

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: P800179

Luminaire Tested: **ARCH2-80-740-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800179
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: ARCH2-80-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11607 lumens
Efficiency: N/A
Efficacy: 137.7 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): 84.3
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

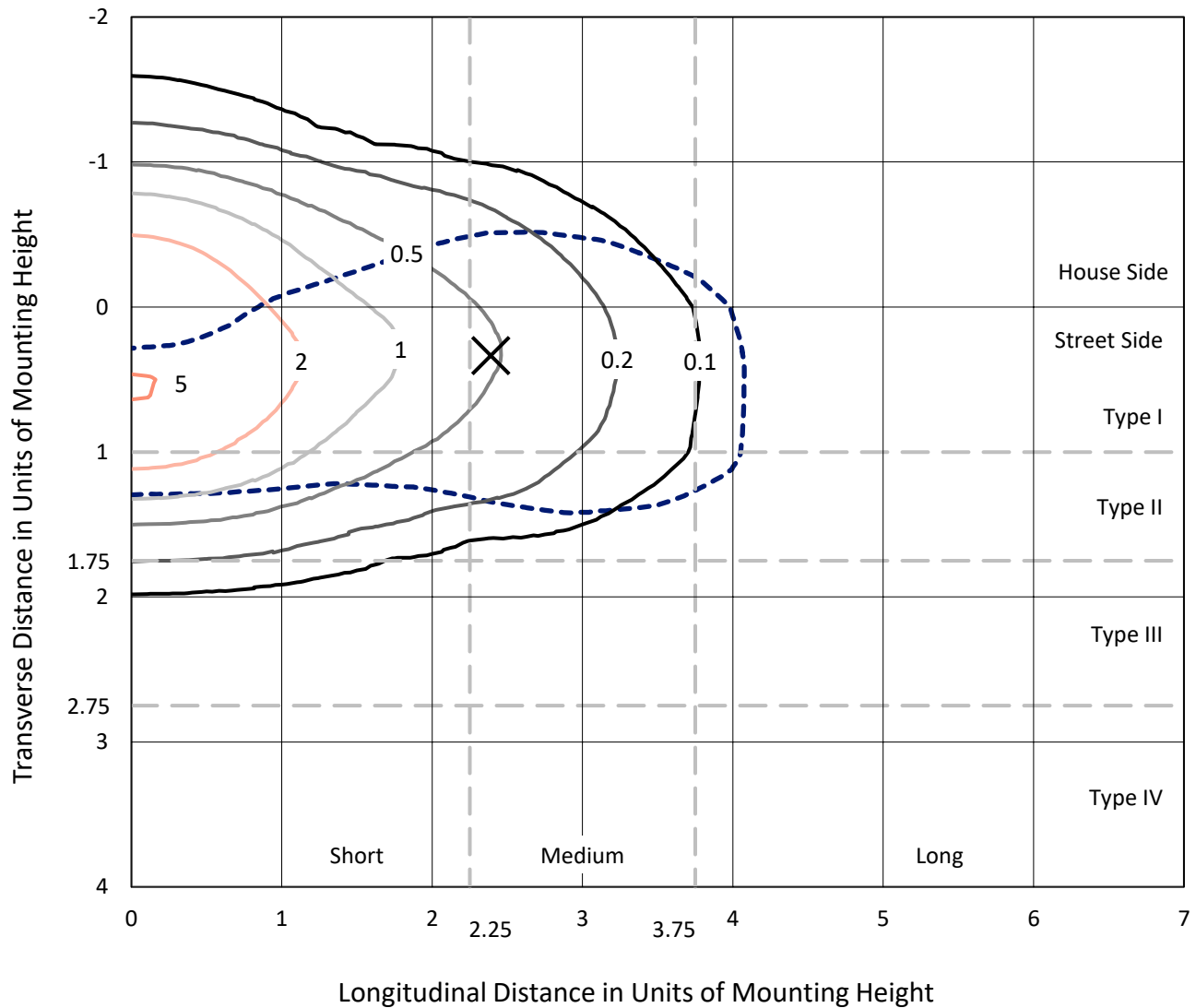


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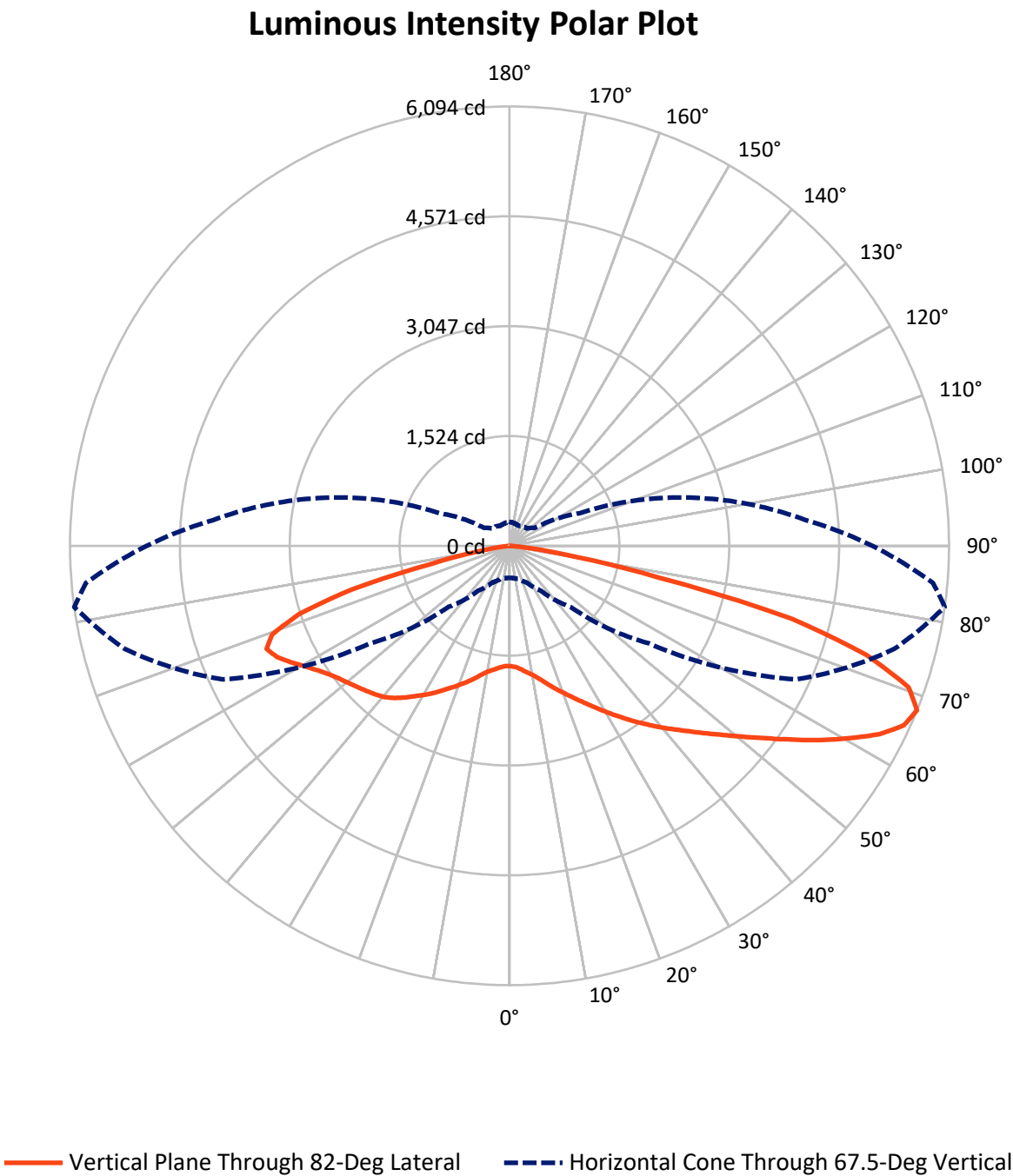
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type II - Medium - N/A

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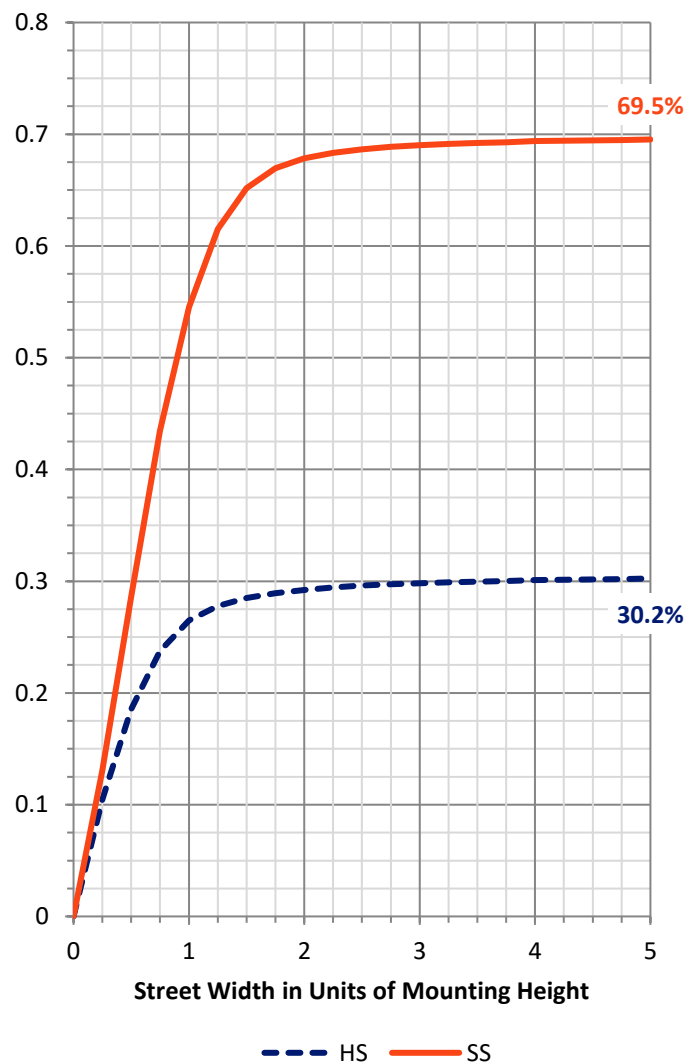
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3534.8	0.0	3534.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8072.2	0.0	8072.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	11607.0	0.0	11607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	1.5
10°-20°	621.1	5.4
20°-30°	1248.3	10.8
30°-40°	1960.9	16.9
40°-50°	2388.7	20.6
50°-60°	2257.0	19.4
60°-70°	1863.8	16.1
70°-80°	1014.9	8.7
80°-90°	79.8	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°	11607.0	100.0
0°-180°	11607.0	100.0

Coefficient of Utilization



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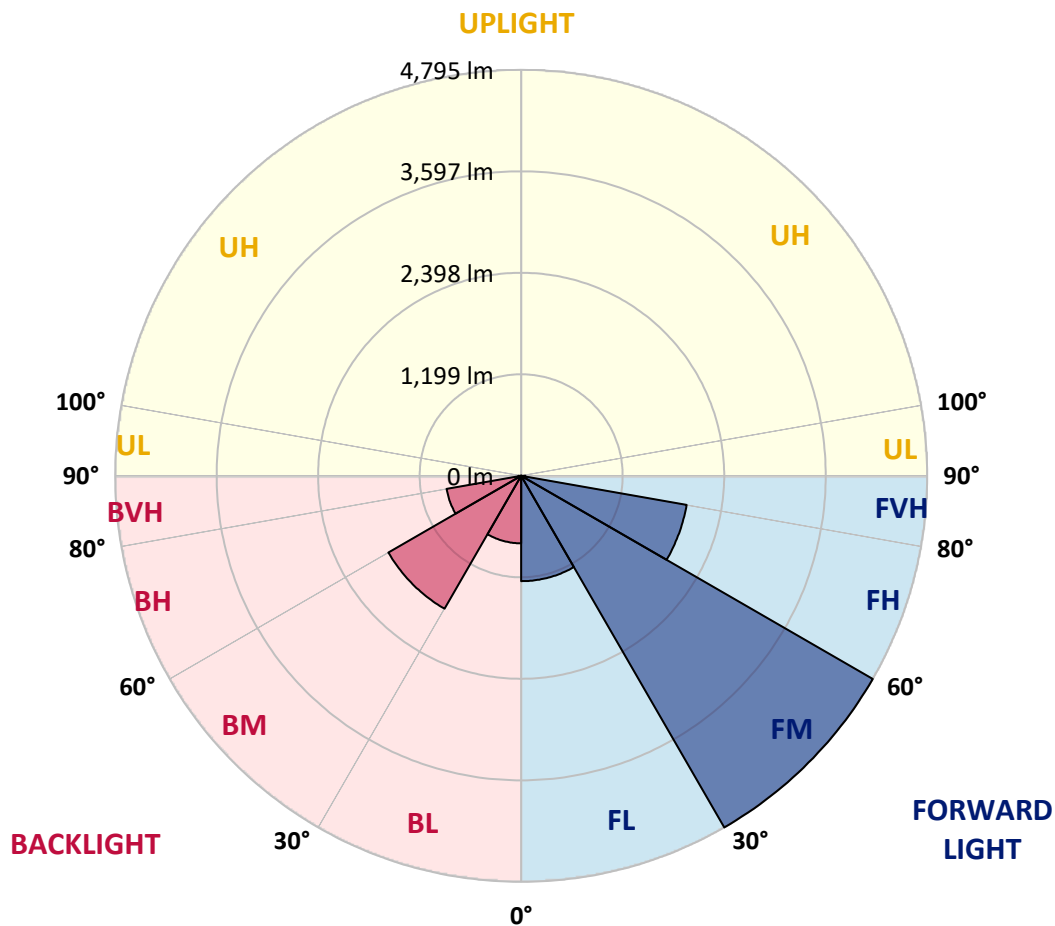
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1244.7	10.7			
FM	(30°-60°)	4795.3	41.3			
FH	(60°-80°)	1984.1	17.1			G2/5000
FVH	(80°-90°)	48.1	0.4			G1/100
BL	(0°-30°)	797.1	6.9	B2/1000		
BM	(30°-60°)	1811.3	15.6	B2/2500		
BH	(60°-80°)	894.7	7.7	B2/1000		G2/1000
BVH	(80°-90°)	31.7	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°	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5
2.5°	1744.3	1744.3	1757.8	1757.8	1746.0	1727.5	1722.4	1702.2	1683.7	1683.7	1685.4
5°	1911.2	1909.5	1919.6	1906.1	1877.5	1840.4	1815.1	1771.3	1734.2	1722.4	1720.7
7.5°	2115.1	2113.4	2118.5	2096.6	2042.6	1982.0	1931.4	1860.6	1800.0	1774.7	1767.9
10°	2342.6	2341.0	2335.9	2298.8	2226.4	2132.0	2056.1	1958.4	1867.4	1826.9	1818.5
12.5°	2603.9	2600.5	2588.7	2534.8	2435.3	2314.0	2204.4	2078.0	1956.7	1901.1	1882.5
15°	2895.4	2890.4	2868.5	2802.7	2669.6	2516.2	2374.7	2212.9	2064.6	1992.1	1966.8
17.5°	3202.2	3202.2	3168.5	3070.7	2922.4	2732.0	2556.7	2351.1	2177.5	2088.2	2057.8
20°	3514.0	3512.3	3470.1	3352.2	3176.9	2957.8	2735.3	2509.5	2293.8	2185.9	2148.8
22.5°	3842.6	3839.2	3787.0	3652.2	3443.2	3195.4	2935.9	2666.2	2421.9	2292.1	2244.9
25°	4220.1	4215.1	4151.0	3985.9	3738.1	3458.3	3161.7	2849.9	2568.5	2410.1	2354.4
27.5°	4621.2	4614.5	4538.7	4346.5	4075.2	3738.1	3411.2	3062.3	2730.3	2541.5	2479.2
30°	4978.5	4973.5	4890.9	4693.7	4381.9	4016.2	3648.8	3274.6	2900.5	2681.4	2603.9
32.5°	5248.2	5248.2	5174.0	4980.2	4656.6	4282.5	3888.1	3475.2	3077.5	2831.4	2740.4
35°	5411.7	5416.7	5352.7	5197.6	4892.6	4533.6	4135.9	3711.1	3266.2	2991.5	2893.8
37.5°	5435.3	5452.1	5415.0	5310.5	5056.1	4742.6	4378.5	3938.7	3461.7	3153.3	3043.7
40°	5325.7	5337.5	5339.2	5298.8	5123.5	4892.6	4592.6	4179.7	3669.0	3323.5	3197.1
42.5°	5106.6	5115.0	5130.2	5142.0	5074.6	4958.3	4756.1	4403.8	3889.8	3497.1	3348.8
45°	4823.5	4821.8	4847.1	4897.6	4894.3	4921.2	4847.1	4607.8	4119.0	3694.3	3517.3
47.5°	4400.5	4392.0	4481.4	4596.0	4653.3	4779.7	4848.8	4767.9	4368.4	3911.7	3709.5
50°	3738.1	3729.7	3925.2	4194.8	4363.4	4555.5	4756.1	4863.9	4629.7	4156.1	3918.4
52.5°	2932.5	2924.1	3171.8	3643.7	4011.1	4290.9	4569.0	4885.8	4877.4	4429.1	4154.4
55°	2180.8	2174.1	2415.1	2925.8	3520.7	3984.2	4339.8	4828.5	5110.0	4742.6	4440.9
57.5°	1537.0	1533.7	1742.7	2165.7	2890.4	3610.0	4119.0	4717.3	5324.0	5083.0	4764.5
60°	1078.6	1073.6	1225.3	1552.2	2185.9	3045.4	3899.9	4569.0	5484.1	5418.4	5108.3
62.5°	726.4	723.0	830.9	1103.9	1552.2	2344.3	3567.9	4469.6	5575.2	5755.5	5455.5
65°	551.1	549.4	598.3	748.3	1098.9	1683.7	3040.4	4457.8	5586.9	6008.3	5750.4
67.5°	444.9	446.6	473.6	559.5	760.1	1196.6	2357.8	4383.6	5524.6	6094.2	5893.7
70°	364.0	364.0	375.8	433.1	561.2	807.3	1646.6	4046.5	5351.0	5870.1	5723.5
72.5°	278.1	279.8	316.8	350.6	423.0	566.3	1055.0	3348.8	4941.5	5175.7	5064.5
75°	220.8	219.1	241.0	288.2	328.6	404.5	647.2	2401.6	4205.0	4044.8	3974.1
77.5°	158.4	156.7	173.6	214.0	249.4	286.5	385.9	1211.8	2287.0	2101.6	2049.4
80°	107.9	104.5	119.7	148.3	165.2	168.5	188.8	465.2	997.7	940.4	928.6
82.5°	55.6	55.6	64.0	84.3	86.0	87.6	84.3	150.0	330.3	308.4	294.9
85°	21.9	21.9	23.6	28.7	28.7	30.3	30.3	38.8	35.4	33.7	32.0
87.5°	1.7	1.7	3.4	3.4	5.1	5.1	5.1	6.7	8.4	8.4	8.4
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°	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5
2.5°	1682.0	1675.2	1653.3	1648.3	1644.9	1639.8	1641.5	1629.7	1624.7	1626.4	1619.6
5°	1712.3	1700.5	1673.6	1661.8	1658.4	1653.3	1658.4	1650.0	1641.5	1644.9	1641.5
7.5°	1754.5	1737.6	1703.9	1692.1	1690.4	1685.4	1692.1	1685.4	1678.6	1682.0	1675.2
10°	1798.3	1776.4	1739.3	1727.5	1727.5	1725.8	1732.5	1722.4	1715.7	1717.4	1714.0
12.5°	1862.3	1833.7	1793.2	1783.1	1778.0	1783.1	1784.8	1771.3	1759.5	1761.2	1756.1
15°	1939.8	1907.8	1864.0	1848.8	1845.5	1843.8	1837.0	1820.2	1805.0	1803.3	1798.3
17.5°	2024.1	1983.7	1931.4	1916.2	1901.1	1896.0	1879.2	1857.3	1833.7	1833.7	1826.9
20°	2105.0	2059.5	1997.1	1975.2	1953.3	1933.1	1904.4	1869.1	1838.7	1833.7	1826.9
22.5°	2192.6	2138.7	2066.2	2034.2	1995.5	1955.0	1906.1	1858.9	1820.2	1811.8	1806.7
25°	2290.4	2223.0	2137.0	2089.8	2027.5	1965.1	1892.7	1832.0	1786.5	1773.0	1769.6
27.5°	2398.3	2317.4	2212.9	2143.8	2052.8	1955.0	1862.3	1789.8	1734.2	1717.4	1712.3
30°	2507.8	2411.7	2282.0	2180.8	2052.8	1923.0	1806.7	1722.4	1658.4	1634.8	1631.4
32.5°	2617.4	2509.5	2344.3	2201.1	2032.5	1869.1	1734.2	1634.8	1562.3	1533.7	1540.4
35°	2748.8	2617.4	2401.6	2209.5	1998.8	1803.3	1651.6	1535.4	1461.2	1435.9	1441.0
37.5°	2885.3	2725.2	2447.1	2202.8	1951.6	1729.2	1559.0	1446.0	1353.3	1309.5	1314.6
40°	3003.3	2823.0	2479.2	2179.2	1891.0	1644.9	1467.9	1319.6	1191.5	1149.4	1144.4
42.5°	3114.5	2895.4	2496.0	2143.8	1821.9	1547.2	1338.2	1147.7	1019.6	967.4	969.1
45°	3230.8	2966.2	2489.3	2096.6	1735.9	1432.6	1171.3	979.2	866.3	819.1	820.8
47.5°	3364.0	3042.1	2482.5	2046.0	1631.4	1284.2	1011.2	830.9	733.1	699.4	696.1
50°	3505.5	3126.3	2474.1	1983.7	1515.1	1119.1	852.8	692.7	610.1	588.2	583.1
52.5°	3665.6	3217.3	2469.0	1909.5	1375.2	943.8	711.2	571.3	515.7	500.6	498.9
55°	3857.8	3323.5	2475.8	1820.2	1206.7	778.6	591.6	492.1	455.0	446.6	444.9
57.5°	4092.0	3460.0	2496.0	1715.7	1029.8	635.4	503.9	443.2	419.7	412.9	412.9
60°	4346.5	3615.1	2533.1	1597.7	852.8	524.1	446.6	404.5	394.4	402.8	402.8
62.5°	4621.2	3797.1	2598.8	1454.5	687.6	443.2	401.1	372.5	365.7	382.6	384.3
65°	4875.7	3974.1	2640.9	1282.6	546.1	384.3	365.7	340.4	343.8	360.7	359.0
67.5°	5032.5	4120.7	2582.0	1066.8	433.1	340.4	328.6	306.7	315.2	328.6	330.3
70°	4936.4	4038.1	2290.4	805.6	338.8	296.6	288.2	274.7	281.5	298.3	305.0
72.5°	4466.2	3616.8	1781.4	544.4	273.0	249.4	252.8	246.1	254.5	269.7	284.8
75°	3625.2	2733.6	1194.9	348.9	215.7	212.4	217.4	212.4	215.7	230.9	239.3
77.5°	1892.7	1333.1	594.9	217.4	160.1	165.2	173.6	175.3	185.4	188.8	192.1
80°	883.1	600.0	247.7	121.3	106.2	116.3	133.1	134.8	138.2	143.3	144.9
82.5°	288.2	180.3	114.6	65.7	60.7	65.7	86.0	102.8	104.5	114.6	114.6
85°	30.3	18.5	25.3	27.0	23.6	28.7	38.8	37.1	16.9	10.1	10.1
87.5°	8.4	6.7	8.4	8.4	6.7	6.7	5.1	1.7	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)