

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: P800259

Luminaire Tested: **ARCH2-90-727-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800259
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: ARCH2-90-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11510 lumens
Efficiency: N/A
Efficacy: 122.8 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): 93.7
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

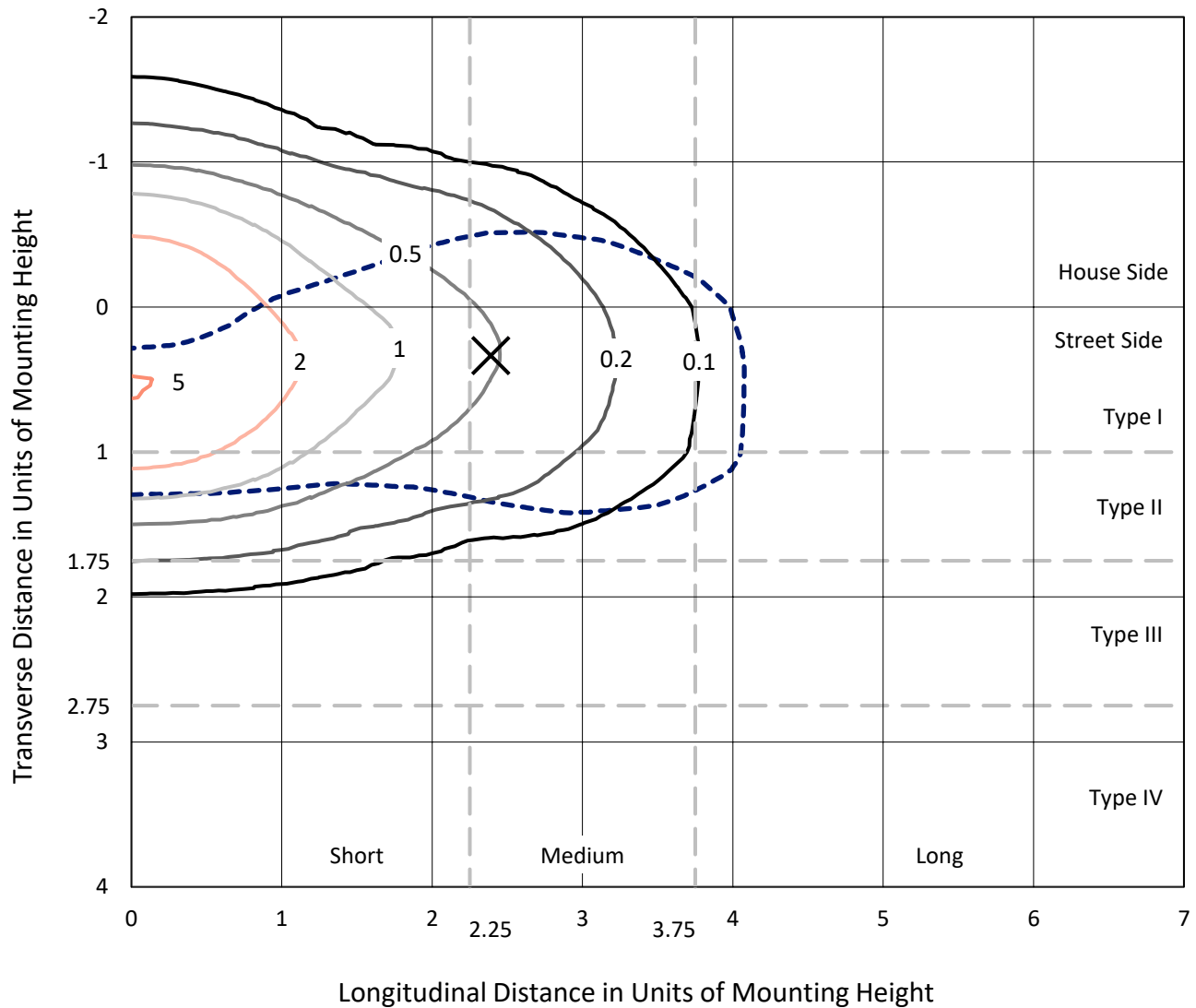


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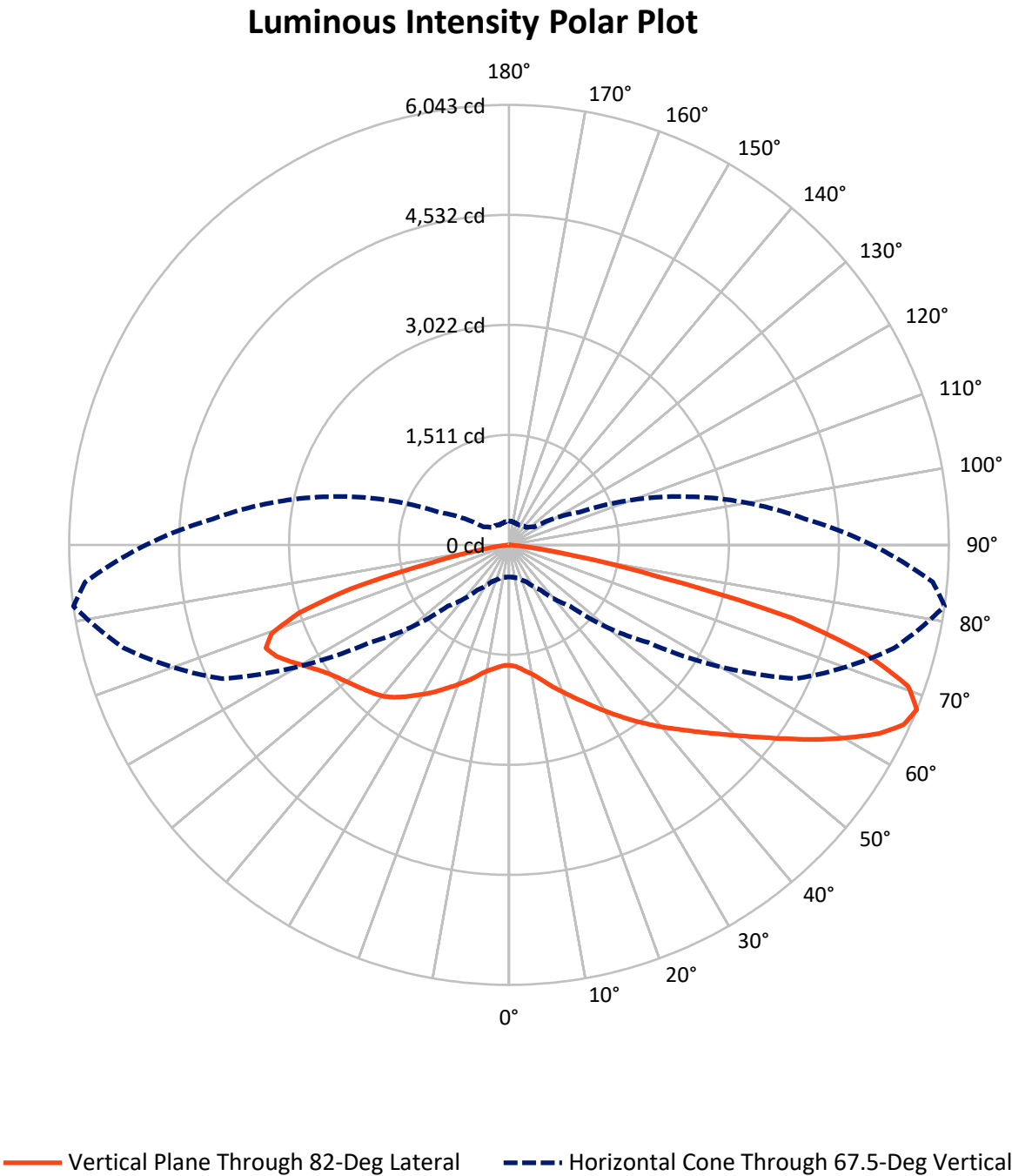
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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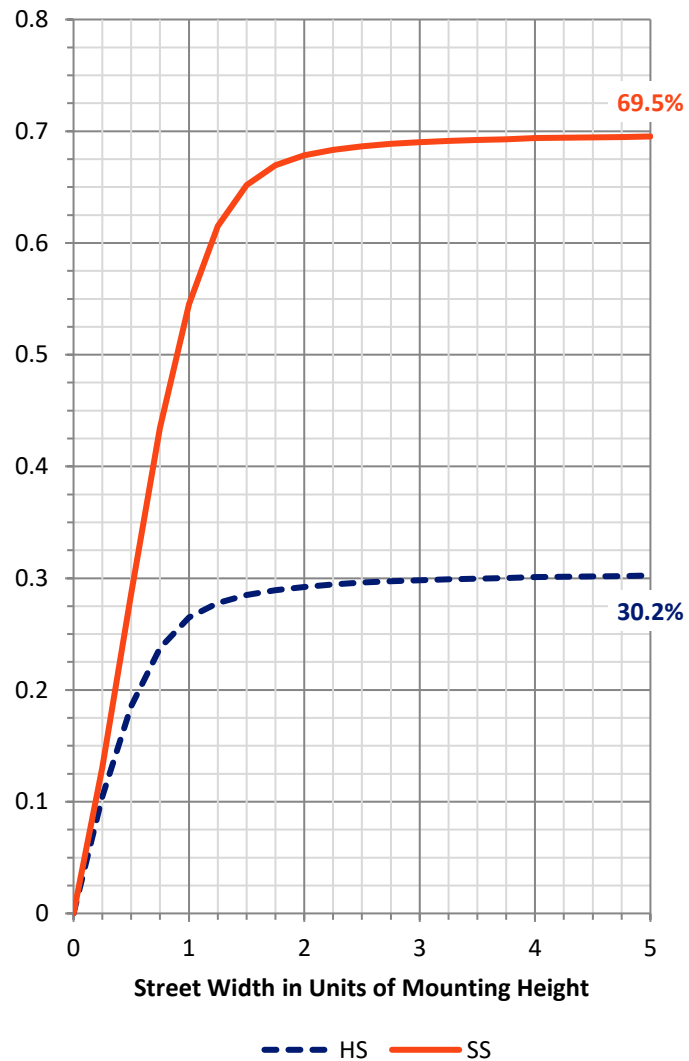
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3505.3	0.0	3505.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8004.7	0.0	8004.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	11510.0	0.0	11510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	1.5
10°-20°	615.9	5.4
20°-30°	1237.8	10.8
30°-40°	1944.5	16.9
40°-50°	2368.8	20.6
50°-60°	2238.2	19.4
60°-70°	1848.2	16.1
70°-80°	1006.4	8.7
80°-90°	79.1	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°	11510.0	100.0
0°-180°	11510.0	100.0

Coefficient of Utilization



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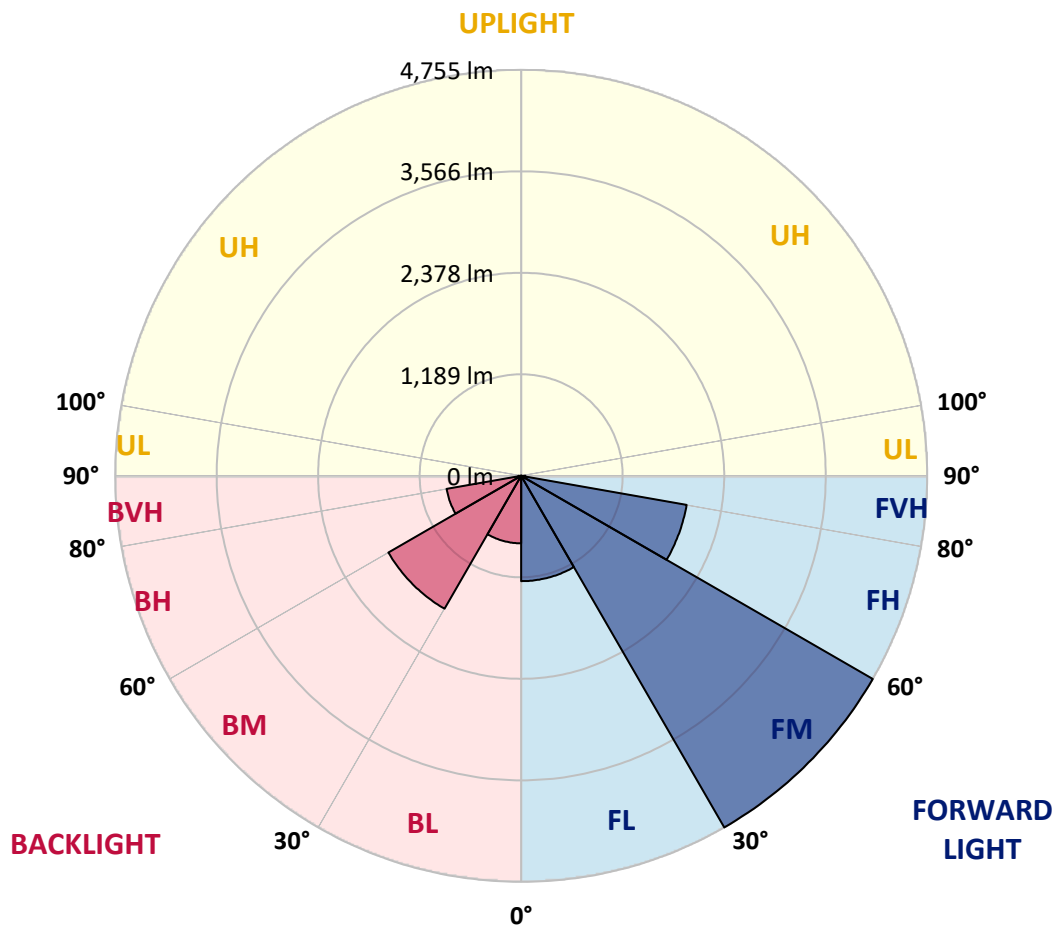
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1234.3	10.7			
FM	(30°-60°)	4755.3	41.3			
FH	(60°-80°)	1967.5	17.1			G2/5000
FVH	(80°-90°)	47.7	0.4			G1/100
BL	(0°-30°)	790.5	6.9	B2/1000		
BM	(30°-60°)	1796.2	15.6	B2/2500		
BH	(60°-80°)	887.2	7.7	B2/1000		G2/1000
BVH	(80°-90°)	31.4	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°	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6
2.5°	1729.8	1729.8	1743.1	1743.1	1731.4	1713.1	1708.0	1688.0	1669.6	1669.6	1671.3
5°	1895.2	1893.5	1903.6	1890.2	1861.8	1825.0	1800.0	1756.5	1719.7	1708.0	1706.4
7.5°	2097.4	2095.8	2100.8	2079.1	2025.6	1965.4	1915.3	1845.1	1784.9	1759.8	1753.2
10°	2323.1	2321.4	2316.4	2279.6	2207.7	2114.2	2038.9	1942.0	1851.8	1811.7	1803.3
12.5°	2582.1	2578.8	2567.1	2513.6	2415.0	2294.7	2186.0	2060.7	1940.3	1885.2	1866.8
15°	2871.2	2866.2	2844.5	2779.3	2647.3	2495.2	2354.8	2194.4	2047.3	1975.4	1950.4
17.5°	3175.4	3175.4	3142.0	3045.1	2898.0	2709.1	2535.3	2331.4	2159.3	2070.7	2040.6
20°	3484.6	3482.9	3441.1	3324.2	3150.3	2933.1	2712.5	2488.5	2274.6	2167.6	2130.9
22.5°	3810.5	3807.2	3755.3	3621.6	3414.4	3168.7	2911.4	2643.9	2401.6	2272.9	2226.1
25°	4184.9	4179.8	4116.3	3952.6	3706.9	3429.4	3135.3	2826.1	2547.0	2389.9	2334.8
27.5°	4582.6	4575.9	4500.7	4310.2	4041.1	3706.9	3382.6	3036.7	2707.5	2520.3	2458.4
30°	4936.9	4931.9	4850.0	4654.5	4345.3	3982.6	3618.3	3247.3	2876.3	2659.0	2582.1
32.5°	5204.3	5204.3	5130.8	4938.6	4617.7	4246.7	3855.6	3446.2	3051.7	2807.7	2717.5
35°	5366.4	5371.5	5308.0	5154.2	4851.7	4495.7	4101.3	3680.1	3238.9	2966.5	2869.6
37.5°	5389.8	5406.6	5369.8	5266.2	5013.8	4703.0	4342.0	3905.8	3432.8	3126.9	3018.3
40°	5281.2	5292.9	5294.6	5254.5	5080.7	4851.7	4554.2	4144.7	3638.4	3295.7	3170.4
42.5°	5063.9	5072.3	5087.3	5099.0	5032.2	4916.9	4716.3	4367.0	3857.3	3467.9	3320.8
45°	4783.2	4781.5	4806.6	4856.7	4853.4	4880.1	4806.6	4569.3	4084.6	3663.4	3487.9
47.5°	4363.7	4355.3	4443.9	4557.6	4614.4	4739.7	4808.2	4728.0	4331.9	3879.0	3678.5
50°	3706.9	3698.5	3892.4	4159.8	4326.9	4517.4	4716.3	4823.3	4591.0	4121.3	3885.7
52.5°	2908.0	2899.7	3145.3	3613.3	3977.6	4255.1	4530.8	4845.0	4836.7	4392.1	4119.7
55°	2162.6	2155.9	2394.9	2901.3	3491.3	3950.9	4303.5	4788.2	5067.3	4703.0	4403.8
57.5°	1524.2	1520.9	1728.1	2147.6	2866.2	3579.9	4084.6	4677.9	5279.5	5040.5	4724.7
60°	1069.6	1064.6	1215.0	1539.2	2167.6	3020.0	3867.3	4530.8	5438.3	5373.1	5065.6
62.5°	720.3	717.0	823.9	1094.7	1539.2	2324.7	3538.1	4432.2	5528.6	5707.4	5409.9
65°	546.5	544.8	593.3	742.0	1089.7	1669.6	3015.0	4420.5	5540.3	5958.1	5702.4
67.5°	441.2	442.9	469.6	554.9	753.7	1186.6	2338.1	4347.0	5478.4	6043.3	5844.4
70°	361.0	361.0	372.7	429.5	556.5	800.5	1632.8	4012.7	5306.3	5821.0	5675.6
72.5°	275.8	277.4	314.2	347.6	419.5	561.5	1046.2	3320.8	4900.2	5132.5	5022.2
75°	218.9	217.3	239.0	285.8	325.9	401.1	641.8	2381.6	4169.8	4011.0	3940.9
77.5°	157.1	155.4	172.1	212.3	247.3	284.1	382.7	1201.6	2267.9	2084.1	2032.3
80°	107.0	103.6	118.7	147.1	163.8	167.1	187.2	461.3	989.4	932.6	920.9
82.5°	55.2	55.2	63.5	83.6	85.2	86.9	83.6	148.7	327.6	305.8	292.5
85°	21.7	21.7	23.4	28.4	28.4	30.1	30.1	38.4	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°	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6
2.5°	1667.9	1661.2	1639.5	1634.5	1631.2	1626.1	1627.8	1616.1	1611.1	1612.8	1606.1
5°	1698.0	1686.3	1659.6	1647.9	1644.5	1639.5	1644.5	1636.2	1627.8	1631.2	1627.8
7.5°	1739.8	1723.1	1689.7	1678.0	1676.3	1671.3	1678.0	1671.3	1664.6	1667.9	1661.2
10°	1783.2	1761.5	1724.7	1713.1	1713.1	1711.4	1718.1	1708.0	1701.4	1703.0	1699.7
12.5°	1846.8	1818.3	1778.2	1768.2	1763.2	1768.2	1769.9	1756.5	1744.8	1746.5	1741.5
15°	1923.6	1891.9	1848.4	1833.4	1830.0	1828.4	1821.7	1805.0	1789.9	1788.3	1783.2
17.5°	2007.2	1967.1	1915.3	1900.2	1885.2	1880.2	1863.5	1841.7	1818.3	1818.3	1811.7
20°	2087.4	2042.3	1980.5	1958.7	1937.0	1916.9	1888.5	1853.4	1823.4	1818.3	1811.7
22.5°	2174.3	2120.8	2049.0	2017.2	1978.8	1938.7	1890.2	1843.4	1805.0	1796.6	1791.6
25°	2271.3	2204.4	2119.2	2072.4	2010.5	1948.7	1876.8	1816.7	1771.5	1758.2	1754.8
27.5°	2378.2	2298.0	2194.4	2125.9	2035.6	1938.7	1846.8	1774.9	1719.7	1703.0	1698.0
30°	2486.8	2391.6	2262.9	2162.6	2035.6	1906.9	1791.6	1708.0	1644.5	1621.1	1617.8
32.5°	2595.5	2488.5	2324.7	2182.7	2015.6	1853.4	1719.7	1621.1	1549.3	1520.9	1527.5
35°	2725.8	2595.5	2381.6	2191.0	1982.1	1788.3	1637.8	1522.5	1449.0	1423.9	1428.9
37.5°	2861.2	2702.4	2426.7	2184.3	1935.3	1714.7	1545.9	1433.9	1342.0	1298.6	1303.6
40°	2978.2	2799.4	2458.4	2161.0	1875.2	1631.2	1455.7	1308.6	1181.6	1139.8	1134.8
42.5°	3088.5	2871.2	2475.1	2125.9	1806.6	1534.2	1327.0	1138.1	1011.1	959.3	961.0
45°	3203.8	2941.4	2468.5	2079.1	1721.4	1420.6	1161.5	971.0	859.0	812.2	813.9
47.5°	3335.9	3016.6	2461.8	2028.9	1617.8	1273.5	1002.8	823.9	727.0	693.6	690.2
50°	3476.2	3100.2	2453.4	1967.1	1502.5	1109.7	845.7	686.9	605.0	583.3	578.3
52.5°	3635.0	3190.5	2448.4	1893.5	1363.8	935.9	705.3	566.6	511.4	496.4	494.7
55°	3825.5	3295.7	2455.1	1805.0	1196.6	772.1	586.6	488.0	451.2	442.9	441.2
57.5°	4057.8	3431.1	2475.1	1701.4	1021.1	630.1	499.7	439.5	416.1	409.5	409.5
60°	4310.2	3584.9	2511.9	1584.4	845.7	519.8	442.9	401.1	391.1	399.4	399.4
62.5°	4582.6	3765.4	2577.1	1442.3	681.9	439.5	397.8	369.4	362.7	379.4	381.0
65°	4835.0	3940.9	2618.9	1271.8	541.5	381.0	362.7	337.6	340.9	357.7	356.0
67.5°	4990.4	4086.3	2560.4	1057.9	429.5	337.6	325.9	304.2	312.5	325.9	327.6
70°	4895.1	4004.4	2271.3	798.9	335.9	294.1	285.8	272.4	279.1	295.8	302.5
72.5°	4428.9	3586.5	1766.5	539.8	270.7	247.3	250.7	244.0	252.4	267.4	282.4
75°	3594.9	2710.8	1184.9	346.0	213.9	210.6	215.6	210.6	213.9	229.0	237.3
77.5°	1876.8	1322.0	590.0	215.6	158.8	163.8	172.1	173.8	183.8	187.2	190.5
80°	875.7	595.0	245.7	120.3	105.3	115.3	132.0	133.7	137.0	142.1	143.7
82.5°	285.8	178.8	113.6	65.2	60.2	65.2	85.2	101.9	103.6	113.6	113.6
85°	30.1	18.4	25.1	26.7	23.4	28.4	38.4	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)