

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: P836883

Luminaire Tested: **ARCH3-90-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12856 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.1
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

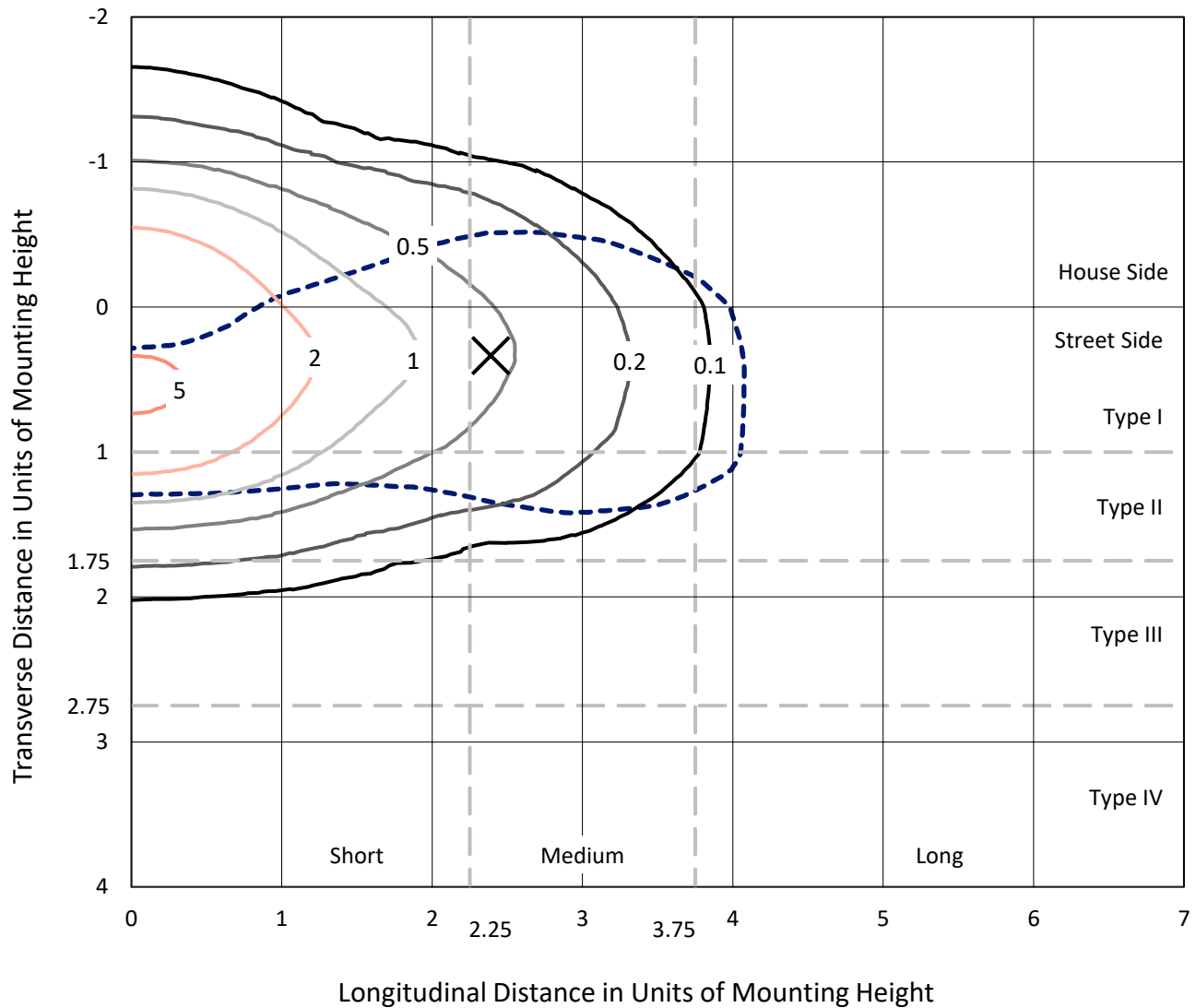


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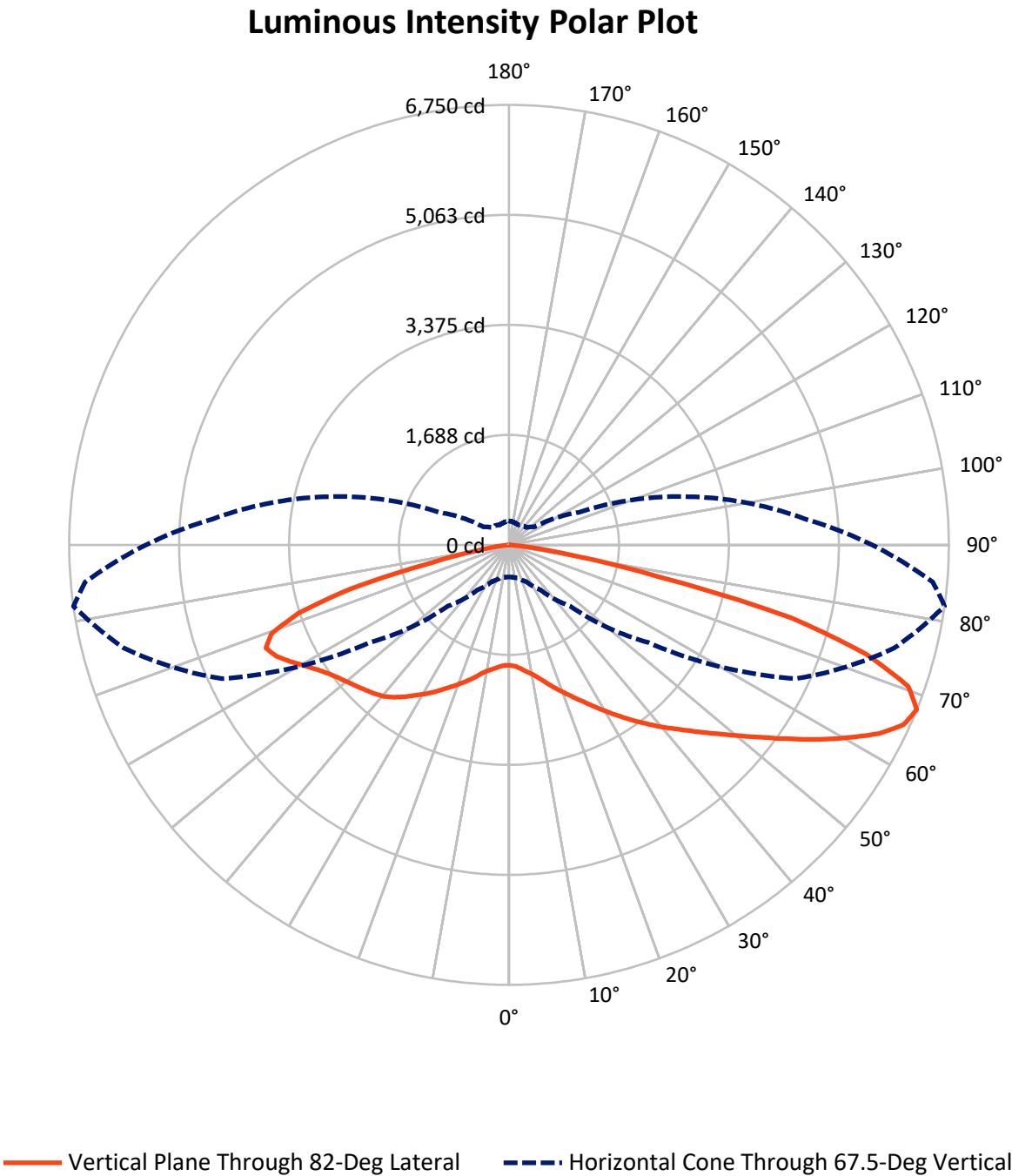
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - N/A

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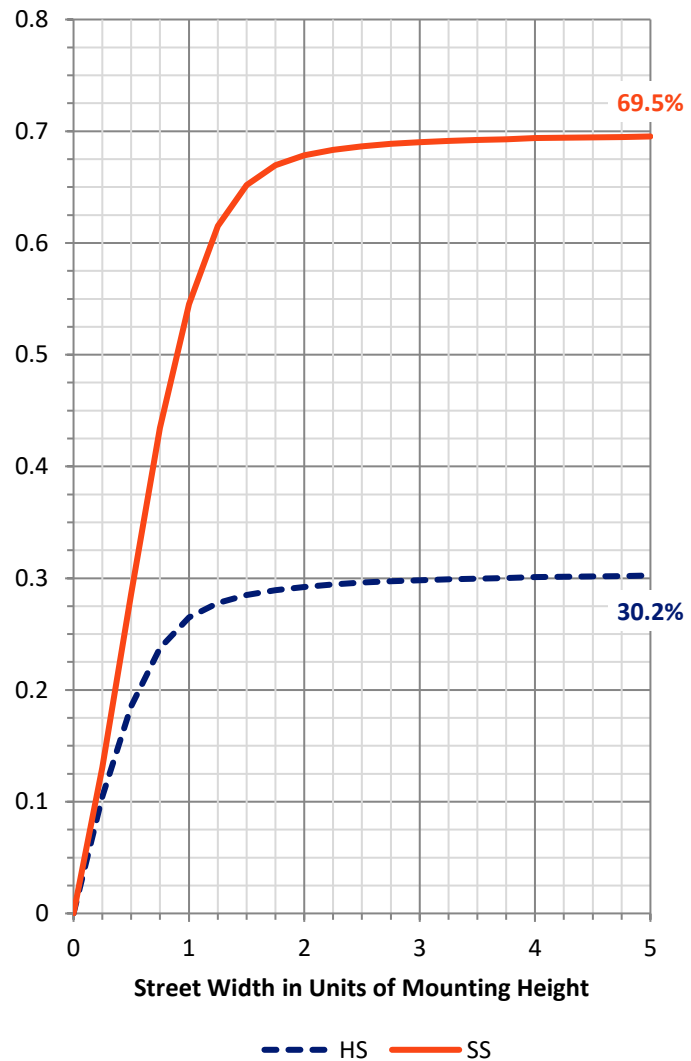
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3915.2	0.0	3915.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8940.8	0.0	8940.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	12856.0	0.0	12856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	1.5
10°-20°	687.9	5.4
20°-30°	1382.6	10.8
30°-40°	2171.9	16.9
40°-50°	2645.8	20.6
50°-60°	2499.9	19.4
60°-70°	2064.4	16.1
70°-80°	1124.1	8.7
80°-90°	88.4	0.7
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°	12856.0	100.0
0°-180°	12856.0	100.0

Coefficient of Utilization



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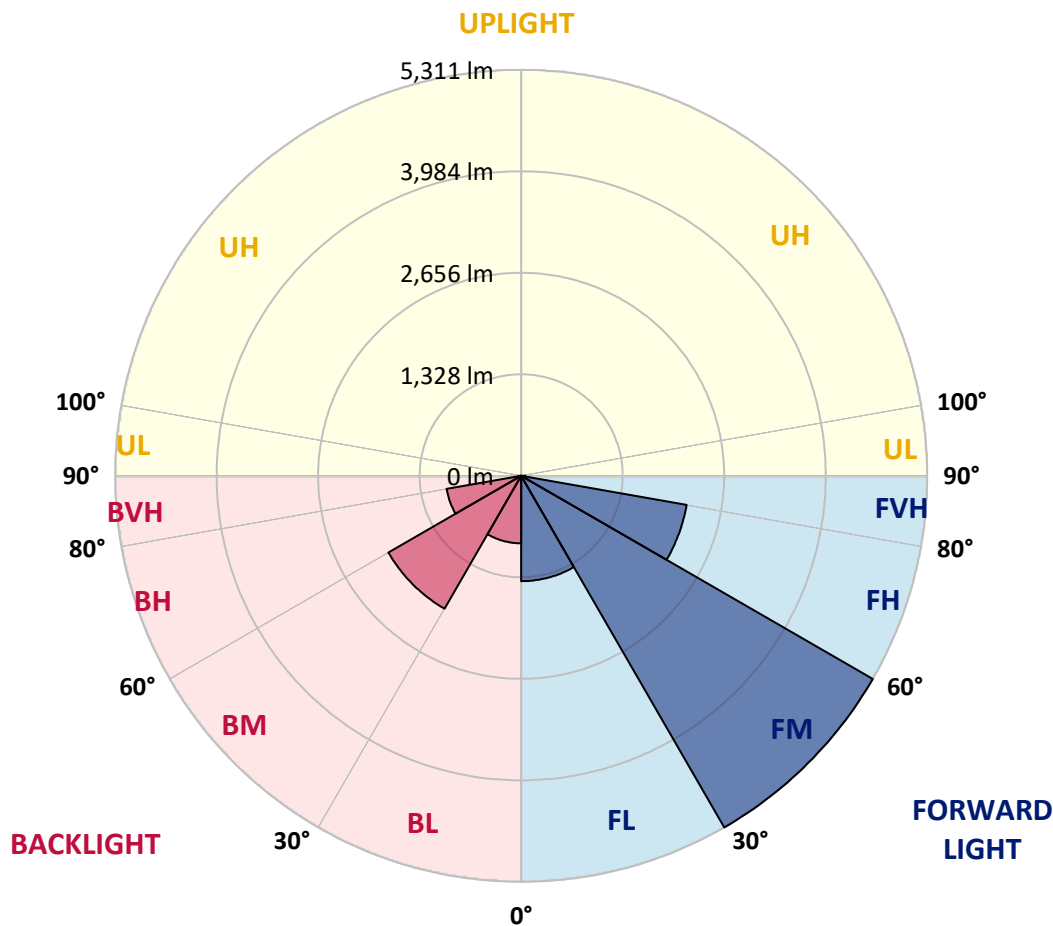
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1378.6	10.7			
FM	(30°-60°)	5311.4	41.3			
FH	(60°-80°)	2197.6	17.1			G2/5000
FVH	(80°-90°)	53.3	0.4			G1/100
BL	(0°-30°)	882.9	6.9	B2/1000		
BM	(30°-60°)	2006.2	15.6	B2/2500		
BH	(60°-80°)	990.9	7.7	B2/1000		G2/1000
BVH	(80°-90°)	35.1	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0
2.5°	1932.0	1932.0	1947.0	1947.0	1933.9	1913.4	1907.8	1885.4	1864.8	1864.8	1866.7
5°	2116.8	2115.0	2126.2	2111.2	2079.5	2038.4	2010.4	1961.9	1920.8	1907.8	1905.9
7.5°	2342.7	2340.9	2346.5	2322.2	2262.5	2195.3	2139.3	2060.8	1993.6	1965.6	1958.2
10°	2594.7	2592.9	2587.3	2546.2	2465.9	2361.4	2277.4	2169.1	2068.3	2023.5	2014.2
12.5°	2884.1	2880.3	2867.3	2807.5	2697.4	2563.0	2441.7	2301.7	2167.3	2105.6	2085.1
15°	3207.0	3201.4	3177.1	3104.3	2956.9	2787.0	2630.2	2451.0	2286.7	2206.5	2178.5
17.5°	3546.7	3546.7	3509.4	3401.1	3236.9	3025.9	2831.8	2604.1	2411.8	2312.9	2279.3
20°	3892.1	3890.2	3843.6	3712.9	3518.7	3276.1	3029.7	2779.5	2540.6	2421.1	2380.1
22.5°	4256.1	4252.4	4194.5	4045.2	3813.7	3539.3	3251.8	2953.1	2682.5	2538.7	2486.5
25°	4674.2	4668.6	4597.7	4414.8	4140.4	3830.5	3501.9	3156.6	2844.9	2669.4	2607.8
27.5°	5118.5	5111.1	5027.1	4814.2	4513.7	4140.4	3778.2	3391.8	3024.1	2815.0	2745.9
30°	5514.3	5508.7	5417.2	5198.8	4853.4	4448.4	4041.4	3627.0	3212.6	2969.9	2884.1
32.5°	5812.9	5812.9	5730.8	5516.1	5157.7	4743.3	4306.5	3849.2	3408.6	3136.1	3035.3
35°	5994.0	5999.6	5928.7	5756.9	5419.1	5021.5	4580.9	4110.5	3617.7	3313.4	3205.1
37.5°	6020.1	6038.8	5997.7	5882.0	5600.1	5252.9	4849.7	4362.5	3834.2	3492.6	3371.3
40°	5898.8	5911.9	5913.7	5868.9	5674.8	5419.1	5086.8	4629.4	4063.8	3681.2	3541.1
42.5°	5656.1	5665.5	5682.3	5695.3	5620.7	5491.9	5267.9	4877.7	4308.4	3873.4	3709.2
45°	5342.5	5340.7	5368.7	5424.7	5420.9	5450.8	5368.7	5103.6	4562.2	4091.8	3895.8
47.5°	4874.0	4864.6	4963.6	5090.5	5154.0	5294.0	5370.5	5280.9	4838.5	4332.6	4108.6
50°	4140.4	4131.0	4347.6	4646.2	4832.9	5045.7	5267.9	5387.3	5127.9	4603.3	4340.1
52.5°	3248.1	3238.7	3513.1	4035.8	4442.8	4752.6	5060.7	5411.6	5402.3	4905.7	4601.4
55°	2415.5	2408.1	2675.0	3240.6	3899.6	4412.9	4806.8	5348.1	5659.9	5252.9	4918.8
57.5°	1702.4	1698.7	1930.2	2398.7	3201.4	3998.5	4562.2	5224.9	5896.9	5630.0	5277.2
60°	1194.7	1189.1	1357.1	1719.2	2421.1	3373.1	4319.6	5060.7	6074.3	6001.5	5658.0
62.5°	804.6	800.8	920.3	1222.7	1719.2	2596.6	3951.8	4950.5	6175.1	6374.8	6042.5
65°	610.4	608.5	662.7	828.8	1217.1	1864.8	3367.5	4937.4	6188.1	6654.8	6369.2
67.5°	492.8	494.7	524.5	619.7	841.9	1325.4	2611.5	4855.3	6119.1	6750.0	6527.9
70°	403.2	403.2	416.3	479.7	621.6	894.2	1823.8	4482.0	5926.8	6501.8	6339.3
72.5°	308.0	309.9	350.9	388.3	468.5	627.2	1168.6	3709.2	5473.2	5732.7	5609.5
75°	244.5	242.7	266.9	319.2	364.0	448.0	716.8	2660.1	4657.4	4480.1	4401.7
77.5°	175.5	173.6	192.3	237.1	276.3	317.3	427.5	1342.2	2533.1	2327.8	2269.9
80°	119.5	115.7	132.5	164.3	182.9	186.7	209.1	515.2	1105.1	1041.6	1028.6
82.5°	61.6	61.6	70.9	93.3	95.2	97.1	93.3	166.1	365.9	341.6	326.7
85°	24.3	24.3	26.1	31.7	31.7	33.6	33.6	42.9	39.2	37.3	35.5
87.5°	1.9	1.9	3.7	3.7	5.6	5.6	5.6	7.5	9.3	9.3	9.3
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°	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0
2.5°	1863.0	1855.5	1831.2	1825.6	1821.9	1816.3	1818.2	1805.1	1799.5	1801.4	1793.9
5°	1896.6	1883.5	1853.6	1840.6	1836.8	1831.2	1836.8	1827.5	1818.2	1821.9	1818.2
7.5°	1943.2	1924.6	1887.2	1874.2	1872.3	1866.7	1874.2	1866.7	1859.2	1863.0	1855.5
10°	1991.8	1967.5	1926.4	1913.4	1913.4	1911.5	1919.0	1907.8	1900.3	1902.2	1898.4
12.5°	2062.7	2031.0	1986.2	1975.0	1969.4	1975.0	1976.8	1961.9	1948.8	1950.7	1945.1
15°	2148.6	2113.1	2064.6	2047.8	2044.0	2042.2	2034.7	2016.0	1999.2	1997.4	1991.8
17.5°	2241.9	2197.1	2139.3	2122.4	2105.6	2100.0	2081.4	2057.1	2031.0	2031.0	2023.5
20°	2331.5	2281.1	2212.1	2187.8	2163.5	2141.1	2109.4	2070.2	2036.6	2031.0	2023.5
22.5°	2428.6	2368.9	2288.6	2253.1	2210.2	2165.4	2111.2	2059.0	2016.0	2006.7	2001.1
25°	2536.9	2462.2	2367.0	2314.7	2245.7	2176.6	2096.3	2029.1	1978.7	1963.8	1960.0
27.5°	2656.3	2566.7	2451.0	2374.5	2273.7	2165.4	2062.7	1982.4	1920.8	1902.2	1896.6
30°	2777.7	2671.3	2527.5	2415.5	2273.7	2129.9	2001.1	1907.8	1836.8	1810.7	1807.0
32.5°	2899.0	2779.5	2596.6	2437.9	2251.3	2070.2	1920.8	1810.7	1730.4	1698.7	1706.2
35°	3044.6	2899.0	2660.1	2447.3	2213.9	1997.4	1829.4	1700.6	1618.4	1590.4	1596.0
37.5°	3195.8	3018.5	2710.5	2439.8	2161.7	1915.2	1726.7	1601.6	1499.0	1450.4	1456.0
40°	3326.5	3126.7	2745.9	2413.7	2094.4	1821.9	1625.9	1461.6	1319.8	1273.1	1267.5
42.5°	3449.7	3207.0	2764.6	2374.5	2017.9	1713.6	1482.2	1271.2	1129.4	1071.5	1073.4
45°	3578.5	3285.4	2757.1	2322.2	1922.7	1586.7	1297.4	1084.6	959.5	907.2	909.1
47.5°	3726.0	3369.4	2749.7	2266.2	1807.0	1422.4	1120.0	920.3	812.0	774.7	771.0
50°	3882.8	3462.7	2740.3	2197.1	1678.2	1239.5	944.6	767.2	675.7	651.5	645.9
52.5°	4060.1	3563.6	2734.7	2115.0	1523.2	1045.4	787.8	632.8	571.2	554.4	552.5
55°	4272.9	3681.2	2742.2	2016.0	1336.6	862.4	655.2	545.1	504.0	494.7	492.8
57.5°	4532.4	3832.4	2764.6	1900.3	1140.6	703.7	558.1	490.9	464.8	457.3	457.3
60°	4814.2	4004.1	2805.7	1769.6	944.6	580.5	494.7	448.0	436.8	446.1	446.1
62.5°	5118.5	4205.7	2878.5	1611.0	761.6	490.9	444.3	412.5	405.1	423.7	425.6
65°	5400.4	4401.7	2925.1	1420.6	604.8	425.6	405.1	377.1	380.8	399.5	397.6
67.5°	5574.0	4564.1	2859.8	1181.6	479.7	377.1	364.0	339.7	349.1	364.0	365.9
70°	5467.6	4472.6	2536.9	892.3	375.2	328.5	319.2	304.3	311.7	330.4	337.9
72.5°	4946.8	4006.0	1973.1	602.9	302.4	276.3	280.0	272.5	281.9	298.7	315.5
75°	4015.3	3027.8	1323.5	386.4	238.9	235.2	240.8	235.2	238.9	255.7	265.1
77.5°	2096.3	1476.6	658.9	240.8	177.3	182.9	192.3	194.1	205.3	209.1	212.8
80°	978.2	664.5	274.4	134.4	117.6	128.8	147.5	149.3	153.1	158.7	160.5
82.5°	319.2	199.7	126.9	72.8	67.2	72.8	95.2	113.9	115.7	126.9	126.9
85°	33.6	20.5	28.0	29.9	26.1	31.7	42.9	41.1	18.7	11.2	11.2
87.5°	9.3	7.5	9.3	9.3	7.5	7.5	5.6	1.9	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)