

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: P799235

Luminaire Tested: **ARCH2-100-727-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12262 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
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



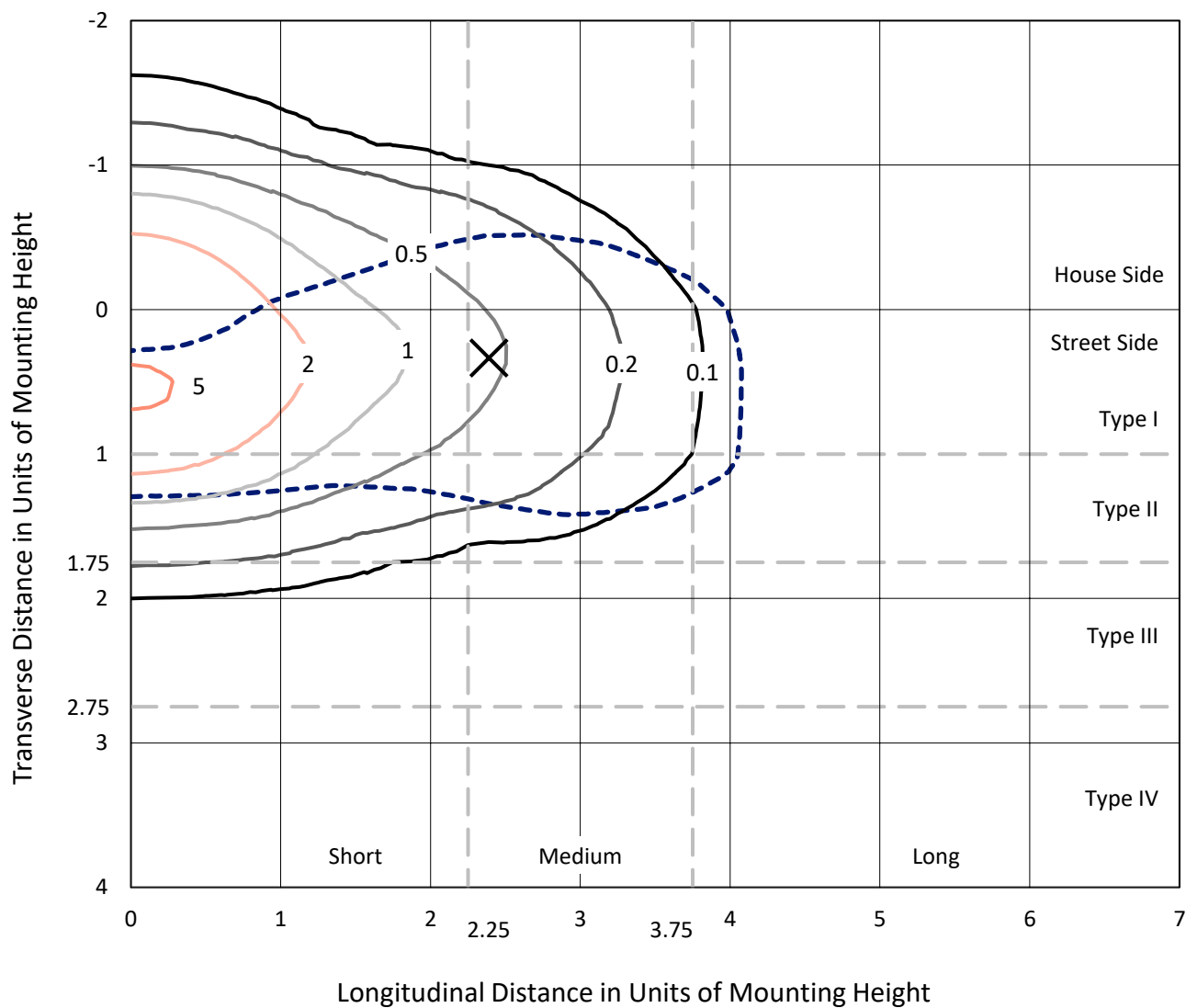
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Iso-Footcandle Lines of Horizontal Illumination

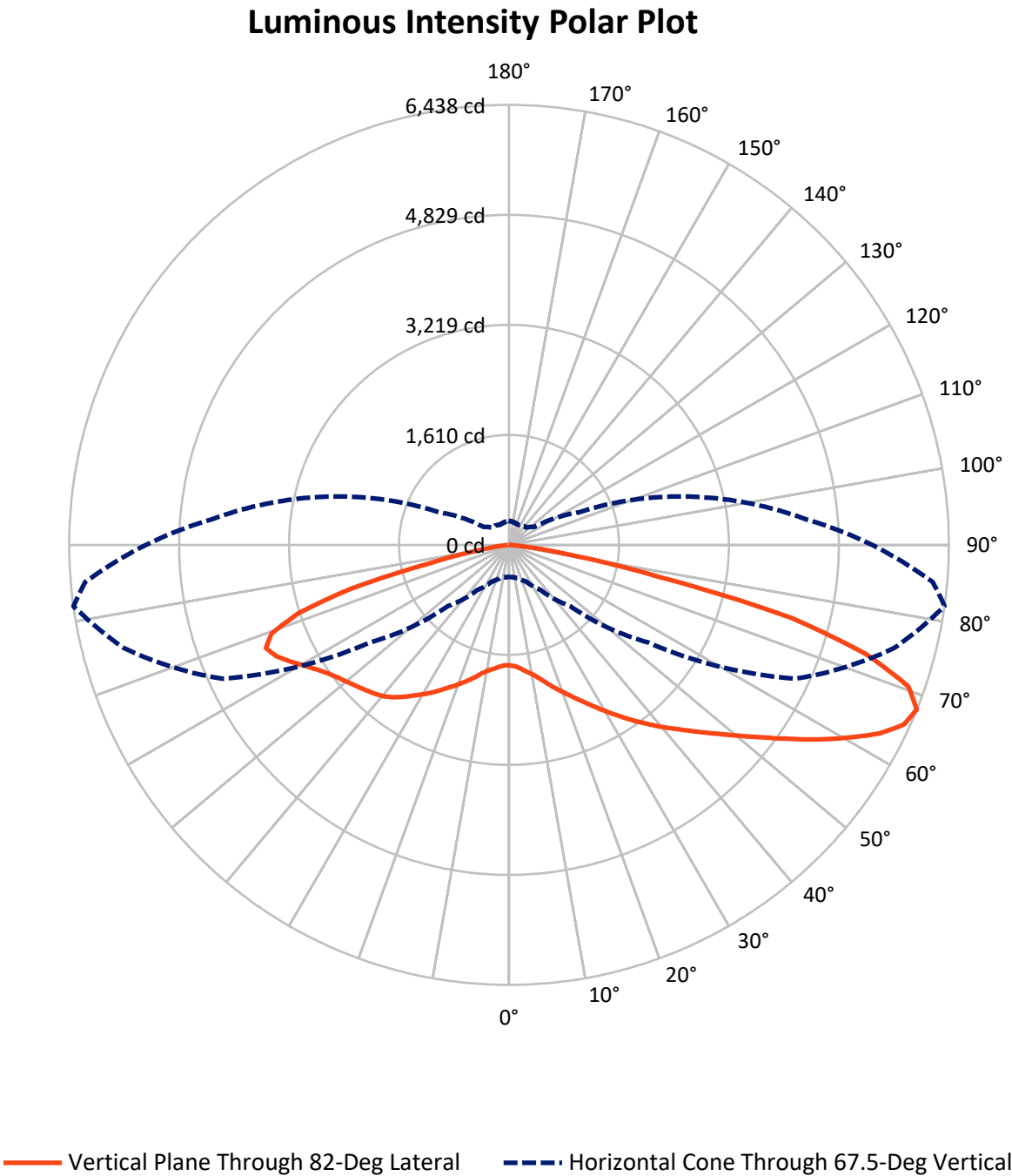
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - N/A

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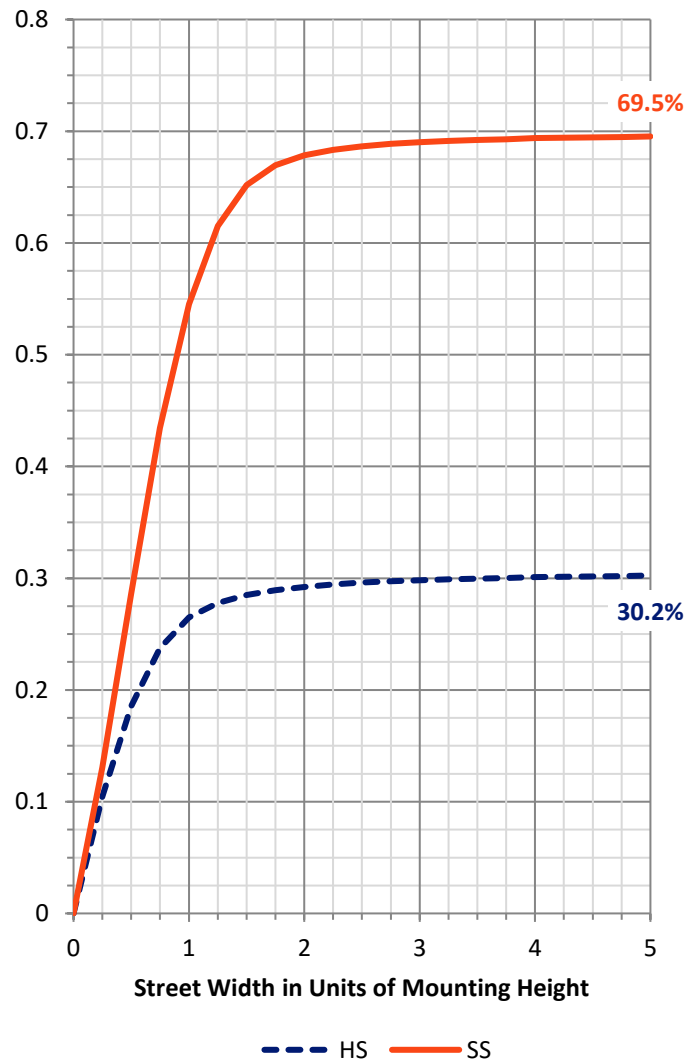
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3734.3	0.0	3734.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8527.7	0.0	8527.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	12262.0	0.0	12262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	1.5
10°-20°	656.2	5.4
20°-30°	1318.7	10.8
30°-40°	2071.5	16.9
40°-50°	2523.5	20.6
50°-60°	2384.4	19.4
60°-70°	1969.0	16.1
70°-80°	1072.2	8.7
80°-90°	84.3	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°	12262.0	100.0
0°-180°	12262.0	100.0

Coefficient of Utilization



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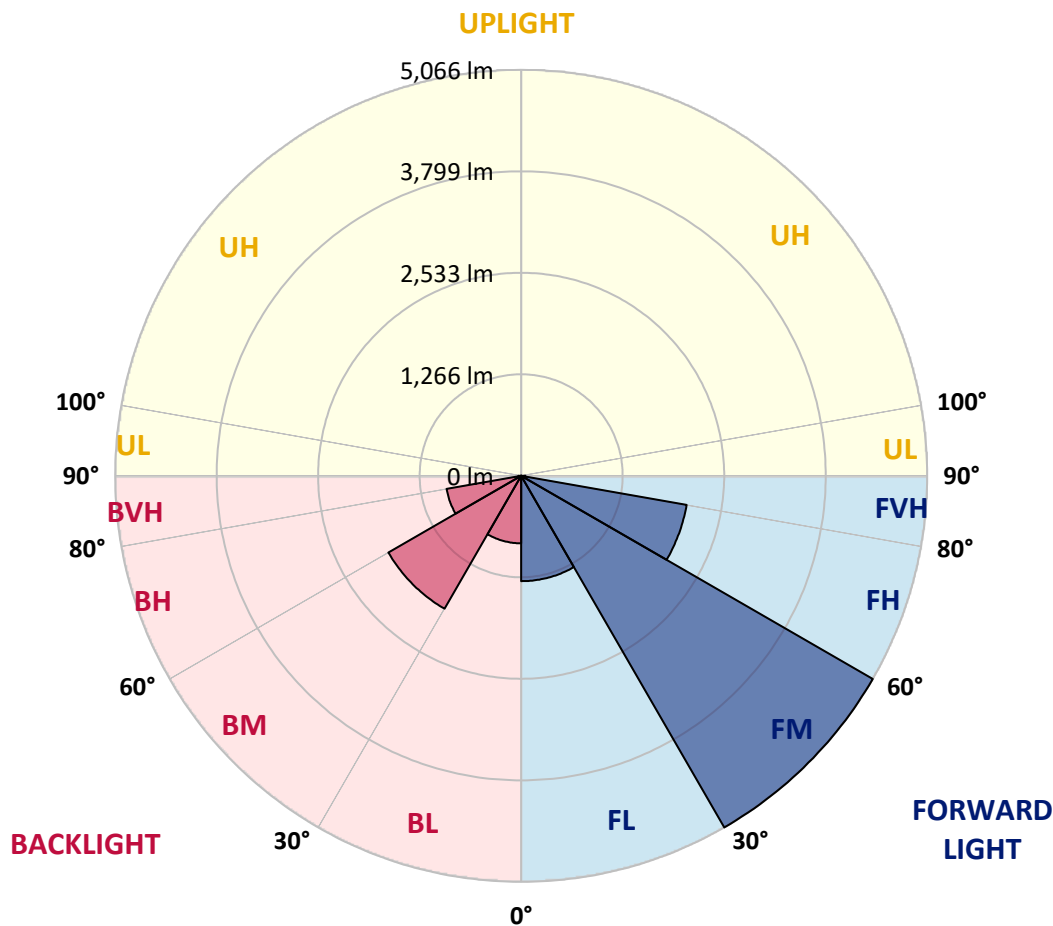
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.9	10.7			
FM	(30°-60°)	5066.0	41.3			
FH	(60°-80°)	2096.0	17.1			G2/5000
FVH	(80°-90°)	50.8	0.4			G1/100
BL	(0°-30°)	842.1	6.9	B2/1000		
BM	(30°-60°)	1913.5	15.6	B2/2500		
BH	(60°-80°)	945.2	7.7	B2/1000		G2/1000
BVH	(80°-90°)	33.5	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°	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7
2.5°	1842.8	1842.8	1857.0	1857.0	1844.6	1825.0	1819.6	1798.3	1778.7	1778.7	1780.5
5°	2019.0	2017.3	2027.9	2013.7	1983.4	1944.3	1917.6	1871.3	1832.1	1819.6	1817.9
7.5°	2234.5	2232.7	2238.0	2214.9	2157.9	2093.8	2040.4	1965.6	1901.5	1874.8	1867.7
10°	2474.8	2473.1	2467.7	2428.5	2352.0	2252.3	2172.2	2068.9	1972.8	1930.0	1921.1
12.5°	2750.8	2747.3	2734.8	2677.8	2572.8	2444.6	2328.8	2195.3	2067.1	2008.4	1988.8
15°	3058.8	3053.5	3030.3	2960.9	2820.2	2658.2	2508.7	2337.7	2181.1	2104.5	2077.8
17.5°	3382.9	3382.9	3347.3	3244.0	3087.3	2886.1	2701.0	2483.7	2300.4	2206.0	2173.9
20°	3712.3	3710.5	3666.0	3541.3	3356.2	3124.7	2889.7	2651.1	2423.2	2309.3	2270.1
22.5°	4059.5	4055.9	4000.7	3858.3	3637.5	3375.8	3101.6	2816.7	2558.5	2421.4	2371.6
25°	4458.3	4452.9	4385.3	4210.8	3949.1	3653.5	3340.1	3010.8	2713.4	2546.1	2487.3
27.5°	4882.0	4874.9	4794.8	4591.8	4305.2	3949.1	3603.7	3235.1	2884.3	2684.9	2619.1
30°	5259.5	5254.1	5166.9	4958.6	4629.2	4242.8	3854.7	3459.4	3064.2	2832.7	2750.8
32.5°	5544.4	5544.4	5466.0	5261.3	4919.4	4524.2	4107.5	3671.3	3251.1	2991.2	2895.0
35°	5717.1	5722.4	5654.7	5490.9	5168.7	4789.4	4369.3	3920.6	3450.5	3160.3	3057.1
37.5°	5742.0	5759.8	5720.6	5610.2	5341.4	5010.2	4625.6	4160.9	3657.1	3331.2	3215.5
40°	5626.3	5638.7	5640.5	5597.8	5412.6	5168.7	4851.8	4415.5	3876.1	3511.1	3377.5
42.5°	5394.8	5403.7	5419.7	5432.2	5361.0	5238.1	5024.5	4652.3	4109.3	3694.5	3537.8
45°	5095.7	5093.9	5120.6	5174.0	5170.5	5198.9	5120.6	4867.8	4351.4	3902.8	3715.8
47.5°	4648.8	4639.9	4734.2	4855.3	4915.9	5049.4	5122.4	5036.9	4615.0	4132.4	3918.8
50°	3949.1	3940.2	4146.7	4431.6	4609.6	4812.6	5024.5	5138.4	4890.9	4390.6	4139.6
52.5°	3098.0	3089.1	3350.8	3849.4	4237.5	4533.1	4826.8	5161.6	5152.7	4679.1	4388.8
55°	2303.9	2296.8	2551.4	3090.9	3719.4	4209.0	4584.7	5101.0	5398.4	5010.2	4691.5
57.5°	1623.8	1620.2	1841.0	2287.9	3053.5	3813.7	4351.4	4983.5	5624.5	5369.9	5033.4
60°	1139.5	1134.2	1294.4	1639.8	2309.3	3217.3	4120.0	4826.8	5793.6	5724.2	5396.6
62.5°	767.4	763.8	877.8	1166.2	1639.8	2476.6	3769.2	4721.8	5889.8	6080.3	5763.4
65°	582.2	580.4	632.1	790.5	1160.9	1778.7	3212.0	4709.3	5902.2	6347.3	6074.9
67.5°	470.0	471.8	500.3	591.1	803.0	1264.1	2490.9	4631.0	5836.4	6438.1	6226.3
70°	384.6	384.6	397.0	457.6	592.9	852.8	1739.5	4274.9	5653.0	6201.3	6046.4
72.5°	293.8	295.6	334.7	370.3	446.9	598.2	1114.6	3537.8	5220.3	5467.8	5350.3
75°	233.2	231.5	254.6	304.5	347.2	427.3	683.7	2537.2	4442.2	4273.1	4198.3
77.5°	167.4	165.6	183.4	226.1	263.5	302.7	407.7	1280.2	2416.1	2220.2	2165.0
80°	113.9	110.4	126.4	156.7	174.5	178.0	199.4	491.4	1054.0	993.5	981.0
82.5°	58.8	58.8	67.7	89.0	90.8	92.6	89.0	158.5	349.0	325.8	311.6
85°	23.1	23.1	24.9	30.3	30.3	32.0	32.0	41.0	37.4	35.6	33.8
87.5°	1.8	1.8	3.6	3.6	5.3	5.3	5.3	7.1	8.9	8.9	8.9
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°	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7	1762.7
2.5°	1776.9	1769.8	1746.6	1741.3	1737.7	1732.4	1734.2	1721.7	1716.4	1718.1	1711.0
5°	1808.9	1796.5	1768.0	1755.5	1752.0	1746.6	1752.0	1743.1	1734.2	1737.7	1734.2
7.5°	1853.5	1835.7	1800.0	1787.6	1785.8	1780.5	1787.6	1780.5	1773.3	1776.9	1769.8
10°	1899.8	1876.6	1837.4	1825.0	1825.0	1823.2	1830.3	1819.6	1812.5	1814.3	1810.7
12.5°	1967.4	1937.1	1894.4	1883.7	1878.4	1883.7	1885.5	1871.3	1858.8	1860.6	1855.2
15°	2049.3	2015.5	1969.2	1953.2	1949.6	1947.8	1940.7	1922.9	1906.9	1905.1	1899.8
17.5°	2138.3	2095.6	2040.4	2024.4	2008.4	2003.0	1985.2	1962.1	1937.1	1937.1	1930.0
20°	2223.8	2175.7	2109.8	2086.7	2063.6	2042.2	2011.9	1974.5	1942.5	1937.1	1930.0
22.5°	2316.4	2259.4	2182.8	2149.0	2108.1	2065.3	2013.7	1963.8	1922.9	1914.0	1908.7
25°	2419.6	2348.4	2257.6	2207.8	2141.9	2076.0	1999.5	1935.4	1887.3	1873.0	1869.5
27.5°	2533.6	2448.1	2337.7	2264.7	2168.6	2065.3	1967.4	1890.8	1832.1	1814.3	1808.9
30°	2649.3	2547.8	2410.7	2303.9	2168.6	2031.5	1908.7	1819.6	1752.0	1727.0	1723.5
32.5°	2765.1	2651.1	2476.6	2325.3	2147.2	1974.5	1832.1	1727.0	1650.5	1620.2	1627.3
35°	2903.9	2765.1	2537.2	2334.2	2111.6	1905.1	1744.9	1622.0	1543.7	1517.0	1522.3
37.5°	3048.1	2879.0	2585.2	2327.1	2061.8	1826.8	1646.9	1527.6	1429.7	1383.4	1388.8
40°	3172.8	2982.3	2619.1	2302.1	1997.7	1737.7	1550.8	1394.1	1258.8	1214.3	1208.9
42.5°	3290.3	3058.8	2636.9	2264.7	1924.7	1634.5	1413.7	1212.5	1077.2	1022.0	1023.8
45°	3413.1	3133.6	2629.7	2214.9	1833.9	1513.4	1237.4	1034.4	915.2	865.3	867.1
47.5°	3553.8	3213.7	2622.6	2161.5	1723.5	1356.7	1068.3	877.8	774.5	738.9	735.3
50°	3703.4	3302.8	2613.7	2095.6	1600.6	1182.2	900.9	731.8	644.5	621.4	616.0
52.5°	3872.5	3398.9	2608.4	2017.3	1452.9	997.1	751.4	603.6	544.8	528.8	527.0
55°	4075.5	3511.1	2615.5	1922.9	1274.8	822.6	624.9	519.9	480.7	471.8	470.0
57.5°	4323.0	3655.3	2636.9	1812.5	1087.9	671.2	532.4	468.3	443.3	436.2	436.2
60°	4591.8	3819.1	2676.0	1687.9	900.9	553.7	471.8	427.3	416.6	425.5	425.5
62.5°	4882.0	4011.4	2745.5	1536.5	726.4	468.3	423.7	393.5	386.4	404.2	405.9
65°	5150.9	4198.3	2790.0	1354.9	576.9	405.9	386.4	359.7	363.2	381.0	379.2
67.5°	5316.5	4353.2	2727.7	1127.0	457.6	359.7	347.2	324.0	332.9	347.2	349.0
70°	5215.0	4266.0	2419.6	851.1	357.9	313.4	304.5	290.2	297.3	315.1	322.3
72.5°	4718.2	3820.9	1881.9	575.1	288.4	263.5	267.1	259.9	268.8	284.9	300.9
75°	3829.8	2887.9	1262.3	368.6	227.9	224.3	229.7	224.3	227.9	243.9	252.8
77.5°	1999.5	1408.3	628.5	229.7	169.1	174.5	183.4	185.2	195.9	199.4	203.0
80°	933.0	633.8	261.7	128.2	112.2	122.9	140.7	142.4	146.0	151.3	153.1
82.5°	304.5	190.5	121.1	69.4	64.1	69.4	90.8	108.6	110.4	121.1	121.1
85°	32.0	19.6	26.7	28.5	24.9	30.3	41.0	39.2	17.8	10.7	10.7
87.5°	8.9	7.1	8.9	8.9	7.1	7.1	5.3	1.8	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)