

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: P799241

Luminaire Tested: **ARCH2-100-727-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11762 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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



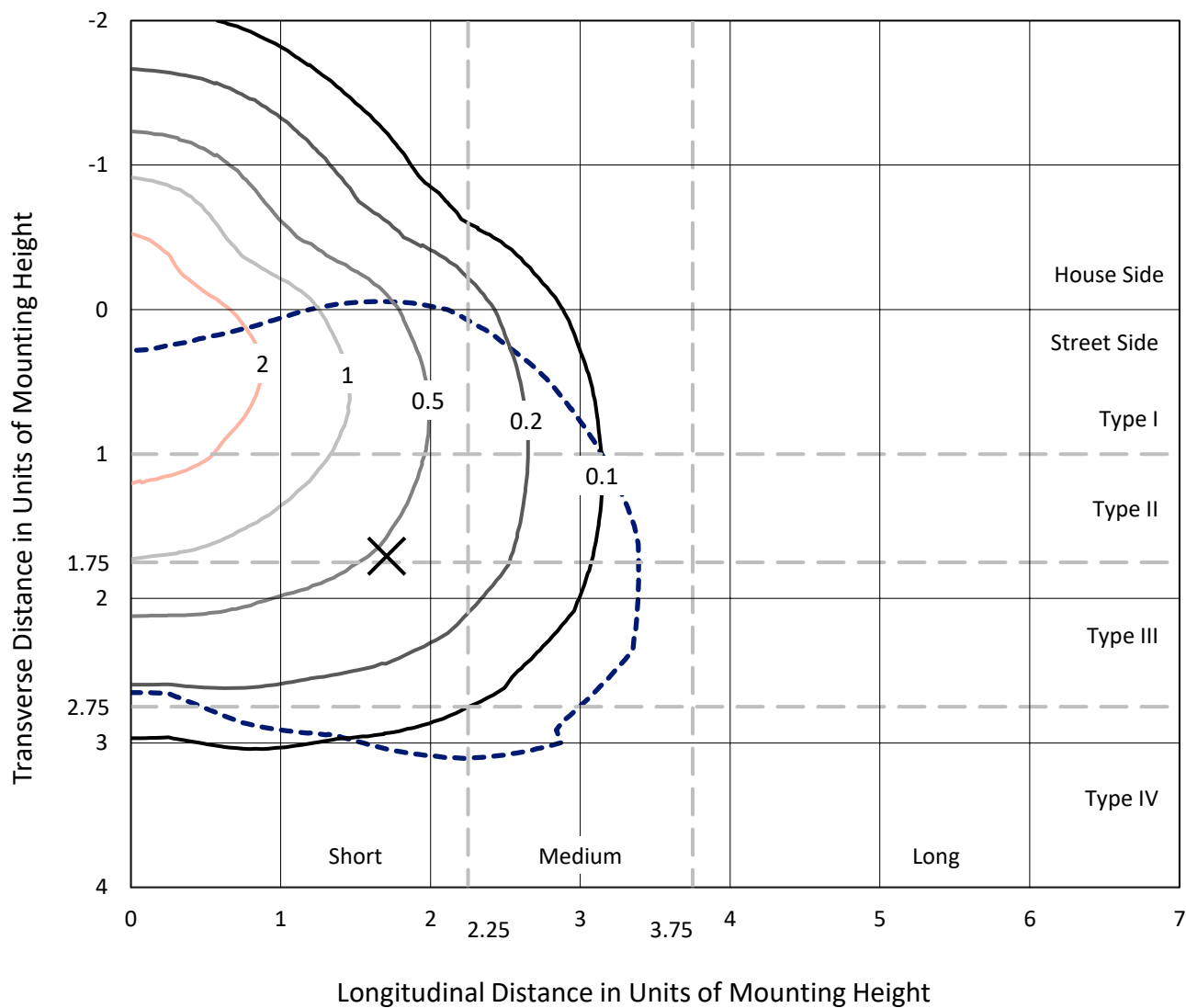
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

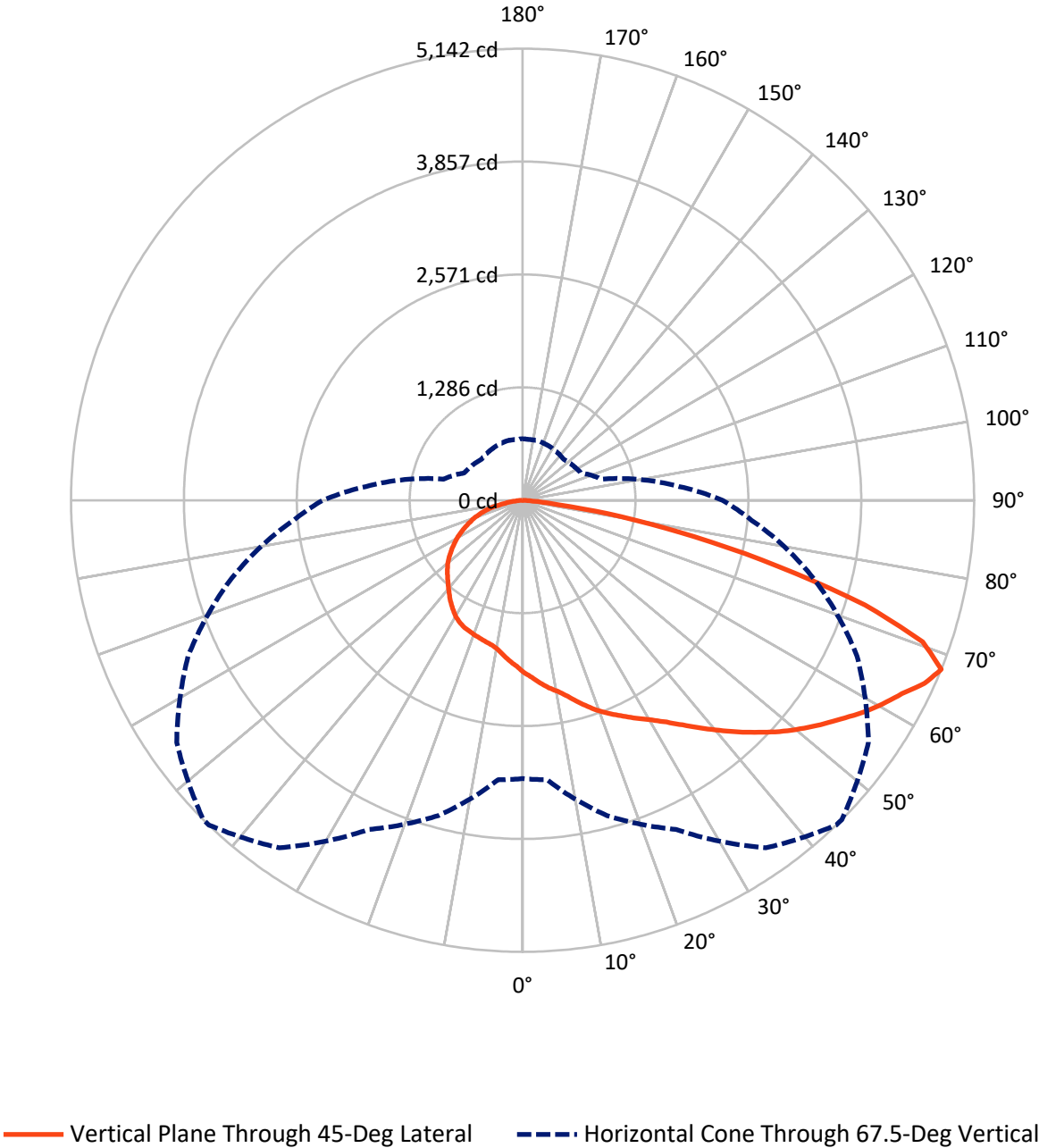


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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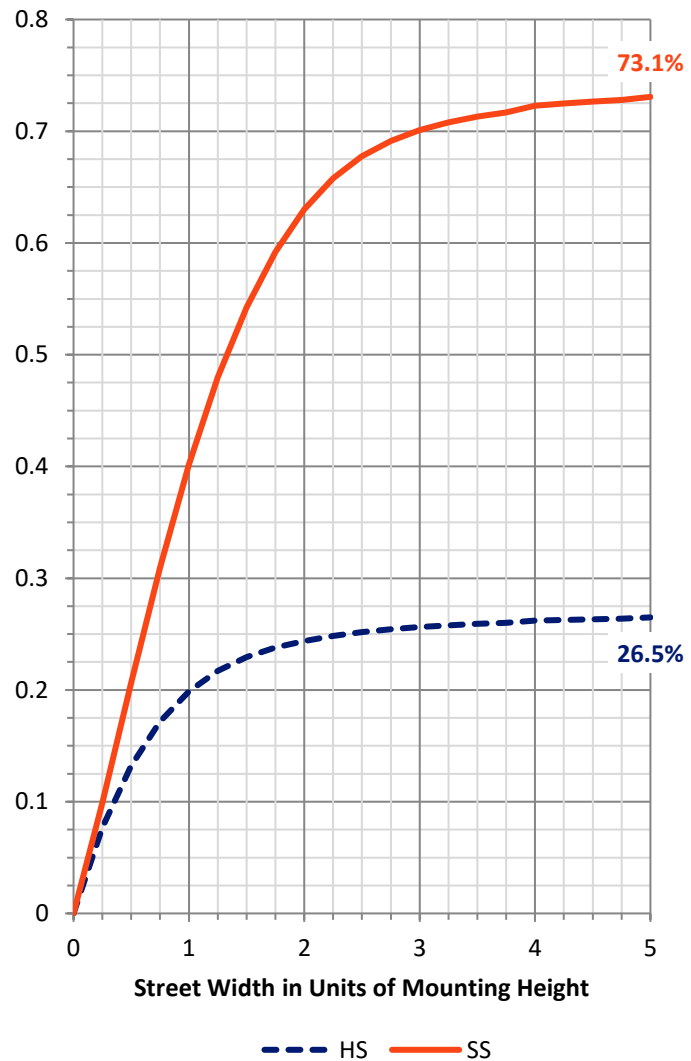
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3142.2	0.0	3142.2
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8619.8	0.0	8619.8
	% Fixture	73.3	0.0	73.3
Total	Lumens	11762.0	0.0	11762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	1.6
10°-20°	580.2	4.9
20°-30°	1001.5	8.5
30°-40°	1476.9	12.6
40°-50°	2000.9	17.0
50°-60°	2445.5	20.8
60°-70°	2522.2	21.4
70°-80°	1381.5	11.7
80°-90°	165.6	1.4
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°	11762.0	100.0
0°-180°	11762.0	100.0

Coefficient of Utilization



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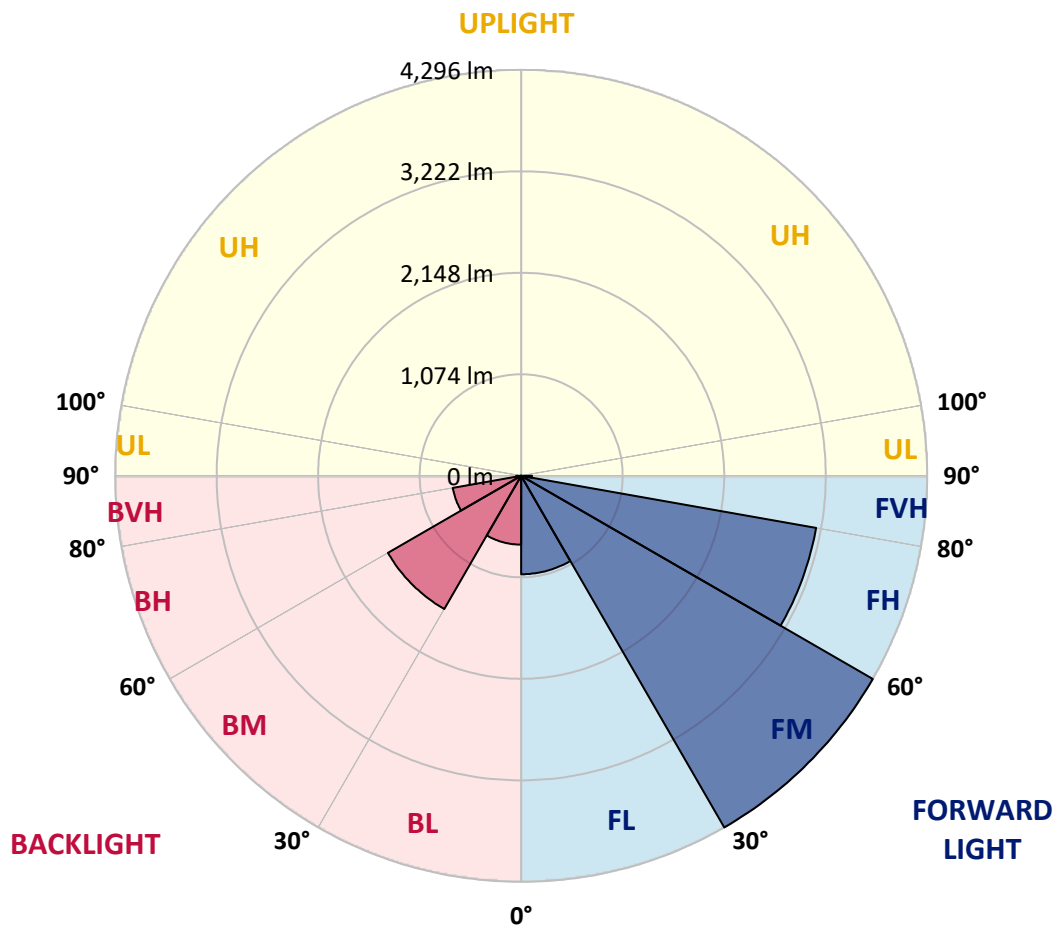
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1041.3	8.9			
FM	(30°-60°)	4295.6	36.5			
FH	(60°-80°)	3168.9	26.9			G2/5000
FVH	(80°-90°)	114.1	1.0			G2/225
BL	(0°-30°)	728.3	6.2	B2/1000		
BM	(30°-60°)	1627.6	13.8	B2/2500		
BH	(60°-80°)	734.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	51.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7
2.5°	2047.6	2045.8	2049.4	2036.9	2020.7	2019.0	2019.0	2008.2	1995.7	1970.6	1950.9
5°	2144.2	2140.7	2142.5	2124.6	2103.1	2092.3	2090.5	2067.3	2038.6	1999.3	1963.5
7.5°	2233.7	2230.2	2228.4	2208.7	2176.5	2158.6	2156.8	2122.8	2088.8	2027.9	1976.0
10°	2317.9	2314.3	2310.7	2283.9	2244.5	2217.6	2214.0	2171.1	2128.1	2053.0	1986.7
12.5°	2425.3	2418.1	2414.5	2382.3	2325.0	2296.4	2291.0	2233.7	2180.0	2088.8	2008.2
15°	2538.0	2532.6	2527.3	2496.8	2432.4	2394.8	2385.9	2314.3	2240.9	2135.3	2040.4
17.5°	2622.1	2616.8	2616.8	2589.9	2530.9	2487.9	2480.7	2394.8	2303.5	2178.3	2065.5
20°	2674.0	2668.7	2674.0	2657.9	2613.2	2577.4	2570.2	2475.4	2366.2	2217.6	2087.0
22.5°	2711.6	2706.3	2715.2	2708.0	2675.8	2654.4	2649.0	2555.9	2430.6	2258.8	2108.4
25°	2777.9	2777.9	2777.9	2765.3	2734.9	2727.7	2727.7	2647.2	2513.0	2312.5	2140.7
27.5°	2910.3	2903.1	2894.2	2858.4	2806.5	2804.7	2815.4	2740.3	2607.8	2382.3	2180.0
30°	3105.4	3101.8	3067.8	2992.6	2904.9	2896.0	2903.1	2840.5	2709.8	2455.7	2224.8
32.5°	3357.8	3345.2	3275.4	3162.7	3037.4	2996.2	3010.5	2944.3	2817.2	2530.9	2267.7
35°	3536.7	3540.3	3490.2	3388.2	3239.6	3130.5	3141.2	3060.6	2933.6	2615.0	2321.4
37.5°	3742.6	3755.1	3679.9	3603.0	3465.2	3279.0	3289.7	3180.6	3049.9	2720.6	2378.7
40°	4027.2	4002.1	3875.0	3783.7	3631.6	3434.7	3443.7	3314.8	3184.1	2820.8	2444.9
42.5°	4265.2	4220.5	4066.5	3950.2	3767.6	3599.4	3608.3	3459.8	3320.2	2931.8	2518.3
45°	4607.1	4483.6	4261.6	4204.4	3907.2	3760.5	3769.4	3613.7	3463.4	3049.9	2597.1
47.5°	4805.8	4608.9	4467.5	4437.0	4061.2	3926.9	3937.7	3776.6	3617.3	3184.1	2679.4
50°	4793.2	4666.1	4625.0	4549.8	4197.2	4082.7	4093.4	3944.8	3773.0	3316.6	2758.2
52.5°	4710.9	4734.2	4712.7	4587.4	4333.2	4233.0	4245.5	4111.3	3932.3	3440.1	2831.5
55°	4838.0	4854.1	4812.9	4648.2	4483.6	4383.3	4397.7	4286.7	4089.8	3549.3	2894.2
57.5°	4990.1	4932.8	4891.7	4755.6	4639.3	4546.2	4562.3	4465.7	4225.8	3637.0	2942.5
60°	4982.9	4863.0	4904.2	4762.8	4744.9	4696.6	4710.9	4612.5	4329.7	3701.4	2962.2
62.5°	4616.0	4551.6	4759.2	4710.9	4830.8	4830.8	4848.7	4701.9	4392.3	3728.3	2951.5
65°	3978.8	3982.4	4347.6	4548.0	4932.8	5015.2	5029.5	4757.4	4356.5	3649.5	2851.2
67.5°	3169.8	3193.1	3717.5	4134.6	4830.8	5140.5	5142.2	4807.5	4202.6	3427.6	2618.6
70°	2319.6	2337.5	2956.8	3463.4	4349.3	4863.0	4834.4	4666.1	3867.9	3041.0	2255.2
72.5°	1567.9	1584.0	2221.2	2659.7	3569.0	4141.7	4079.1	4123.8	3296.9	2498.6	1813.1
75°	1054.2	1073.9	1580.4	1902.6	2625.7	3144.8	3005.2	3123.3	2550.5	1891.9	1322.7
77.5°	664.0	676.6	1004.1	1247.5	1793.4	2140.7	2001.1	2002.8	1469.5	1018.4	710.6
80°	422.4	426.0	608.5	719.5	1038.1	1286.9	1138.3	925.4	662.2	540.5	424.2
82.5°	245.2	239.8	363.3	406.3	494.0	488.6	404.5	383.0	290.0	270.3	216.6
85°	98.4	91.3	159.3	148.6	150.3	159.3	118.1	118.1	94.9	73.4	53.7
87.5°	19.7	19.7	21.5	19.7	19.7	21.5	16.1	16.1	14.3	14.3	14.3
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°	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7	1961.7
2.5°	1947.4	1943.8	1934.8	1911.6	1899.0	1891.9	1881.1	1877.6	1875.8	1877.6	1882.9
5°	1952.7	1940.2	1915.1	1877.6	1852.5	1836.4	1818.5	1811.3	1806.0	1806.0	1811.3
7.5°	1956.3	1936.6	1893.7	1838.2	1802.4	1777.3	1755.8	1746.9	1745.1	1750.5	1752.3
10°	1958.1	1929.5	1868.6	1798.8	1752.3	1720.0	1698.6	1693.2	1698.6	1709.3	1711.1
12.5°	1970.6	1931.3	1854.3	1772.0	1716.5	1684.3	1668.1	1668.1	1682.5	1702.1	1703.9
15°	1992.1	1943.8	1847.1	1750.5	1693.2	1664.6	1659.2	1668.1	1689.6	1720.0	1723.6
17.5°	2008.2	1950.9	1831.0	1721.8	1662.8	1644.9	1653.8	1675.3	1705.7	1746.9	1750.5
20°	2019.0	1950.9	1807.8	1687.8	1632.3	1628.8	1653.8	1687.8	1720.0	1768.4	1773.7
22.5°	2029.7	1947.4	1780.9	1646.7	1598.3	1609.1	1655.6	1698.6	1730.8	1782.7	1791.6
25°	2049.4	1952.7	1754.1	1605.5	1562.5	1593.0	1653.8	1705.7	1739.7	1793.4	1807.8
27.5°	2076.2	1965.3	1734.4	1567.9	1526.7	1567.9	1641.3	1703.9	1739.7	1791.6	1807.8
30°	2104.9	1979.6	1711.1	1526.7	1485.6	1532.1	1614.4	1684.3	1725.4	1773.7	1793.4
32.5°	2135.3	1995.7	1691.4	1482.0	1435.5	1483.8	1575.1	1653.8	1698.6	1743.3	1764.8
35°	2176.5	2024.3	1680.7	1446.2	1390.7	1433.7	1525.0	1614.4	1662.8	1703.9	1729.0
37.5°	2226.6	2060.1	1675.3	1410.4	1342.4	1378.2	1471.3	1566.1	1618.0	1652.0	1675.3
40°	2283.9	2104.9	1673.5	1376.4	1294.1	1320.9	1415.8	1510.6	1560.8	1587.6	1607.3
42.5°	2348.3	2155.0	1669.9	1342.4	1245.7	1267.2	1362.1	1455.2	1498.1	1521.4	1539.3
45°	2416.3	2205.1	1662.8	1301.2	1193.8	1218.9	1306.6	1388.9	1433.7	1453.4	1473.0
47.5°	2484.3	2255.2	1648.5	1254.7	1147.3	1170.6	1247.5	1319.1	1354.9	1372.8	1392.5
50°	2550.5	2300.0	1614.4	1201.0	1099.0	1120.4	1179.5	1227.8	1254.7	1269.0	1288.7
52.5°	2609.6	2330.4	1566.1	1138.3	1050.6	1061.4	1100.8	1141.9	1163.4	1165.2	1183.1
55°	2659.7	2346.5	1496.3	1073.9	998.7	1000.5	1022.0	1054.2	1063.2	1056.0	1068.5
57.5°	2688.4	2337.5	1419.4	1007.7	945.0	937.9	954.0	970.1	971.9	954.0	966.5
60°	2695.5	2296.4	1319.1	941.5	891.3	871.7	877.0	873.4	869.9	862.7	873.4
62.5°	2659.7	2208.7	1208.2	877.0	834.1	803.6	801.9	800.1	805.4	807.2	809.0
65°	2529.1	2044.0	1075.7	810.8	773.2	732.0	730.3	751.7	758.9	748.2	751.7
67.5°	2276.7	1791.6	930.7	733.8	696.3	660.5	674.8	687.3	699.8	696.3	699.8
70°	1918.7	1471.3	798.3	647.9	612.1	592.4	608.5	619.3	621.1	617.5	621.1
72.5°	1508.8	1149.1	674.8	560.2	528.0	519.1	538.7	547.7	563.8	571.0	572.8
75°	1090.0	848.4	553.1	465.4	438.5	438.5	456.4	472.5	486.8	477.9	472.5
77.5°	608.5	506.5	397.3	320.4	325.8	350.8	358.0	375.9	390.2	388.4	384.8
80°	368.7	316.8	268.5	207.6	205.8	225.5	272.1	302.5	309.6	293.5	291.7
82.5°	191.5	166.5	143.2	116.3	128.9	150.3	157.5	189.7	209.4	202.3	211.2
85°	48.3	46.5	51.9	53.7	66.2	73.4	80.5	94.9	62.6	30.4	30.4
87.5°	14.3	14.3	17.9	17.9	23.3	28.6	26.8	26.8	14.3	1.8	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)