

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: P799348

Luminaire Tested: **ARCH2-110-722-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7675 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

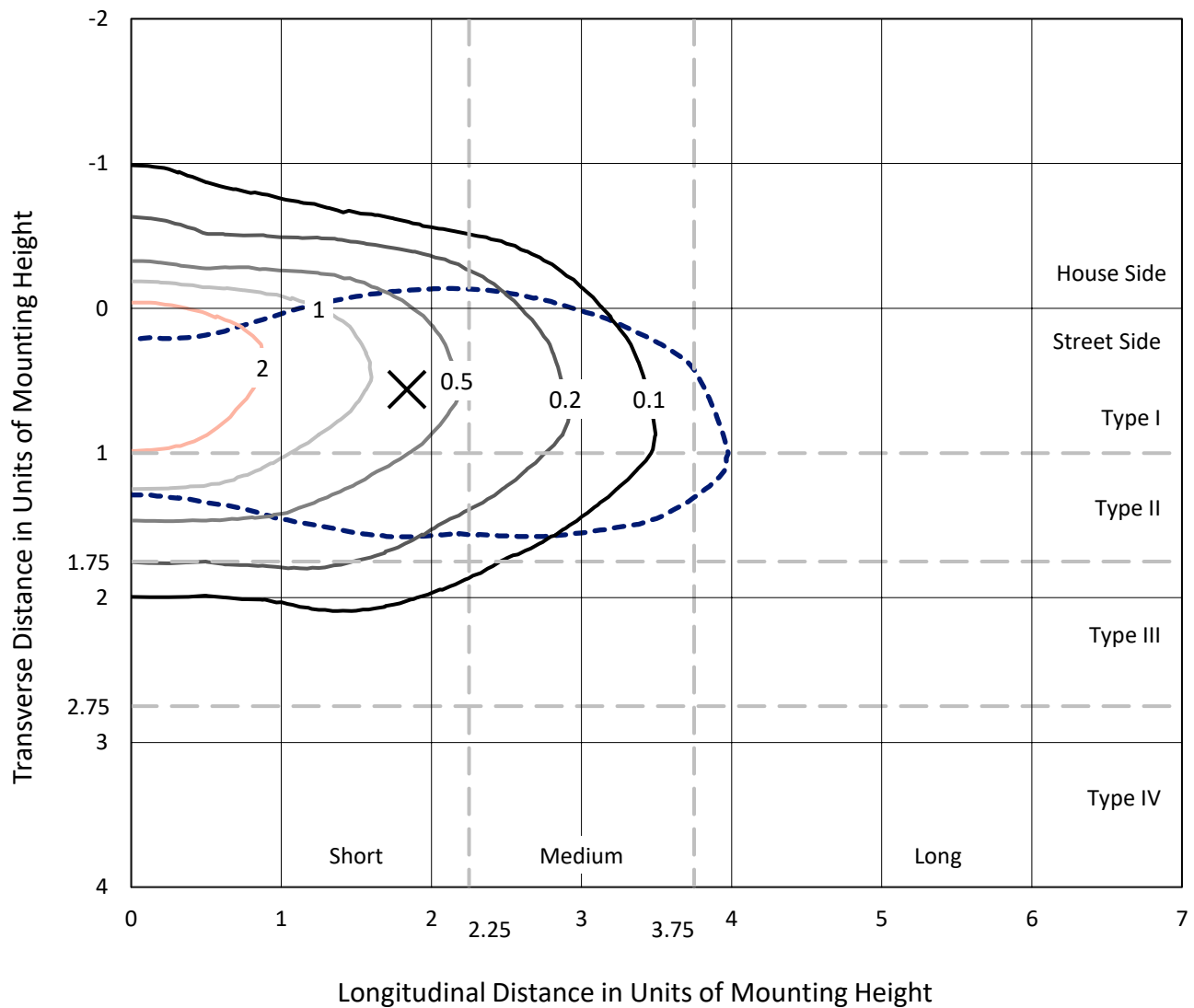


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Iso-Footcandle Lines of Horizontal Illumination

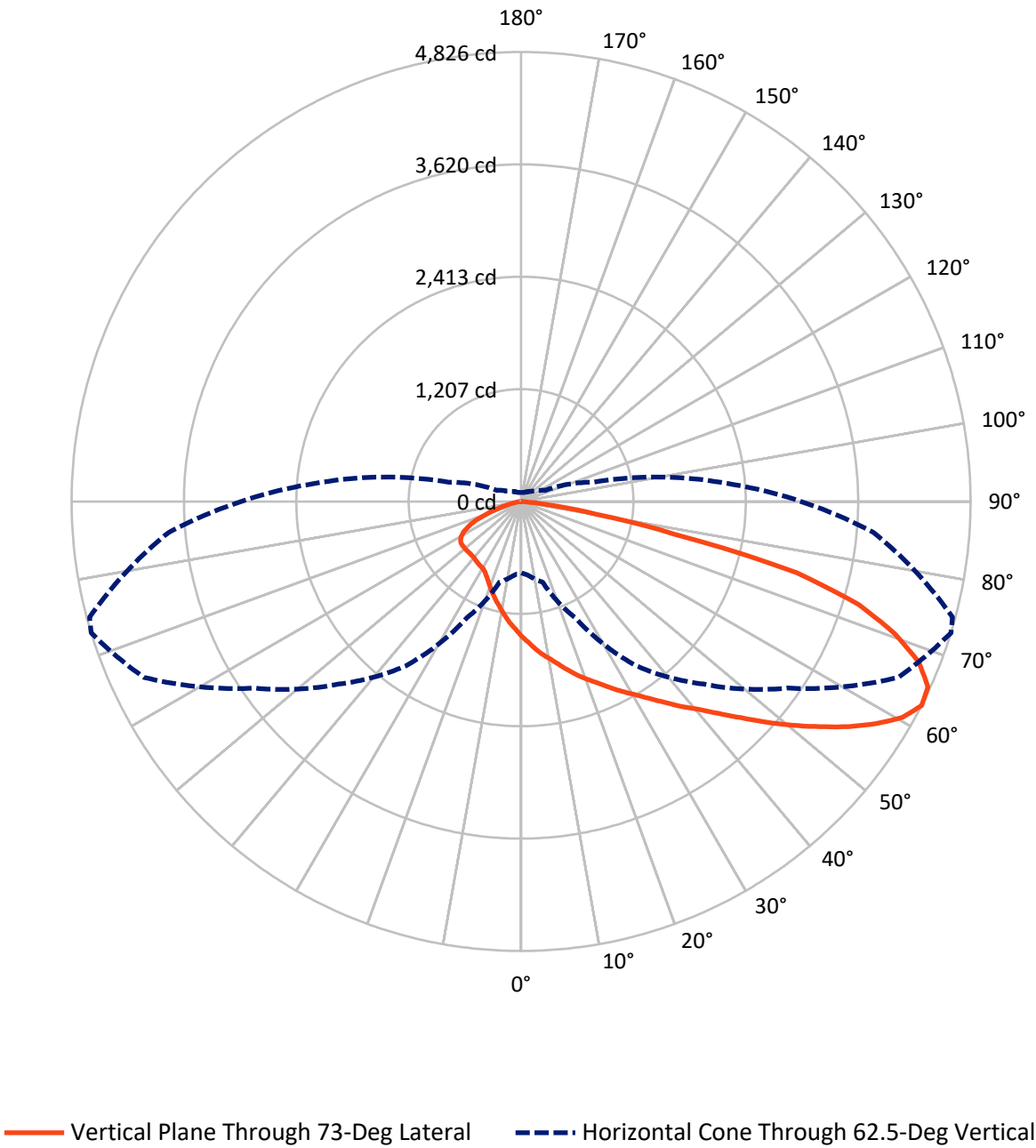
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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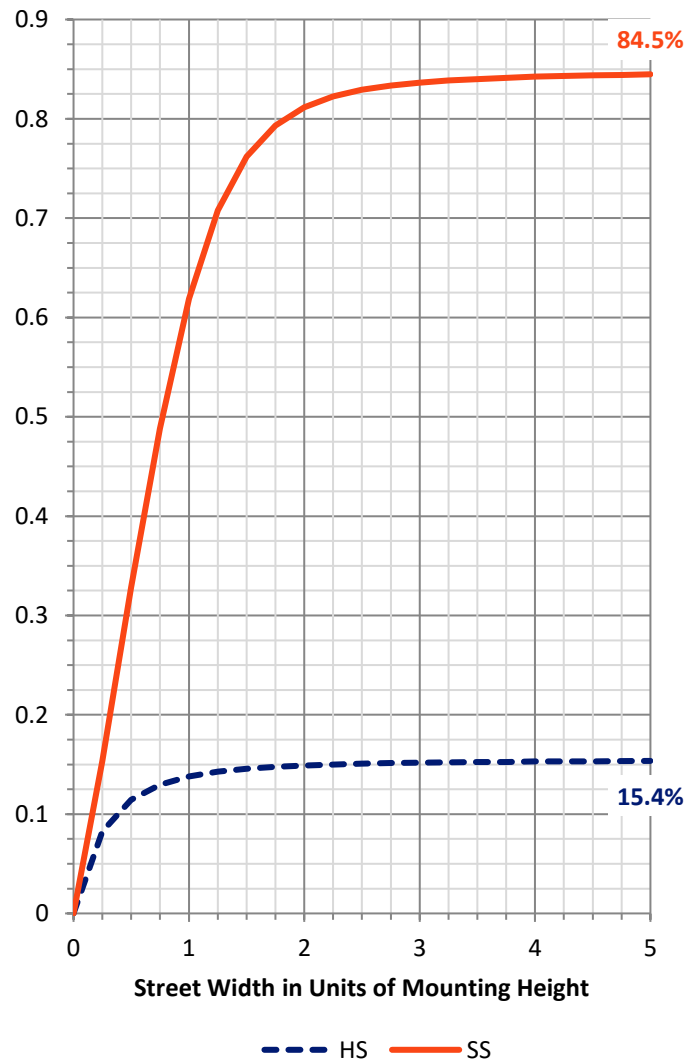
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1189.7	0.0	1189.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6485.3	0.0	6485.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	7675.0	0.0	7675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	1.8
10°-20°	423.7	5.5
20°-30°	705.2	9.2
30°-40°	1064.0	13.9
40°-50°	1487.2	19.4
50°-60°	1642.7	21.4
60°-70°	1431.0	18.6
70°-80°	722.9	9.4
80°-90°	58.0	0.8
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°	7675.0	100.0
0°-180°	7675.0	100.0

Coefficient of Utilization



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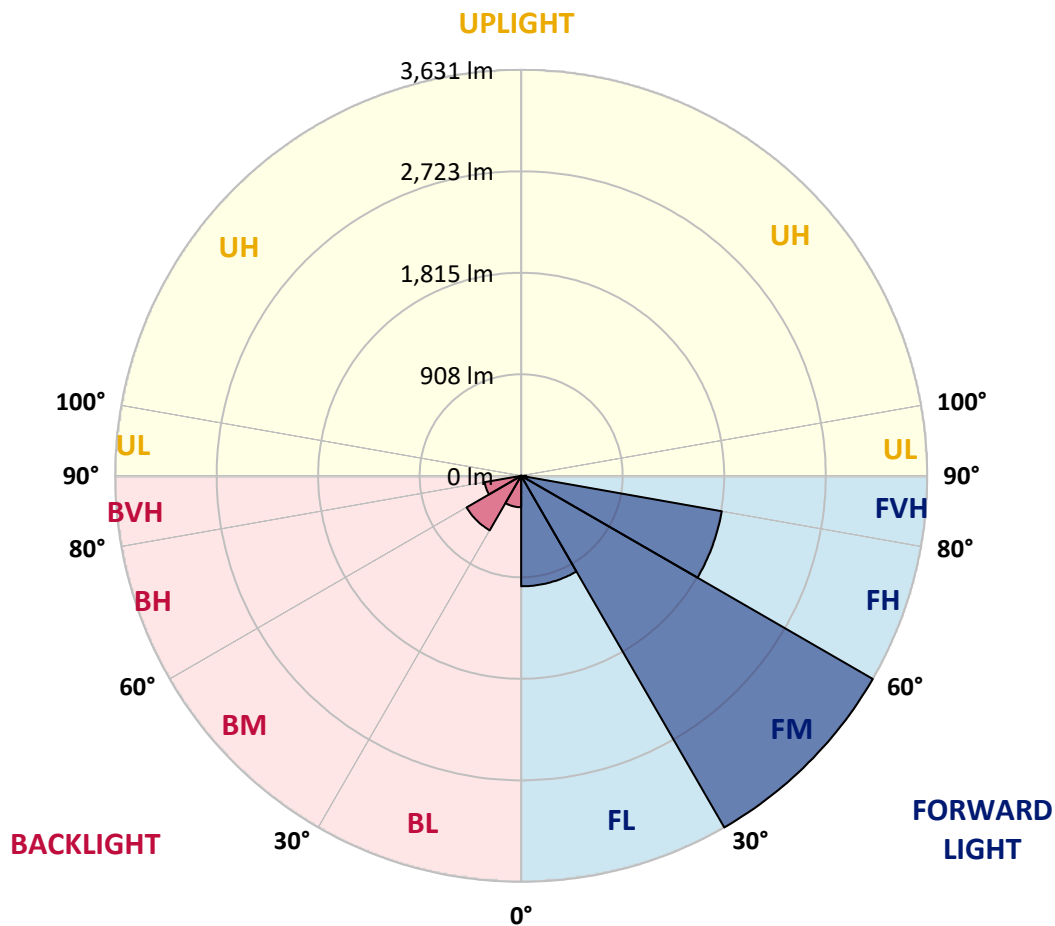
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	988.0	12.9			
FM	(30°-60°)	3630.6	47.3			
FH	(60°-80°)	1821.8	23.7			G2/5000
FVH	(80°-90°)	44.9	0.6			G1/100
BL	(0°-30°)	281.2	3.7	B1/500		
BM	(30°-60°)	563.3	7.3	B1/1000		
BH	(60°-80°)	332.1	4.3	B1/500		G1/500
BVH	(80°-90°)	13.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3
2.5°	1654.0	1672.4	1662.3	1669.0	1635.6	1613.8	1588.7	1540.2	1513.5	1510.1	1478.4
5°	1896.5	1916.5	1899.8	1894.8	1836.2	1786.1	1729.2	1643.9	1587.1	1577.0	1506.8
7.5°	2138.9	2157.3	2137.3	2122.2	2043.6	1955.0	1871.4	1745.9	1657.3	1640.6	1530.2
10°	2309.5	2326.2	2311.2	2296.1	2214.2	2123.9	2005.2	1841.3	1720.9	1694.1	1545.3
12.5°	2438.3	2448.3	2441.6	2428.3	2351.3	2254.3	2140.6	1948.3	1792.8	1759.3	1568.7
15°	2543.7	2560.4	2552.0	2542.0	2468.4	2371.4	2262.7	2060.3	1876.4	1834.6	1603.8
17.5°	2613.9	2625.6	2627.3	2627.3	2562.0	2466.7	2361.4	2162.4	1960.0	1906.5	1637.2
20°	2645.7	2659.0	2667.4	2680.8	2627.3	2545.3	2438.3	2249.3	2038.6	1978.4	1669.0
22.5°	2660.7	2672.4	2694.2	2724.3	2680.8	2612.2	2513.6	2329.6	2117.2	2053.7	1705.8
25°	2672.4	2687.5	2719.3	2776.1	2746.0	2687.5	2602.2	2421.6	2210.9	2145.6	1759.3
27.5°	2704.2	2722.6	2752.7	2821.3	2784.5	2756.0	2695.8	2520.2	2309.5	2242.6	1824.5
30°	2814.6	2829.6	2828.0	2871.4	2826.3	2817.9	2776.1	2615.6	2404.8	2338.0	1901.5
32.5°	3015.3	3030.3	2993.5	2976.8	2878.1	2879.8	2863.1	2717.6	2518.6	2450.0	1990.1
35°	3231.0	3247.7	3199.2	3170.8	3005.2	2956.7	2965.1	2844.7	2645.7	2577.1	2100.5
37.5°	3423.3	3443.4	3401.6	3359.8	3192.5	3080.5	3078.8	2986.8	2791.2	2720.9	2222.6
40°	3528.7	3552.1	3577.2	3553.8	3378.2	3254.4	3200.9	3132.3	2935.0	2863.1	2354.7
42.5°	3578.8	3644.1	3689.2	3674.2	3530.3	3404.9	3341.4	3284.5	3110.6	3040.3	2511.9
45°	3438.4	3440.0	3535.4	3617.3	3590.5	3506.9	3495.2	3455.1	3311.3	3244.4	2689.1
47.5°	3262.8	3249.4	3316.3	3461.8	3537.0	3558.8	3627.3	3644.1	3540.4	3473.5	2869.8
50°	2841.3	2849.7	3067.1	3276.1	3423.3	3563.8	3721.0	3838.1	3776.2	3712.6	3060.4
52.5°	2311.2	2331.3	2580.4	3040.3	3272.8	3513.6	3776.2	4032.1	4017.0	3956.8	3251.1
55°	1853.0	1884.7	2149.0	2647.3	3080.5	3401.6	3799.6	4209.3	4266.2	4211.0	3438.4
57.5°	1416.5	1449.9	1672.4	2184.1	2834.6	3219.3	3782.9	4364.8	4498.6	4463.5	3610.6
60°	1067.0	1100.4	1242.6	1771.0	2526.9	3015.3	3699.3	4466.9	4707.7	4670.9	3736.0
62.5°	764.3	791.0	896.4	1378.0	2152.3	2772.8	3493.6	4468.5	4826.4	4796.3	3796.2
65°	550.2	550.2	635.5	983.3	1801.1	2481.8	3182.5	4262.8	4801.3	4793.0	3754.4
67.5°	396.3	399.7	468.3	687.3	1436.6	2128.9	2779.5	3896.6	4607.3	4649.2	3603.9
70°	281.0	289.3	321.1	480.0	1085.4	1680.7	2348.0	3416.6	4257.8	4331.4	3312.9
72.5°	217.4	222.4	244.2	334.5	792.7	1249.3	1871.4	2881.5	3791.2	3874.8	2916.6
75°	167.2	172.3	189.0	245.8	568.6	876.3	1329.5	2235.9	3057.1	3205.9	2343.0
77.5°	122.1	128.8	140.5	178.9	331.1	556.9	806.1	1257.6	1687.4	1757.6	1227.5
80°	56.9	65.2	81.9	115.4	178.9	262.6	286.0	485.0	811.1	847.9	665.6
82.5°	31.8	40.1	46.8	70.2	90.3	93.7	97.0	122.1	306.0	337.8	279.3
85°	15.1	20.1	21.7	30.1	30.1	26.8	31.8	23.4	50.2	60.2	58.5
87.5°	0.0	1.7	3.3	8.4	6.7	5.0	5.0	5.0	5.0	6.7	5.0
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°	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3
2.5°	1463.3	1441.6	1391.4	1347.9	1319.5	1294.4	1261.0	1245.9	1219.1	1224.2	1209.1
5°	1471.7	1431.5	1342.9	1261.0	1200.8	1147.2	1088.7	1055.3	1018.5	1015.1	1003.4
7.5°	1476.7	1414.8	1287.7	1172.3	1080.3	998.4	919.8	876.3	831.2	821.1	811.1
10°	1471.7	1389.7	1230.9	1080.3	958.3	856.2	767.6	712.4	665.6	653.9	643.9
12.5°	1476.7	1376.3	1177.3	995.1	849.6	734.2	633.8	577.0	533.5	521.8	515.1
15°	1488.4	1368.0	1132.2	918.1	752.6	623.8	525.1	476.6	441.5	429.8	426.5
17.5°	1498.4	1359.6	1083.7	842.9	655.6	526.8	441.5	401.4	371.3	359.6	356.2
20°	1511.8	1347.9	1035.2	771.0	570.3	449.9	374.6	339.5	316.1	307.7	306.0
22.5°	1523.5	1339.6	990.0	699.0	491.7	388.0	324.4	296.0	279.3	270.9	270.9
25°	1553.6	1342.9	951.6	632.2	433.1	339.5	286.0	264.2	250.9	245.8	245.8
27.5°	1588.7	1356.3	921.5	575.3	383.0	302.7	259.2	240.8	234.1	227.4	229.1
30°	1638.9	1383.0	901.4	528.5	346.2	274.3	237.5	224.1	217.4	215.7	215.7
32.5°	1702.5	1426.5	899.7	498.4	319.4	252.5	222.4	210.7	207.4	205.7	205.7
35°	1777.7	1465.0	889.7	485.0	302.7	237.5	210.7	202.4	200.7	200.7	200.7
37.5°	1868.0	1528.5	883.0	466.6	294.3	229.1	202.4	195.7	195.7	195.7	195.7
40°	1961.7	1580.4	873.0	449.9	291.0	224.1	197.3	189.0	189.0	189.0	189.0
42.5°	2073.7	1655.6	869.6	441.5	286.0	220.8	190.6	180.6	182.3	182.3	184.0
45°	2209.2	1740.9	868.0	433.1	284.3	217.4	184.0	172.3	173.9	172.3	172.3
47.5°	2346.3	1839.6	873.0	428.1	282.6	214.1	178.9	163.9	163.9	162.2	162.2
50°	2490.1	1929.9	876.3	423.1	279.3	207.4	170.6	157.2	153.9	150.5	152.2
52.5°	2625.6	2013.5	878.0	414.7	269.2	197.3	163.9	148.8	143.8	138.8	140.5
55°	2761.1	2093.8	881.3	404.7	255.9	187.3	155.5	140.5	133.8	127.1	127.1
57.5°	2883.1	2164.0	873.0	379.6	240.8	177.3	147.2	130.4	120.4	113.7	113.7
60°	2966.8	2214.2	847.9	342.8	220.8	165.6	138.8	120.4	108.7	103.7	103.7
62.5°	3006.9	2222.6	802.7	282.6	195.7	153.9	128.8	110.4	100.3	97.0	97.0
65°	2968.4	2185.8	732.5	212.4	168.9	140.5	118.7	102.0	92.0	83.6	83.6
67.5°	2834.6	2082.1	635.5	160.5	143.8	127.1	108.7	93.7	81.9	75.3	75.3
70°	2565.4	1866.3	491.7	128.8	122.1	110.4	98.7	83.6	73.6	65.2	65.2
72.5°	2212.5	1582.0	346.2	103.7	103.7	93.7	83.6	73.6	63.5	56.9	56.9
75°	1697.4	1170.6	232.5	83.6	85.3	78.6	68.6	60.2	53.5	48.5	48.5
77.5°	926.5	578.6	142.2	61.9	63.5	60.2	53.5	48.5	45.2	40.1	40.1
80°	449.9	254.2	81.9	43.5	45.2	43.5	40.1	35.1	35.1	31.8	31.8
82.5°	189.0	95.3	43.5	30.1	30.1	26.8	25.1	25.1	25.1	23.4	23.4
85°	46.8	18.4	18.4	16.7	16.7	16.7	15.1	15.1	15.1	11.7	13.4
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	5.0	1.7	0.0	0.0	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)