534.7	2483.0	2449.3	2454.5	2451.9	2449.3	2449.3
22.5°	2850.2	2798.5	2684.7	2581.3	2485.6	2431.2	2400.2	2408.0	2405.4	2405.4	2408.0
25°	2878.7	2811.4	2674.4	2550.2	2439.0	2379.5	2345.9	2351.1	2351.1	2351.1	2351.1
27.5°	2917.5	2837.3	2671.8	2521.8	2392.4	2325.2	2283.8	2283.8	2273.5	2276.1	2278.6
30°	2977.0	2886.5	2677.0	2495.9	2343.3	2257.9	2208.8	2201.0	2198.5	2203.6	2206.2
32.5°	3049.4	2953.7	2708.0	2477.8	2291.6	2182.9	2120.9	2118.3	2110.5	2110.5	2110.5
35°	3139.9	3018.4	2736.4	2475.2	2239.8	2102.8	2035.5	2027.8	2009.7	2001.9	2001.9
37.5°	3256.3	3119.2	2770.1	2457.1	2195.9	2025.2	1945.0	1919.1	1898.4	1895.9	1895.9
40°	3398.6	3233.0	2819.2	2436.4	2149.3	1945.0	1838.9	1795.0	1797.6	1807.9	1807.9
42.5°	3566.7	3372.7	2881.3	2426.1	2082.1	1862.2	1714.8	1663.1	1681.2	1691.5	1694.1
45°	3763.2	3538.2	2951.1	2413.1	2020.0	1769.1	1582.9	1518.2	1526.0	1528.6	1531.2
47.5°	3990.9	3721.9	3023.5	2402.8	1950.2	1652.7	1438.1	1352.7	1350.1	1334.6	1339.8
50°	4228.8	3915.8	3098.5	2384.7	1864.8	1515.6	1285.5	1184.6	1163.9	1140.6	1143.2
52.5°	4482.3	4115.0	3168.4	2356.2	1758.8	1376.0	1140.6	1032.0	990.6	964.7	969.9
55°	4761.6	4319.3	3235.6	2312.3	1647.6	1236.3	1011.3	900.1	848.3	827.7	830.2
57.5°	5017.7	4515.9	3284.8	2257.9	1526.0	1109.6	897.5	788.9	755.2	752.6	755.2
60°	5266.0	4681.4	3305.5	2182.9	1401.8	993.2	791.4	708.7	685.4	698.3	700.9
62.5°	5475.5	4787.5	3295.1	2082.1	1275.1	882.0	706.1	646.6	631.1	657.0	659.5
65°	5597.0	4821.1	3222.7	1937.2	1138.0	773.3	625.9	561.3	553.5	569.0	576.8
67.5°	5436.7	4611.6	3026.1	1738.1	985.4	672.5	548.3	496.6	483.7	496.6	496.6
70°	4818.5	3996.0	2560.6	1422.5	817.3	574.2	475.9	439.7	429.3	439.7	437.1
72.5°	4014.1	3323.6	2017.4	1109.6	644.0	483.7	413.8	380.2	369.9	359.5	354.3
75°	3114.1	2524.4	1463.9	814.7	486.2	388.0	346.6	315.5	289.7	300.0	294.9
77.5°	2281.2	1771.7	1037.2	563.8	349.2	300.0	271.6	248.3	230.2	250.9	248.3
80°	1469.1	1145.8	693.2	377.6	240.5	209.5	199.2	186.2	204.3	266.4	271.6
82.5°	897.5	726.8	413.8	245.7	157.8	139.7	129.3	129.3	209.5	230.2	232.8
85°	400.9	385.4	225.0	126.7	87.9	80.2	72.4	93.1	85.4	62.1	64.7
87.5°	64.7	67.2	49.1	44.0	33.6	33.6	25.9	18.1	12.9	7.8	7.8
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)