

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: P799347

Luminaire Tested: **ARCH2-110-722-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799347
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: ARCH2-110-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11518 lumens
Efficiency: N/A
Efficacy: 105.2 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): 109.5
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

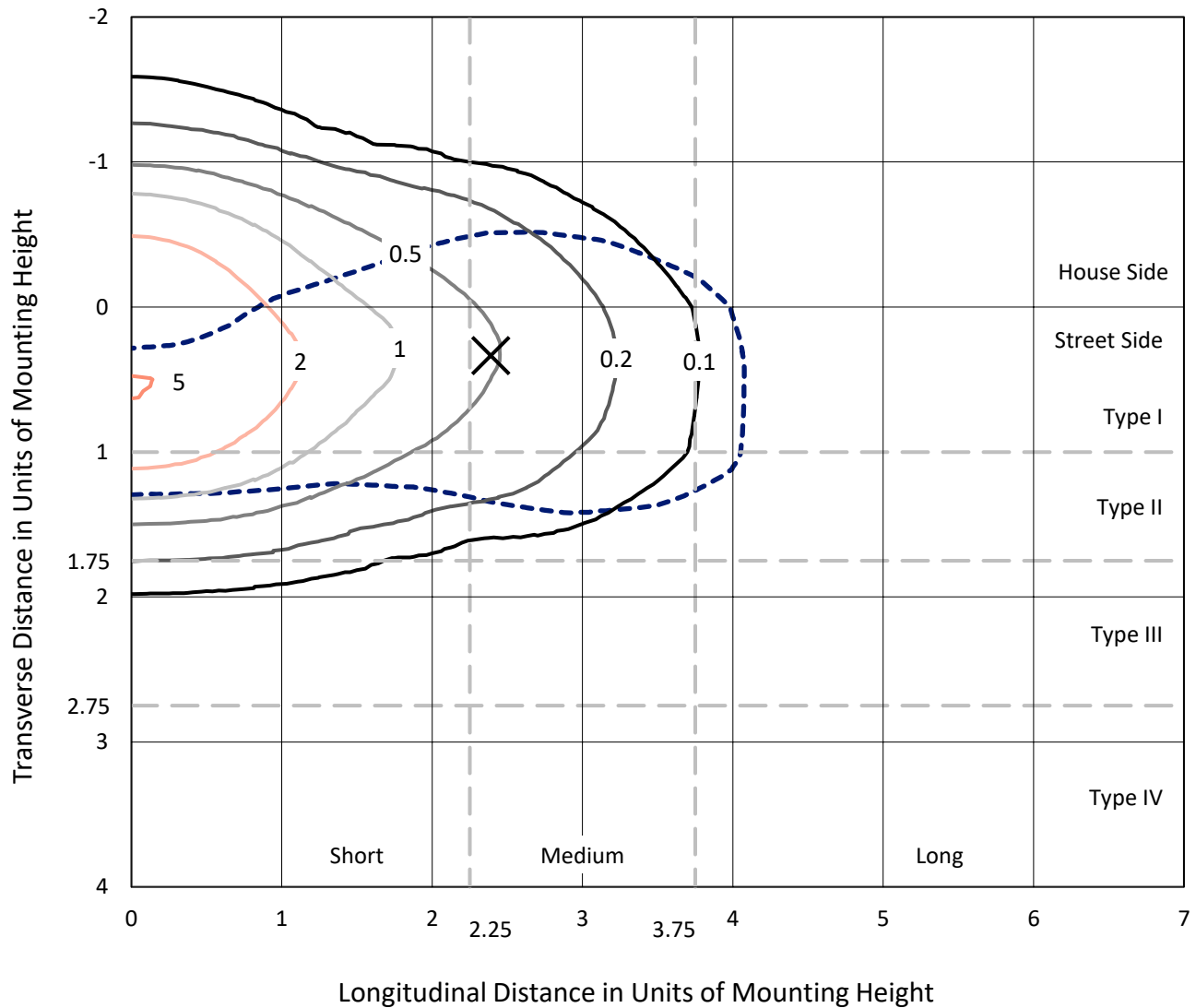


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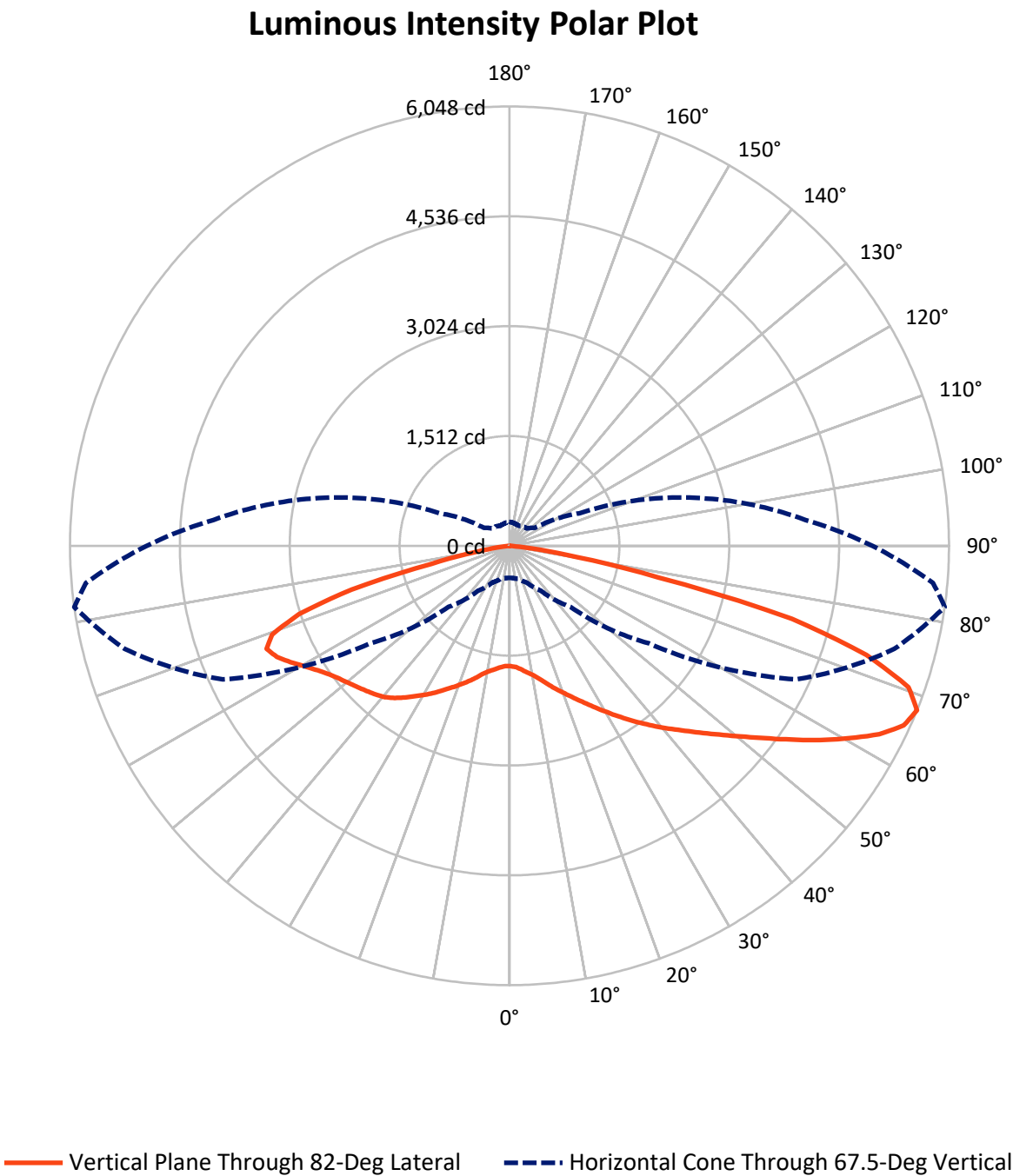
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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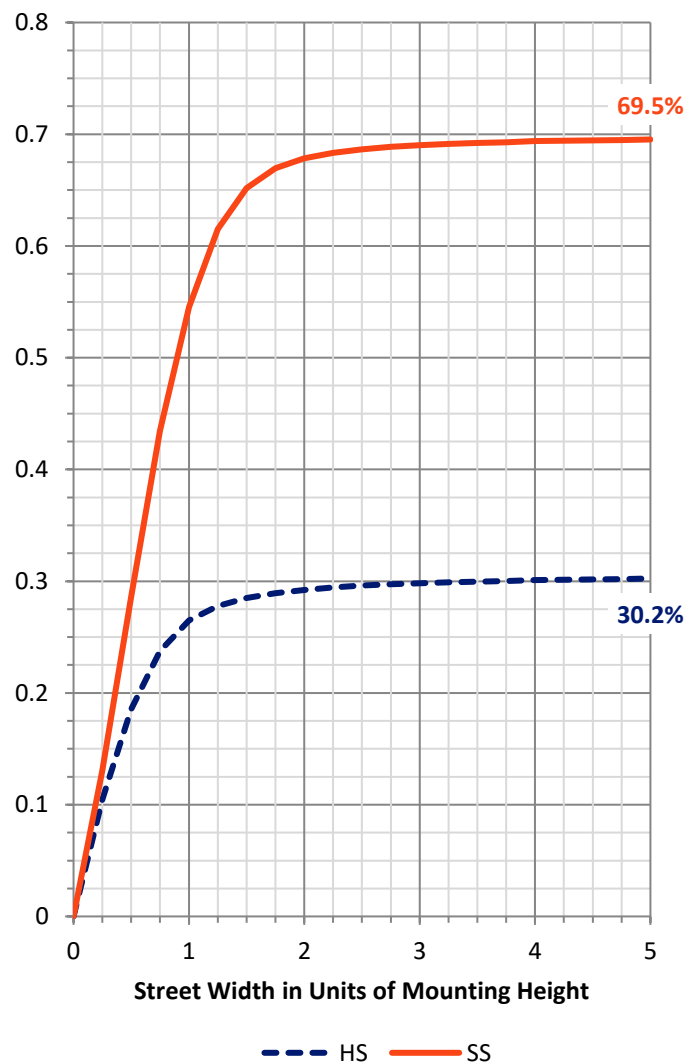
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3507.7	0.0	3507.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8010.3	0.0	8010.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	11518.0	0.0	11518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	1.5
10°-20°	616.3	5.4
20°-30°	1238.7	10.8
30°-40°	1945.8	16.9
40°-50°	2370.4	20.6
50°-60°	2239.7	19.4
60°-70°	1849.5	16.1
70°-80°	1007.1	8.7
80°-90°	79.2	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°	11518.0	100.0
0°-180°	11518.0	100.0

Coefficient of Utilization



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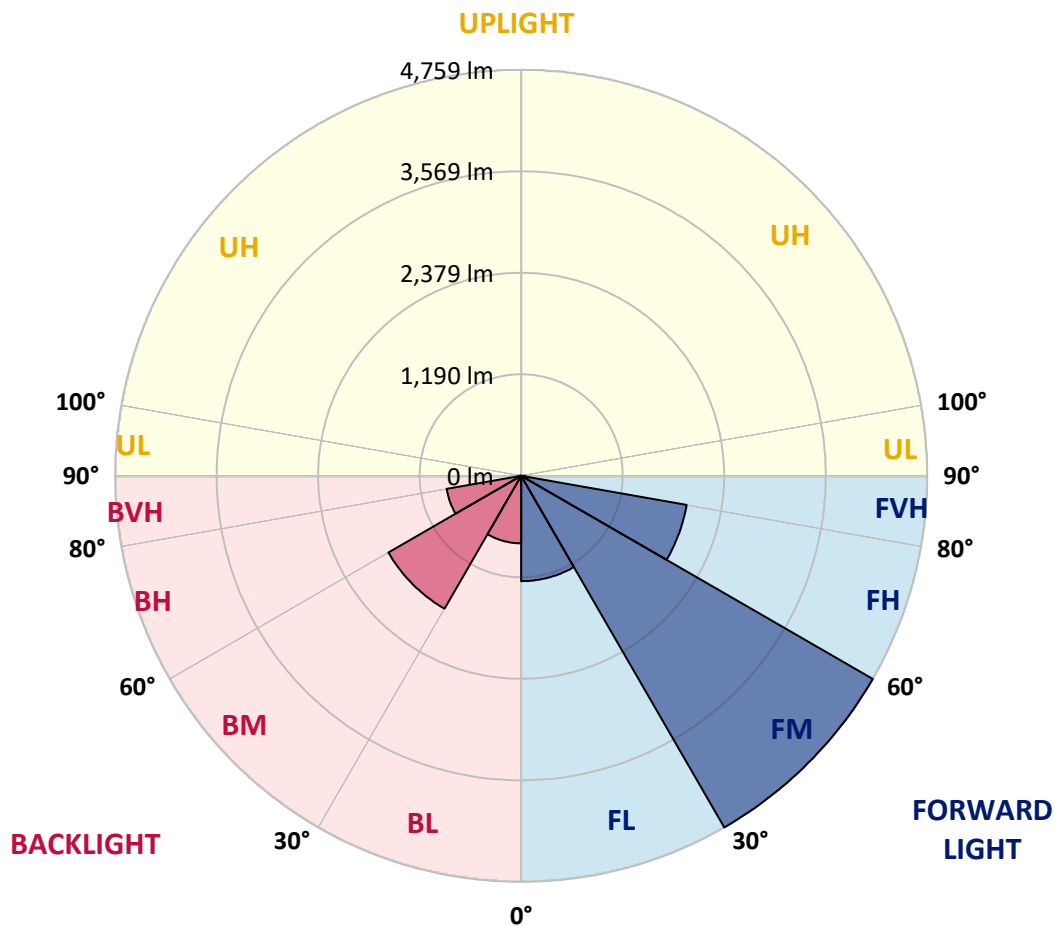
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1235.2	10.7			
FM	(30°-60°)	4758.6	41.3			
FH	(60°-80°)	1968.8	17.1			G2/5000
FVH	(80°-90°)	47.7	0.4			G1/100
BL	(0°-30°)	791.0	6.9	B2/1000		
BM	(30°-60°)	1797.4	15.6	B2/2500		
BH	(60°-80°)	887.8	7.7	B2/1000		G2/1000
BVH	(80°-90°)	31.5	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°	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7
2.5°	1731.0	1731.0	1744.3	1744.3	1732.6	1714.2	1709.2	1689.2	1670.8	1670.8	1672.4
5°	1896.5	1894.9	1904.9	1891.5	1863.1	1826.3	1801.2	1757.7	1720.9	1709.2	1707.6
7.5°	2098.9	2097.2	2102.2	2080.5	2027.0	1966.8	1916.6	1846.4	1786.2	1761.1	1754.4
10°	2324.7	2323.0	2318.0	2281.2	2209.3	2115.6	2040.4	1943.4	1853.1	1812.9	1804.6
12.5°	2583.9	2580.6	2568.9	2515.3	2416.7	2296.2	2187.5	2062.1	1941.7	1886.5	1868.1
15°	2873.2	2868.2	2846.5	2781.3	2649.1	2496.9	2356.5	2195.9	2048.7	1976.8	1951.7
17.5°	3177.6	3177.6	3144.2	3047.2	2900.0	2711.0	2537.1	2333.0	2160.8	2072.1	2042.0
20°	3487.0	3485.3	3443.5	3326.5	3152.5	2935.1	2714.4	2490.2	2276.2	2169.1	2132.3
22.5°	3813.1	3809.8	3758.0	3624.2	3416.8	3170.9	2913.4	2645.8	2403.3	2274.5	2227.7
25°	4187.8	4182.7	4119.2	3955.3	3709.5	3431.8	3137.5	2828.1	2548.8	2391.6	2336.4
27.5°	4585.8	4579.1	4503.9	4313.2	4043.9	3709.5	3385.0	3038.8	2709.3	2522.0	2460.1
30°	4940.4	4935.3	4853.4	4657.7	4348.3	3985.4	3620.8	3249.5	2878.3	2660.8	2583.9
32.5°	5207.9	5207.9	5134.4	4942.0	4620.9	4249.6	3858.3	3448.6	3053.9	2809.7	2719.4
35°	5370.2	5375.2	5311.6	5157.8	4855.1	4498.8	4104.1	3682.7	3241.2	2968.6	2871.6
37.5°	5393.6	5410.3	5373.5	5269.8	5017.3	4706.2	4345.0	3908.5	3435.2	3129.1	3020.4
40°	5284.9	5296.6	5298.3	5258.1	5084.2	4855.1	4557.4	4147.6	3640.9	3298.0	3172.6
42.5°	5067.5	5075.8	5090.9	5102.6	5035.7	4920.3	4719.6	4370.1	3860.0	3470.3	3323.1
45°	4786.5	4784.8	4809.9	4860.1	4856.7	4883.5	4809.9	4572.4	4087.4	3666.0	3490.4
47.5°	4366.7	4358.4	4447.0	4560.7	4617.6	4743.0	4811.6	4731.3	4334.9	3881.7	3681.0
50°	3709.5	3701.1	3895.1	4162.7	4329.9	4520.6	4719.6	4826.6	4594.2	4124.2	3888.4
52.5°	2910.0	2901.7	3147.5	3615.8	3980.4	4258.0	4534.0	4848.4	4840.0	4395.1	4122.5
55°	2164.1	2157.4	2396.6	2903.3	3493.7	3953.6	4306.5	4791.5	5070.8	4706.2	4406.9
57.5°	1525.3	1521.9	1729.3	2149.1	2868.2	3582.3	4087.4	4681.1	5283.2	5044.1	4728.0
60°	1070.4	1065.3	1215.9	1540.3	2169.1	3022.1	3870.0	4534.0	5442.1	5376.9	5069.1
62.5°	720.8	717.5	824.5	1095.4	1540.3	2326.4	3540.5	4435.3	5532.4	5711.4	5413.7
65°	546.9	545.2	593.7	742.6	1090.4	1670.8	3017.1	4423.6	5544.1	5962.2	5706.3
67.5°	441.5	443.2	470.0	555.2	754.3	1187.4	2339.7	4350.0	5482.2	6047.5	5848.5
70°	361.2	361.2	373.0	429.8	556.9	801.1	1634.0	4015.5	5310.0	5825.1	5679.6
72.5°	276.0	277.6	314.4	347.9	419.8	561.9	1046.9	3323.1	4903.6	5136.0	5025.7
75°	219.1	217.4	239.2	286.0	326.1	401.4	642.2	2383.2	4172.7	4013.8	3943.6
77.5°	157.2	155.5	172.3	212.4	247.5	284.3	383.0	1202.5	2269.5	2085.5	2033.7
80°	107.0	103.7	118.7	147.2	163.9	167.2	187.3	461.6	990.1	933.2	921.5
82.5°	55.2	55.2	63.6	83.6	85.3	87.0	83.6	148.8	327.8	306.1	292.7
85°	21.7	21.7	23.4	28.4	28.4	30.1	30.1	38.5	35.1	33.4	31.8
87.5°	1.7	1.7	3.3	3.3	5.0	5.0	5.0	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°	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7	1655.7
2.5°	1669.1	1662.4	1640.7	1635.6	1632.3	1627.3	1628.9	1617.2	1612.2	1613.9	1607.2
5°	1699.2	1687.5	1660.7	1649.0	1645.7	1640.7	1645.7	1637.3	1628.9	1632.3	1628.9
7.5°	1741.0	1724.3	1690.8	1679.1	1677.4	1672.4	1679.1	1672.4	1665.7	1669.1	1662.4
10°	1784.5	1762.7	1725.9	1714.2	1714.2	1712.6	1719.3	1709.2	1702.5	1704.2	1700.9
12.5°	1848.0	1819.6	1779.5	1769.4	1764.4	1769.4	1771.1	1757.7	1746.0	1747.7	1742.7
15°	1925.0	1893.2	1849.7	1834.7	1831.3	1829.6	1822.9	1806.2	1791.2	1789.5	1784.5
17.5°	2008.6	1968.5	1916.6	1901.6	1886.5	1881.5	1864.8	1843.0	1819.6	1819.6	1812.9
20°	2088.9	2043.7	1981.8	1960.1	1938.3	1918.3	1889.8	1854.7	1824.6	1819.6	1812.9
22.5°	2175.8	2122.3	2050.4	2018.6	1980.2	1940.0	1891.5	1844.7	1806.2	1797.9	1792.8
25°	2272.8	2205.9	2120.6	2073.8	2011.9	1950.1	1878.1	1817.9	1772.8	1759.4	1756.1
27.5°	2379.9	2299.6	2195.9	2127.3	2037.0	1940.0	1848.0	1776.1	1720.9	1704.2	1699.2
30°	2488.6	2393.2	2264.5	2164.1	2037.0	1908.2	1792.8	1709.2	1645.7	1622.3	1618.9
32.5°	2597.3	2490.2	2326.4	2184.2	2017.0	1854.7	1720.9	1622.3	1550.3	1521.9	1528.6
35°	2727.7	2597.3	2383.2	2192.6	1983.5	1789.5	1639.0	1523.6	1450.0	1424.9	1429.9
37.5°	2863.2	2704.3	2428.4	2185.9	1936.7	1715.9	1547.0	1434.9	1343.0	1299.5	1304.5
40°	2980.3	2801.3	2460.1	2162.5	1876.5	1632.3	1456.7	1309.5	1182.4	1140.6	1135.6
42.5°	3090.7	2873.2	2476.9	2127.3	1807.9	1535.3	1327.9	1138.9	1011.8	960.0	961.6
45°	3206.0	2943.5	2470.2	2080.5	1722.6	1421.6	1162.3	971.7	859.6	812.8	814.5
47.5°	3338.2	3018.7	2463.5	2030.3	1618.9	1274.4	1003.5	824.5	727.5	694.1	690.7
50°	3478.7	3102.4	2455.1	1968.5	1503.5	1110.5	846.3	687.4	605.4	583.7	578.7
52.5°	3637.5	3192.7	2450.1	1894.9	1364.7	936.6	705.8	567.0	511.8	496.7	495.0
55°	3828.2	3298.0	2456.8	1806.2	1197.5	772.7	587.0	488.3	451.6	443.2	441.5
57.5°	4060.7	3433.5	2476.9	1702.5	1021.9	630.5	500.1	439.8	416.4	409.7	409.7
60°	4313.2	3587.4	2513.7	1585.5	846.3	520.1	443.2	401.4	391.3	399.7	399.7
62.5°	4585.8	3768.0	2578.9	1443.3	682.4	439.8	398.0	369.6	362.9	379.6	381.3
65°	4838.3	3943.6	2620.7	1272.7	541.9	381.3	362.9	337.8	341.2	357.9	356.2
67.5°	4993.9	4089.1	2562.2	1058.6	429.8	337.8	326.1	304.4	312.7	326.1	327.8
70°	4898.5	4007.1	2272.8	799.4	336.2	294.3	286.0	272.6	279.3	296.0	302.7
72.5°	4431.9	3589.0	1767.8	540.2	270.9	247.5	250.9	244.2	252.5	267.6	282.6
75°	3597.4	2712.7	1185.8	346.2	214.1	210.7	215.7	210.7	214.1	229.1	237.5
77.5°	1878.1	1322.9	590.4	215.7	158.9	163.9	172.3	173.9	184.0	187.3	190.7
80°	876.4	595.4	245.8	120.4	105.4	115.4	132.1	133.8	137.1	142.2	143.8
82.5°	286.0	179.0	113.7	65.2	60.2	65.2	85.3	102.0	103.7	113.7	113.7
85°	30.1	18.4	25.1	26.8	23.4	28.4	38.5	36.8	16.7	10.0	10.0
87.5°	8.4	6.7	8.4	8.4	6.7	6.7	5.0	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)