

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: P799367

Luminaire Tested: **ARCH2-110-727-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12642 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - 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

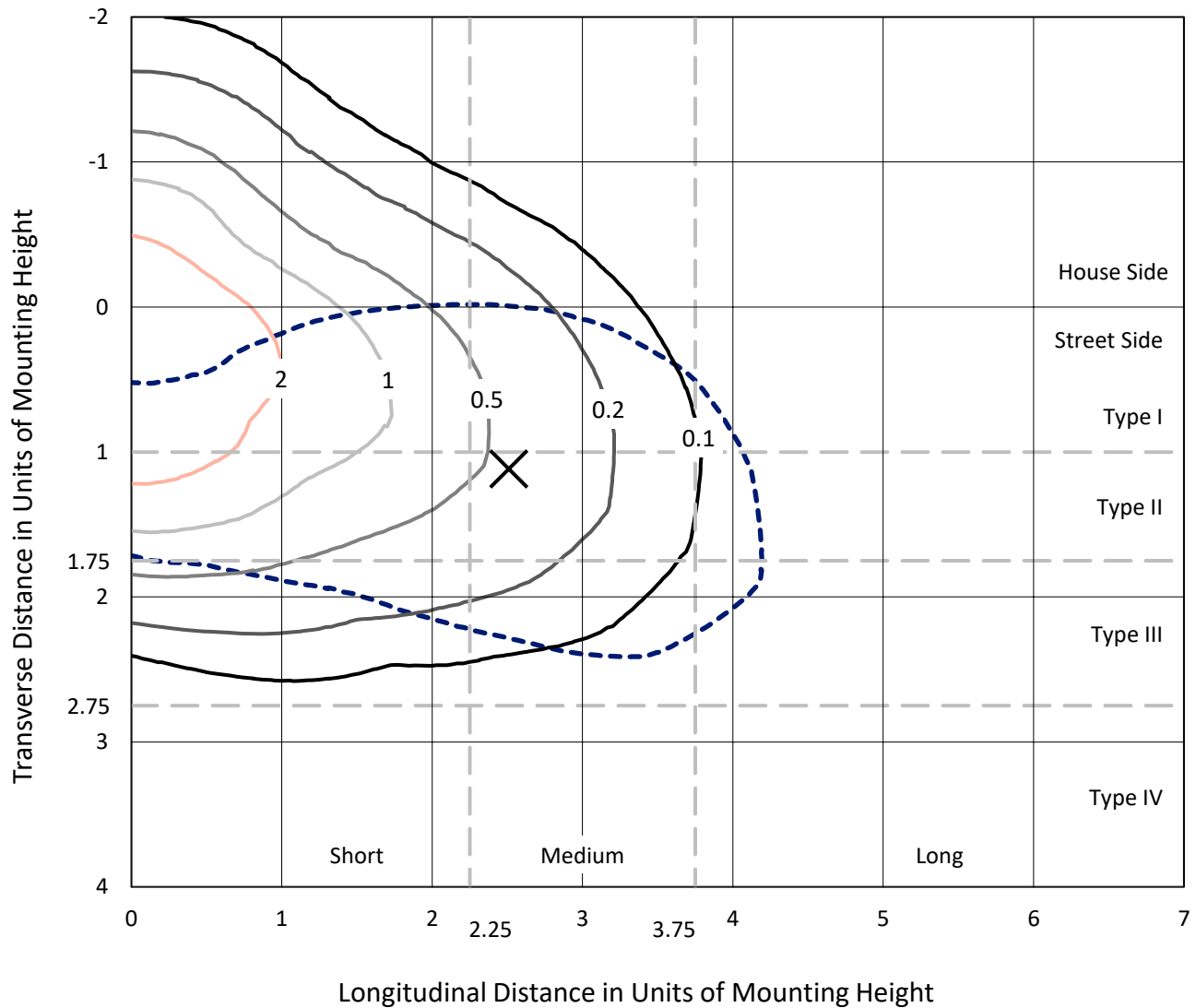


REPORT NUMBER: P799367

CATALOG NUMBER: ARCH2-110-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

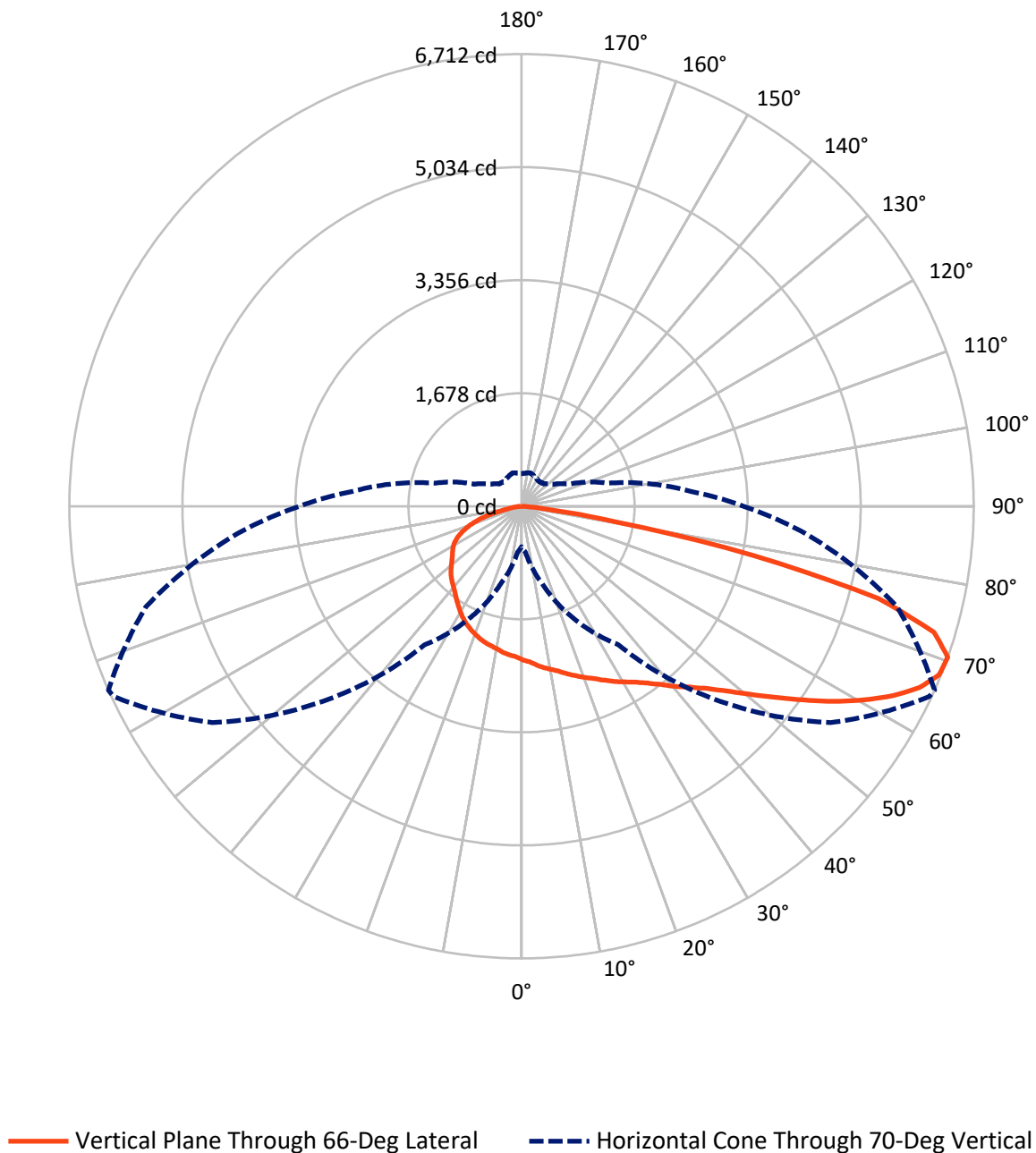


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Medium - N/A

REPORT NUMBER: P799367

CATALOG NUMBER: ARCH2-110-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P799367

CATALOG NUMBER: ARCH2-110-727-U-T3

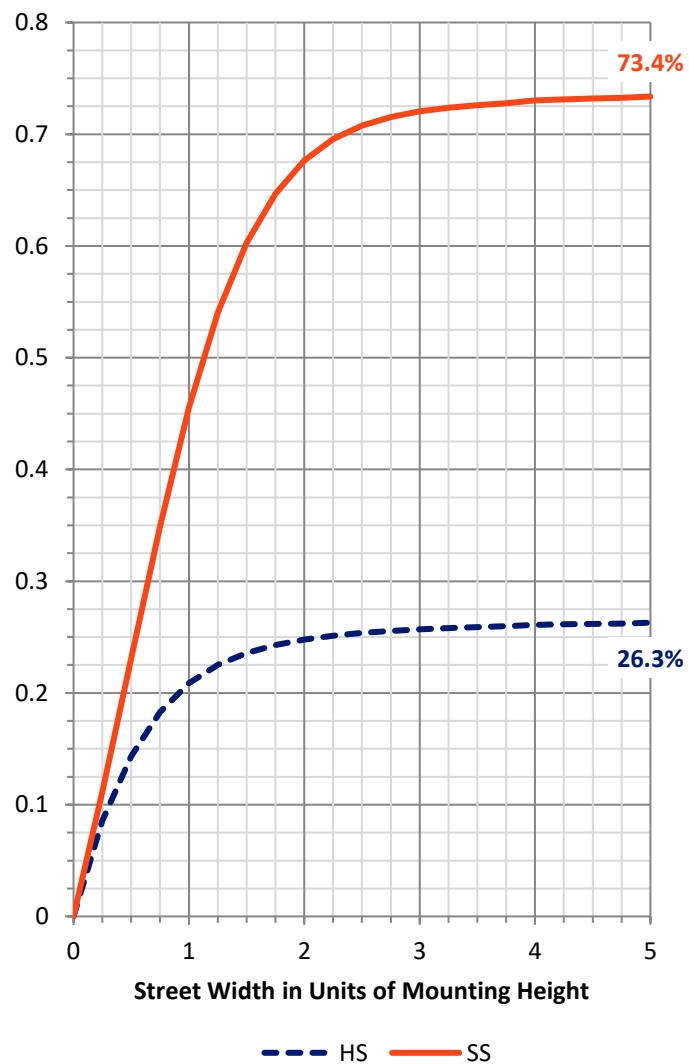
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3349.8	0.0	3349.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	9292.2	0.0	9292.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	12642.0	0.0	12642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.2	1.7
10°-20°	657.6	5.2
20°-30°	1102.4	8.7
30°-40°	1650.7	13.1
40°-50°	2206.9	17.5
50°-60°	2576.7	20.4
60°-70°	2562.1	20.3
70°-80°	1516.8	12.0
80°-90°	149.5	1.2
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°	12642.0	100.0
0°-180°	12642.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799367

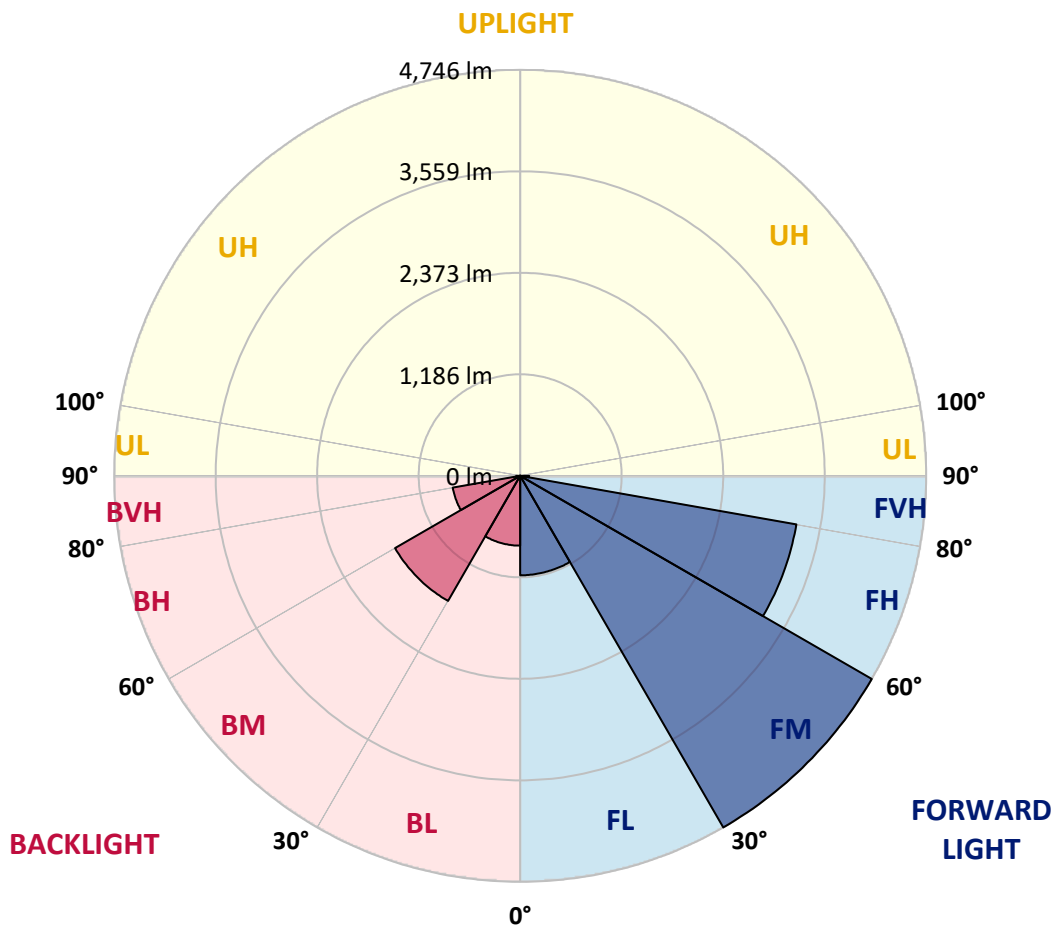
CATALOG NUMBER: ARCH2-110-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1162.7	9.2			
FM	(30°-60°)	4745.6	37.5			
FH	(60°-80°)	3278.7	25.9			G2/5000
FVH	(80°-90°)	105.1	0.8			G2/225
BL	(0°-30°)	816.5	6.5	B2/1000		
BM	(30°-60°)	1688.7	13.4	B2/2500		
BH	(60°-80°)	800.2	6.3	B2/1000		G2/1000
BVH	(80°-90°)	44.4	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 III Medium



REPORT NUMBER: P799367

CATALOG NUMBER: ARCH2-110-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2281.6	2281.6	2281.6	2281.6	2281.6	2281.6	2281.6	2281.6	2281.6	2281.6	2281.6
2.5°	2365.5	2361.7	2359.9	2352.4	2335.7	2343.1	2326.3	2315.1	2313.3	2287.2	2272.3
5°	2462.4	2460.5	2456.8	2445.6	2419.5	2423.3	2395.3	2374.8	2369.2	2328.2	2296.5
7.5°	2544.4	2540.7	2538.8	2523.9	2496.0	2494.1	2460.5	2430.7	2421.4	2365.5	2317.0
10°	2607.8	2602.2	2605.9	2591.0	2561.2	2555.6	2512.7	2473.6	2464.3	2393.4	2326.3
12.5°	2661.9	2658.1	2663.7	2650.7	2626.4	2620.8	2578.0	2527.6	2516.5	2434.4	2346.8
15°	2721.5	2708.5	2719.6	2714.1	2697.3	2695.4	2656.3	2600.3	2585.4	2486.6	2378.5
17.5°	2753.2	2745.7	2758.8	2760.7	2753.2	2766.2	2729.0	2661.9	2648.8	2535.1	2406.5
20°	2775.6	2764.4	2779.3	2790.5	2796.1	2822.2	2792.3	2727.1	2712.2	2581.7	2432.6
22.5°	2852.0	2827.8	2829.6	2837.1	2840.8	2878.1	2859.4	2796.1	2781.2	2639.5	2464.3
25°	3044.0	2995.5	2963.8	2941.5	2915.4	2947.1	2935.9	2874.4	2861.3	2708.5	2503.4
27.5°	3342.2	3280.7	3217.3	3152.1	3049.6	3036.5	3017.9	2962.0	2947.1	2777.4	2542.6
30°	3681.5	3620.0	3545.4	3441.0	3249.0	3148.4	3105.5	3044.0	3027.2	2838.9	2579.8
32.5°	4018.9	3964.8	3890.3	3763.5	3489.5	3284.5	3193.1	3129.7	3113.0	2906.0	2624.6
35°	4281.7	4248.2	4199.7	4041.3	3728.1	3444.8	3319.9	3243.4	3224.8	3012.3	2706.6
37.5°	4494.2	4470.0	4429.0	4263.1	3901.4	3605.1	3465.3	3377.7	3357.1	3127.9	2794.2
40°	4807.4	4744.0	4710.4	4470.0	4052.4	3750.5	3629.3	3538.0	3515.6	3250.9	2865.0
42.5°	5073.9	5027.3	4986.3	4654.5	4196.0	3875.4	3784.0	3700.1	3670.3	3372.1	2941.5
45°	5118.7	5137.3	5116.8	4745.9	4423.4	3998.4	3940.6	3886.5	3858.6	3536.1	3057.0
47.5°	5120.5	5120.5	4999.4	4798.1	4704.9	4136.3	4108.4	4127.0	4097.2	3744.9	3195.0
50°	4986.3	5010.6	4947.2	4811.1	4779.4	4274.3	4313.4	4414.1	4384.2	3966.7	3344.1
52.5°	4708.6	4788.7	4786.9	4790.6	4671.3	4391.7	4529.6	4758.9	4708.6	4216.5	3502.5
55°	4218.3	4378.6	4522.2	4645.2	4578.1	4462.5	4794.3	5126.1	5073.9	4496.1	3662.9
57.5°	3798.9	3901.4	4080.4	4429.0	4468.1	4524.0	5042.2	5510.1	5463.5	4805.5	3830.6
60°	3319.9	3461.5	3640.5	4136.3	4333.9	4604.2	5314.4	5884.8	5840.1	5118.7	3992.8
62.5°	2583.6	2766.2	3124.1	3687.1	4138.2	4654.5	5528.8	6214.7	6194.2	5415.1	4138.2
65°	1800.7	1962.8	2464.3	3135.3	3826.9	4632.2	5700.3	6509.3	6490.6	5657.4	4240.7
67.5°	1051.3	1239.6	1806.3	2523.9	3277.0	4477.4	5756.2	6682.6	6682.6	5804.6	4268.7
70°	600.2	687.8	1191.1	1839.8	2512.7	4050.6	5599.6	6680.7	6712.4	5771.1	4153.1
72.5°	419.4	458.6	801.5	1237.7	1703.7	3277.0	5189.5	6358.3	6401.1	5454.2	3757.9
75°	326.2	354.2	564.8	844.4	1073.7	2225.7	4292.9	5361.0	5474.7	4648.9	3038.4
77.5°	247.9	268.4	329.9	527.5	687.8	1278.7	2833.4	3515.6	3523.0	2846.4	1629.2
80°	180.8	201.3	220.0	322.5	365.4	598.4	1070.0	1468.9	1427.9	1377.5	881.7
82.5°	108.1	128.6	134.2	175.2	178.9	255.4	374.7	473.5	454.8	605.8	413.8
85°	46.6	65.2	69.0	80.2	76.4	104.4	149.1	124.9	111.8	128.6	89.5
87.5°	11.2	18.6	18.6	20.5	16.8	26.1	28.0	20.5	18.6	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P799367

CATALOG NUMBER: ARCH2-110-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2281.6	2281.6	2281.6	2281.6	2281.6	2281.6	2281.6	2281.6	2281.6	2281.6	2281.6
2.5°	2268.5	2263.0	2264.8	2233.1	2223.8	2214.5	2208.9	2205.2	2201.4	2207.0	2212.6
5°	2285.3	2272.3	2257.4	2210.8	2192.1	2171.6	2156.7	2143.7	2138.1	2138.1	2143.7
7.5°	2298.4	2276.0	2244.3	2182.8	2149.2	2121.3	2097.1	2080.3	2071.0	2071.0	2076.5
10°	2300.2	2268.5	2218.2	2143.7	2098.9	2057.9	2029.9	2011.3	1998.3	1998.3	2002.0
12.5°	2311.4	2268.5	2203.3	2113.8	2057.9	2007.6	1974.0	1946.1	1940.5	1940.5	1944.2
15°	2330.1	2277.9	2194.0	2087.7	2020.6	1962.8	1925.6	1895.7	1884.6	1892.0	1893.9
17.5°	2346.8	2283.5	2177.2	2054.2	1974.0	1910.6	1869.6	1843.5	1828.6	1845.4	1845.4
20°	2358.0	2283.5	2153.0	2011.3	1923.7	1852.9	1813.7	1782.0	1770.8	1791.3	1793.2
22.5°	2374.8	2281.6	2126.9	1968.4	1869.6	1795.1	1755.9	1731.7	1726.1	1748.5	1755.9
25°	2393.4	2285.3	2098.9	1920.0	1810.0	1737.3	1707.5	1696.3	1700.0	1728.0	1737.3
27.5°	2413.9	2292.8	2071.0	1865.9	1744.7	1679.5	1662.7	1668.3	1683.2	1718.7	1729.8
30°	2432.6	2294.6	2031.8	1802.5	1670.2	1608.7	1616.1	1640.4	1662.7	1698.1	1711.2
32.5°	2456.8	2296.5	1990.8	1733.6	1590.0	1545.3	1578.8	1618.0	1640.4	1673.9	1688.8
35°	2516.5	2328.2	1959.1	1666.5	1515.5	1491.2	1547.2	1597.5	1610.5	1640.4	1653.4
37.5°	2585.4	2380.4	1942.3	1597.5	1442.8	1437.2	1508.0	1558.3	1562.1	1580.7	1593.8
40°	2628.3	2402.8	1923.7	1539.7	1377.5	1381.3	1454.0	1493.1	1485.6	1498.7	1508.0
42.5°	2671.2	2410.2	1884.6	1491.2	1316.0	1319.7	1375.7	1403.6	1407.4	1435.3	1448.4
45°	2743.9	2430.7	1841.7	1446.5	1260.1	1247.0	1280.6	1317.9	1366.3	1420.4	1435.3
47.5°	2840.8	2473.6	1796.9	1392.4	1206.0	1163.2	1176.2	1241.5	1291.8	1342.1	1351.4
50°	2939.6	2516.5	1755.9	1327.2	1152.0	1073.7	1079.3	1138.9	1179.9	1219.1	1224.7
52.5°	3036.5	2553.7	1720.5	1265.7	1090.5	967.4	989.8	1051.3	1079.3	1097.9	1103.5
55°	3133.5	2585.4	1688.8	1213.5	1019.6	883.6	904.1	961.8	989.8	999.1	1002.9
57.5°	3234.1	2622.7	1664.6	1168.8	939.5	809.0	822.0	863.1	889.2	900.3	896.6
60°	3318.0	2654.4	1651.5	1122.2	859.3	740.0	736.3	773.6	810.9	822.0	818.3
62.5°	3383.2	2674.9	1631.0	1062.5	788.5	671.1	652.4	700.9	740.0	747.5	753.1
65°	3418.7	2676.8	1580.7	986.1	715.8	596.5	583.4	631.9	656.1	663.6	663.6
67.5°	3413.1	2646.9	1481.9	883.6	648.7	529.4	518.2	548.0	583.4	589.0	583.4
70°	3297.5	2523.9	1323.5	775.4	568.5	469.7	449.2	479.1	512.6	492.1	482.8
72.5°	2969.4	2205.2	1090.5	656.1	479.1	395.2	385.9	415.7	417.5	421.3	412.0
75°	2343.1	1642.2	816.5	510.7	387.7	331.8	329.9	324.3	331.8	346.7	335.5
77.5°	1230.3	820.2	441.8	313.2	281.5	266.6	253.5	251.6	274.0	283.3	272.2
80°	667.3	460.4	253.5	188.3	171.5	173.4	190.1	186.4	210.6	216.2	206.9
82.5°	290.8	218.1	124.9	113.7	113.7	111.8	117.4	130.5	156.6	156.6	124.9
85°	63.4	54.1	48.5	55.9	63.4	63.4	63.4	63.4	44.7	24.2	16.8
87.5°	20.5	20.5	20.5	22.4	24.2	24.2	20.5	14.9	9.3	1.9	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)