

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: P1210781

Luminaire Tested: **ARCH3-70-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11510 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.1
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



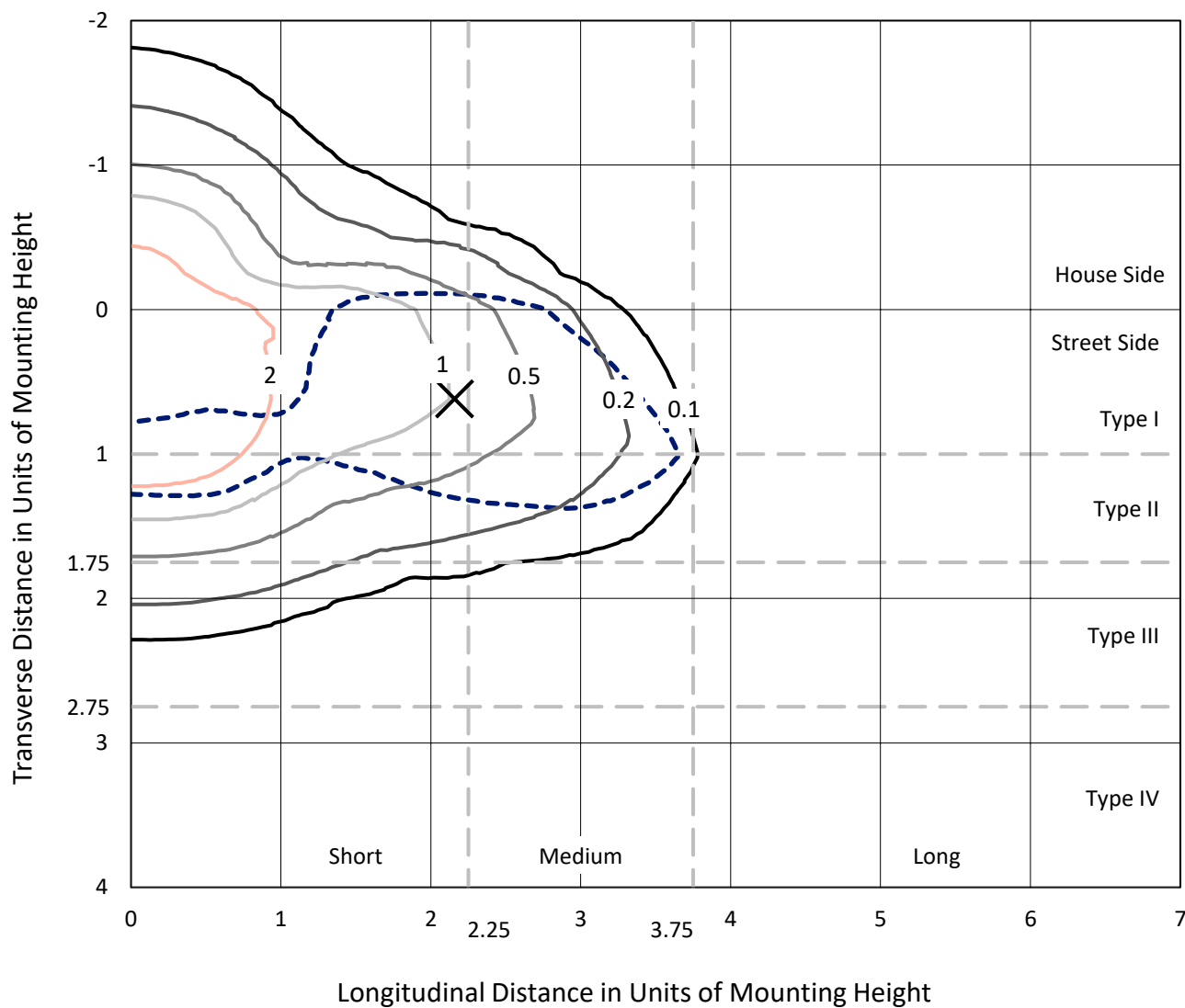
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Iso-Footcandle Lines of Horizontal Illumination

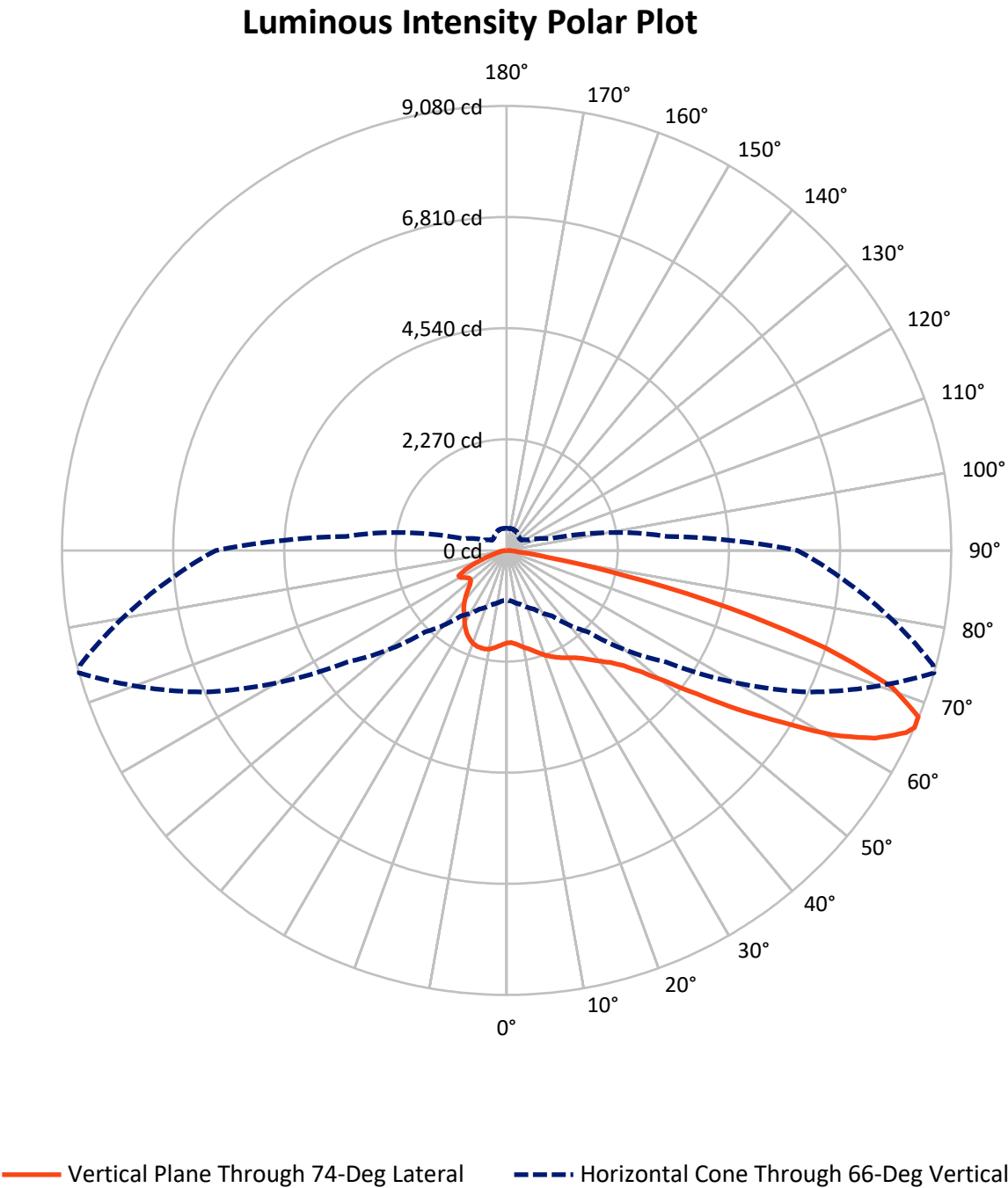
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type II - Short - N/A

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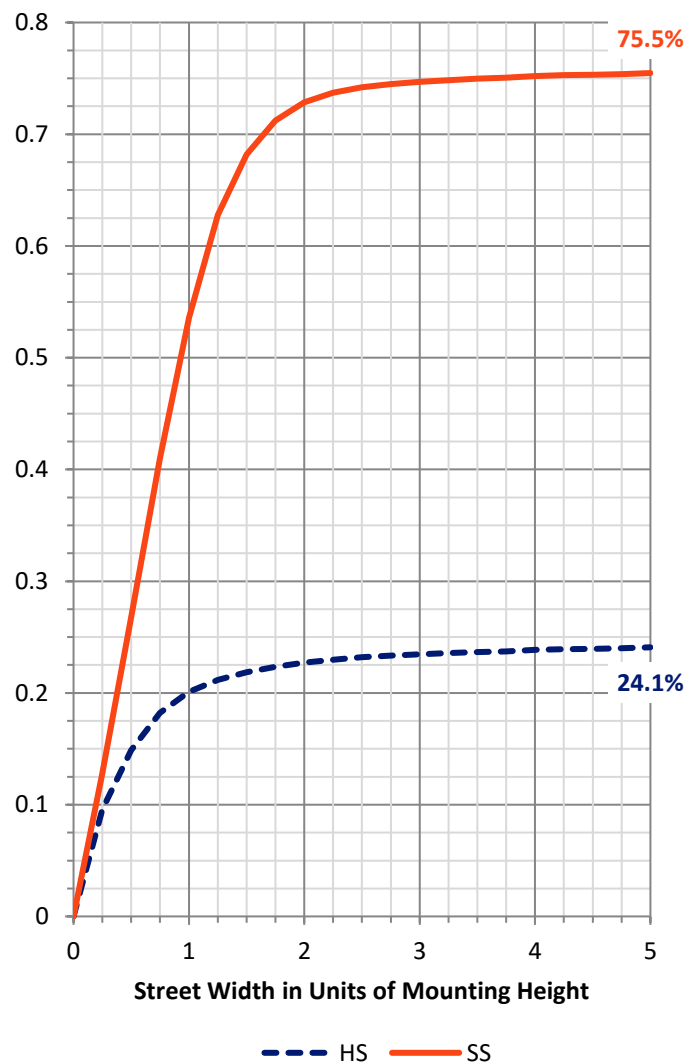
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2803.0	0.0	2803.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	8707.0	0.0	8707.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	11510.0	0.0	11510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	1.6
10°-20°	553.5	4.8
20°-30°	1038.7	9.0
30°-40°	1597.7	13.9
40°-50°	2149.1	18.7
50°-60°	2541.5	22.1
60°-70°	2351.0	20.4
70°-80°	989.1	8.6
80°-90°	109.4	1.0
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°	11510.0	100.0
0°-180°	11510.0	100.0

Coefficient of Utilization



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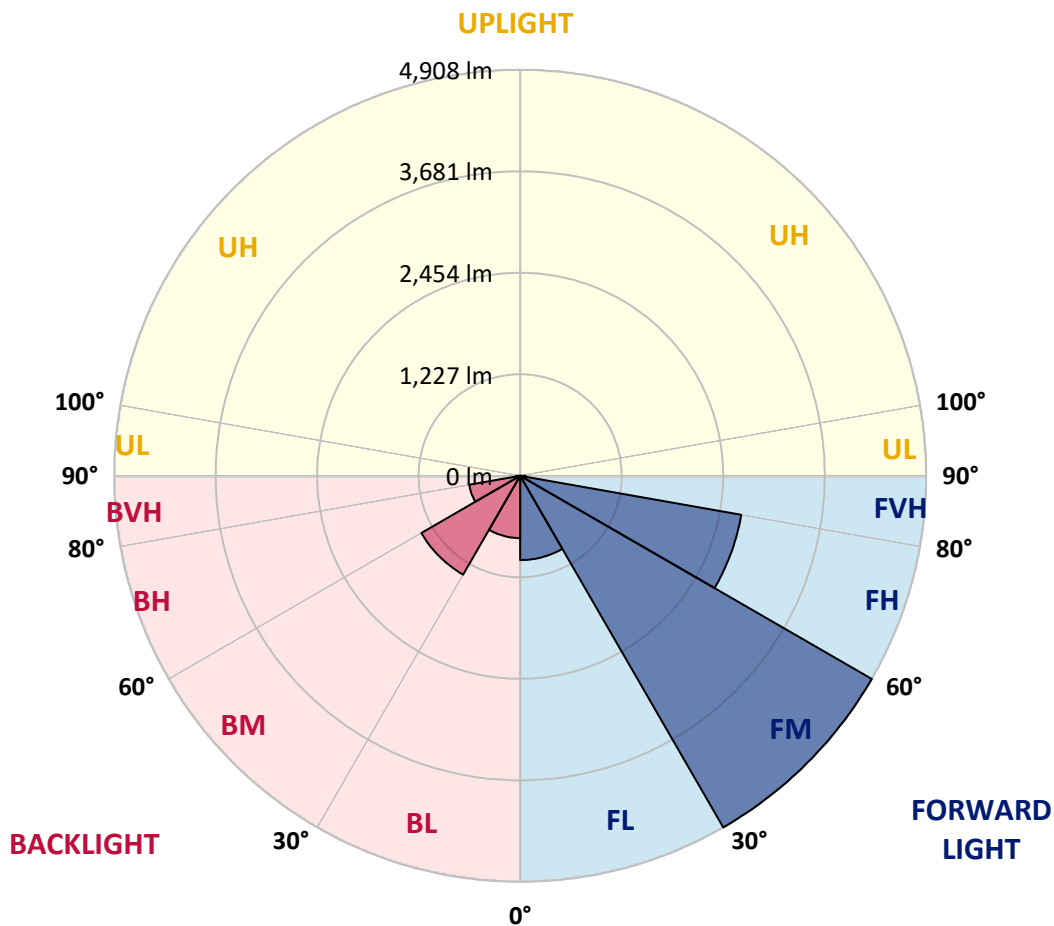
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1018.8	8.9			
FM	(30°-60°)	4908.4	42.6			
FH	(60°-80°)	2714.4	23.6			G2/5000
FVH	(80°-90°)	65.5	0.6			G1/100
BL	(0°-30°)	753.4	6.5	B2/1000		
BM	(30°-60°)	1379.9	12.0	B2/2500		
BH	(60°-80°)	625.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	44.0	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1880.9	1878.0	1883.9	1892.8	1897.2	1889.8	1886.9	1885.4	1885.4	1880.9	1888.4
5°	1792.1	1790.6	1803.9	1820.2	1851.3	1873.5	1903.2	1920.9	1915.0	1906.1	1912.0
7.5°	1676.6	1673.6	1689.9	1721.0	1763.9	1812.8	1885.4	1941.7	1963.9	1960.9	1959.4
10°	1721.0	1718.0	1716.5	1707.7	1722.5	1769.9	1845.4	1944.6	2020.2	2021.6	2023.1
12.5°	1875.0	1882.4	1875.0	1846.9	1814.3	1796.5	1841.0	1952.0	2067.6	2076.4	2113.5
15°	2085.3	2077.9	2063.1	2030.5	1980.2	1926.9	1894.3	1986.1	2135.7	2143.1	2224.6
17.5°	2270.5	2276.4	2267.5	2236.4	2177.2	2107.5	2008.3	2045.3	2208.3	2229.0	2343.0
20°	2471.9	2495.6	2483.7	2445.2	2396.4	2292.7	2168.3	2131.2	2288.2	2303.0	2466.0
22.5°	2704.4	2729.6	2707.4	2670.4	2630.4	2503.0	2343.0	2236.4	2354.9	2386.0	2584.5
25°	2982.9	3006.6	2985.8	2928.1	2877.7	2722.2	2531.1	2354.9	2420.1	2454.1	2680.7
27.5°	3203.5	3221.3	3240.6	3206.5	3129.5	2968.0	2726.6	2477.8	2485.2	2520.8	2769.6
30°	3400.5	3444.9	3461.2	3465.7	3400.5	3219.8	2926.6	2605.2	2541.5	2578.5	2858.4
32.5°	3670.1	3736.7	3710.1	3736.7	3698.2	3456.8	3133.9	2737.0	2614.1	2648.1	2942.9
35°	4064.0	4117.3	4047.7	4027.0	3964.8	3696.7	3333.9	2873.3	2710.3	2747.4	3022.8
37.5°	4487.6	4548.3	4447.6	4364.7	4246.2	3933.7	3505.7	3052.5	2843.6	2873.3	3096.9
40°	4857.9	4908.2	4820.9	4711.3	4512.8	4142.5	3653.8	3178.4	2976.9	3014.0	3182.8
42.5°	5200.0	5232.6	5134.8	5029.7	4764.6	4330.6	3813.7	3311.7	3132.4	3168.0	3252.4
45°	5546.6	5571.8	5435.5	5285.9	4974.9	4502.4	3990.0	3498.3	3360.5	3407.9	3365.0
47.5°	5608.8	5616.2	5592.5	5491.8	5140.8	4666.8	4207.7	3748.6	3708.6	3760.4	3559.0
50°	5177.8	5244.4	5391.1	5490.3	5207.4	4804.6	4425.4	4107.0	4188.4	4255.1	3961.8
52.5°	4341.0	4404.7	4743.8	5120.0	5047.5	4835.7	4659.4	4561.7	4865.3	4945.3	4509.8
55°	3458.3	3514.6	3873.0	4415.0	4530.6	4693.5	4909.7	5142.2	5728.7	5782.1	5111.1
57.5°	2848.1	2879.2	3135.4	3656.7	3841.9	4238.8	5044.5	5832.4	6607.0	6688.5	5634.0
60°	2335.6	2369.7	2560.8	2990.3	3236.1	3588.6	4937.9	6513.7	7655.6	7655.6	6304.9
62.5°	1758.0	1787.6	1965.4	2301.6	2714.8	3037.7	4597.2	6965.4	8446.5	8410.9	6790.7
65°	1207.1	1230.8	1359.6	1583.3	1955.0	2588.9	4132.2	6971.4	8970.8	8923.4	6998.0
66°	1013.0	1033.8	1143.4	1324.1	1636.6	2349.0	3967.8	6845.5	9080.4	9013.7	6910.6
67.5°	799.8	814.6	887.2	993.8	1199.7	1901.7	3708.6	6488.5	9070.0	9030.0	6688.5
70°	571.7	582.1	635.4	657.6	709.4	1100.4	2945.8	5682.8	8342.8	8354.7	5814.6
72.5°	442.8	459.1	491.7	496.2	484.3	585.0	1787.6	4740.9	6824.7	6820.3	4315.8
75°	356.9	365.8	382.1	391.0	388.0	377.7	756.8	3536.8	4697.9	4752.7	2417.1
77.5°	281.4	279.9	294.7	306.6	315.5	296.2	346.6	2073.5	2463.0	2393.4	907.9
80°	207.3	207.3	228.1	232.5	245.9	248.8	231.0	799.8	845.7	768.7	235.5
82.5°	136.3	136.3	158.5	161.4	174.8	194.0	167.4	239.9	234.0	222.2	106.6
85°	74.1	71.1	78.5	88.9	96.3	114.0	100.7	120.0	122.9	121.4	71.1
87.5°	14.8	13.3	20.7	23.7	26.7	35.5	32.6	48.9	68.1	66.6	31.1
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°	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1898.7	1897.2	1913.5	1932.8	1955.0	1968.3	1974.3	1984.6	1977.2	1980.2	1989.1
5°	1926.9	1931.3	1955.0	1980.2	1990.5	1983.1	1966.8	1960.9	1947.6	1944.6	1941.7
7.5°	1968.3	1975.7	1999.4	2005.4	1974.3	1922.4	1885.4	1864.7	1842.4	1836.5	1833.6
10°	2036.5	2040.9	2046.8	1986.1	1909.1	1839.5	1793.6	1774.3	1759.5	1747.7	1750.6
12.5°	2122.4	2119.4	2073.5	1947.6	1838.0	1766.9	1735.8	1724.0	1713.6	1706.2	1704.7
15°	2230.5	2209.7	2077.9	1894.3	1771.3	1712.1	1689.9	1685.4	1673.6	1673.6	1672.1
17.5°	2340.1	2286.8	2075.0	1838.0	1707.7	1675.1	1661.8	1658.8	1655.8	1654.3	1658.8
20°	2449.7	2354.9	2051.3	1768.4	1663.2	1644.0	1641.0	1642.5	1639.5	1644.0	1641.0
22.5°	2545.9	2399.3	2006.8	1694.3	1632.1	1630.6	1623.2	1626.2	1636.6	1638.1	1642.5
25°	2620.0	2415.6	1941.7	1626.2	1609.9	1607.0	1615.8	1627.7	1636.6	1638.1	1645.5
27.5°	2680.7	2406.7	1860.2	1572.9	1571.4	1587.7	1614.4	1618.8	1620.3	1620.3	1614.4
30°	2726.6	2387.5	1756.5	1513.6	1521.0	1561.0	1586.2	1586.2	1574.4	1571.4	1580.3
32.5°	2737.0	2362.3	1644.0	1452.9	1464.8	1512.2	1543.3	1532.9	1519.6	1519.6	1525.5
35°	2745.9	2328.2	1553.6	1370.0	1387.8	1444.0	1473.7	1452.9	1438.1	1433.7	1432.2
37.5°	2742.9	2314.9	1472.2	1264.8	1288.5	1343.3	1362.6	1343.3	1321.1	1310.7	1324.1
40°	2745.9	2306.0	1370.0	1149.3	1173.0	1205.6	1230.8	1216.0	1195.2	1168.6	1181.9
42.5°	2763.7	2317.9	1257.4	1036.7	1036.7	1054.5	1097.5	1087.1	1036.7	1026.4	1038.2
45°	2858.4	2381.5	1144.9	924.2	907.9	919.7	964.2	919.7	888.6	888.6	899.0
47.5°	3088.0	2500.0	1045.6	825.0	786.4	810.1	822.0	780.5	756.8	750.9	761.3
50°	3556.0	2737.0	986.4	743.5	696.1	713.9	706.5	705.0	681.3	684.3	690.2
52.5°	4266.9	3199.1	968.6	703.5	644.3	648.7	641.3	644.3	639.8	654.6	659.1
55°	5041.5	3686.4	990.8	709.4	608.7	577.6	580.6	595.4	613.2	636.9	641.3
57.5°	5620.6	3930.7	1048.6	749.4	564.3	516.9	524.3	552.4	586.5	605.8	616.1
60°	6051.6	3901.1	1133.0	759.8	511.0	462.1	475.4	516.9	546.5	562.8	573.2
62.5°	6192.3	3716.0	1153.7	684.3	441.4	410.3	442.8	485.8	499.1	516.9	524.3
65°	6076.8	3453.8	1002.7	555.4	388.0	371.7	419.1	451.7	469.5	478.4	479.9
66°	5940.5	3296.8	921.2	505.0	368.8	359.9	410.3	436.9	454.7	453.2	454.7
67.5°	5641.4	2968.0	789.4	434.0	340.6	342.1	395.4	413.2	419.1	414.7	414.7
70°	4623.9	2089.8	565.8	328.8	299.2	319.9	355.5	359.9	373.2	367.3	367.3
72.5°	2851.0	1026.4	379.2	251.8	266.6	299.2	297.7	312.5	343.6	352.5	358.4
75°	1401.1	416.2	250.3	213.3	238.5	250.3	247.3	284.4	328.8	367.3	380.6
77.5°	531.7	207.3	174.8	186.6	192.5	188.1	197.0	257.7	328.8	398.4	411.7
80°	164.4	143.7	137.7	154.0	145.1	137.7	148.1	213.3	278.4	302.1	302.1
82.5°	99.2	112.6	106.6	105.2	97.8	99.2	106.6	152.5	214.8	225.1	225.1
85°	69.6	74.1	60.7	57.8	56.3	54.8	54.8	88.9	127.4	125.9	130.3
87.5°	26.7	29.6	22.2	22.2	20.7	14.8	11.8	14.8	14.8	10.4	7.4
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)