

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: P800131

Luminaire Tested: **ARCH2-80-727-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800131
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: ARCH2-80-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10667 lumens
Efficiency: N/A
Efficacy: 126.5 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

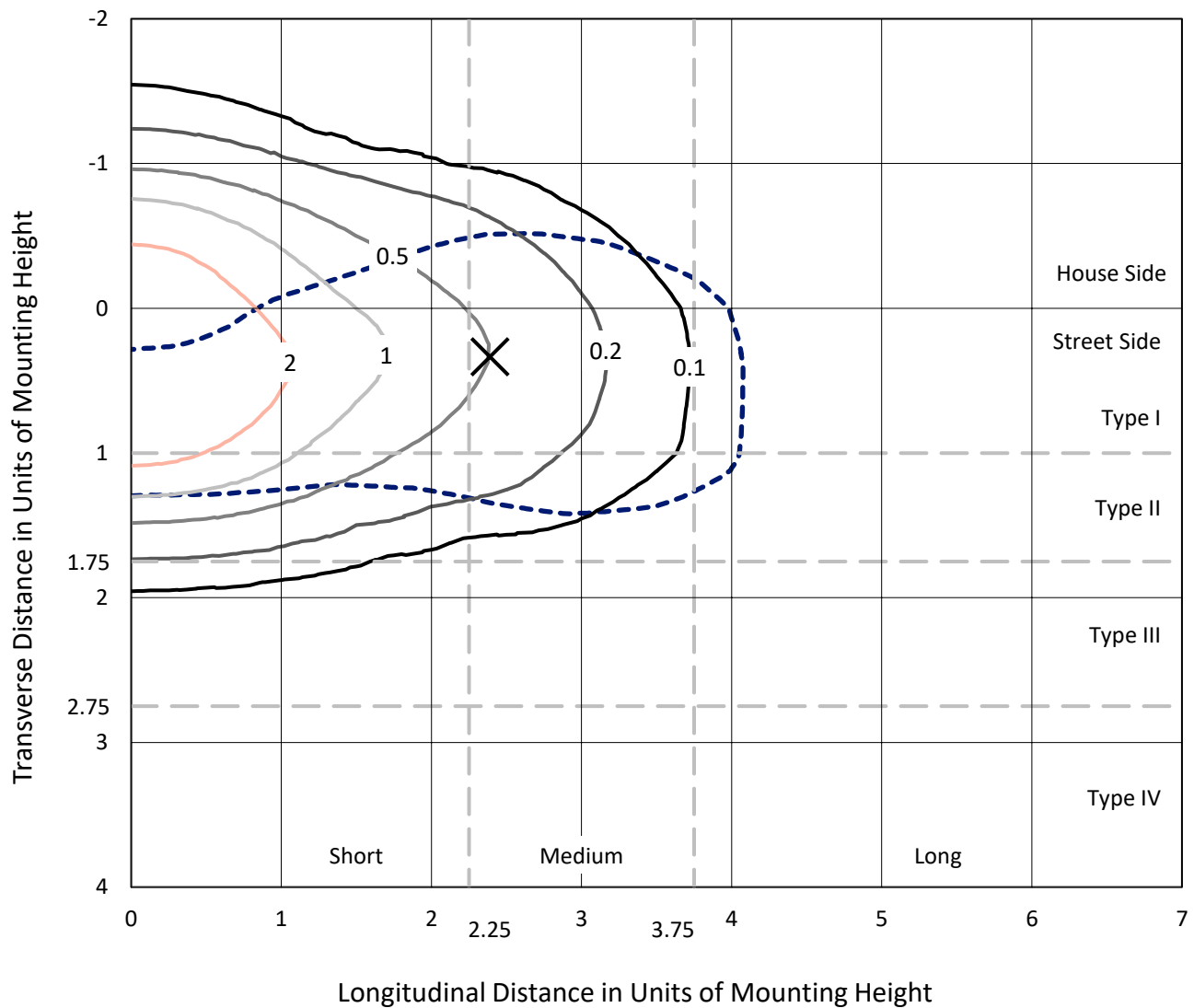


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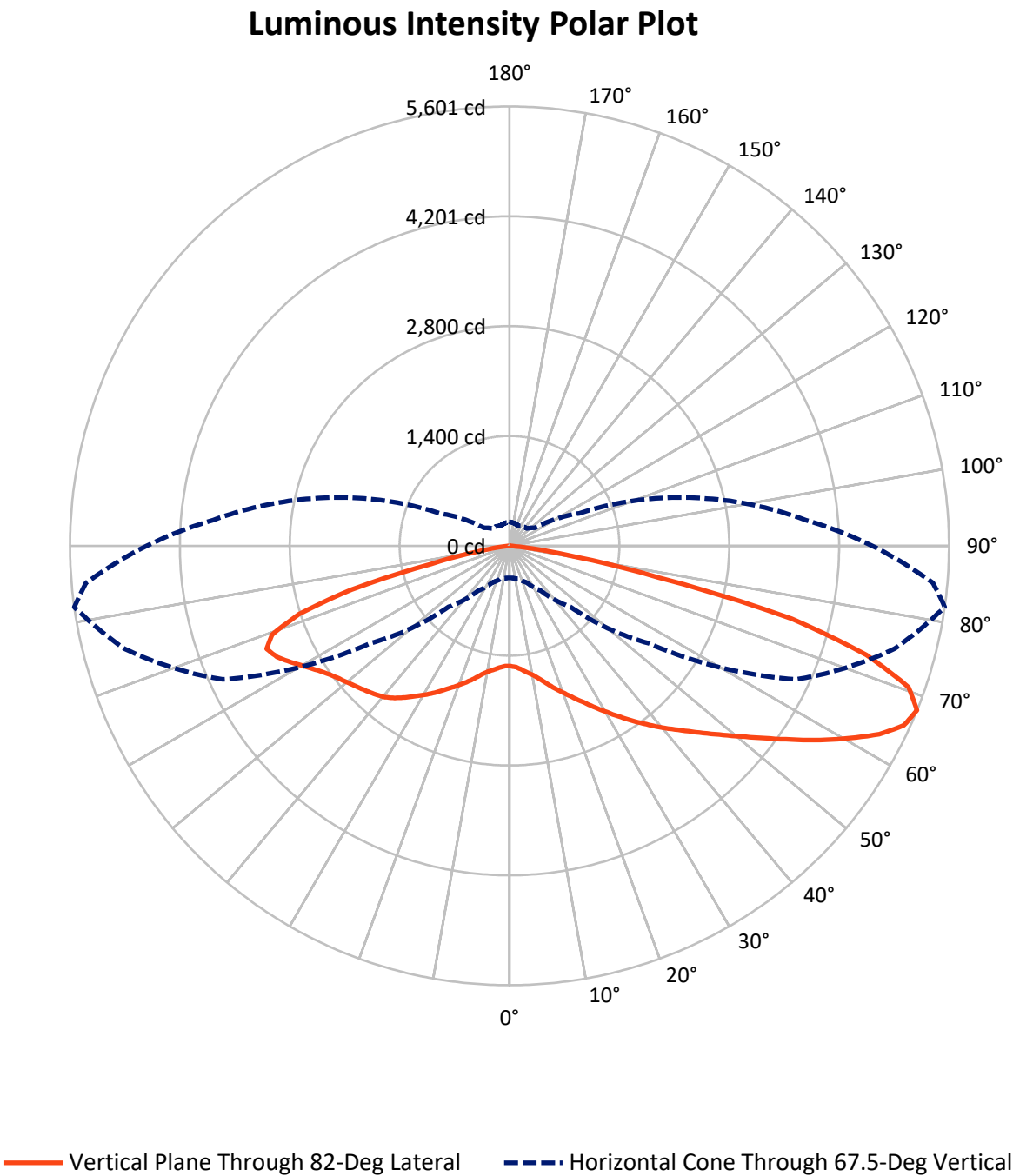
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Medium - N/A

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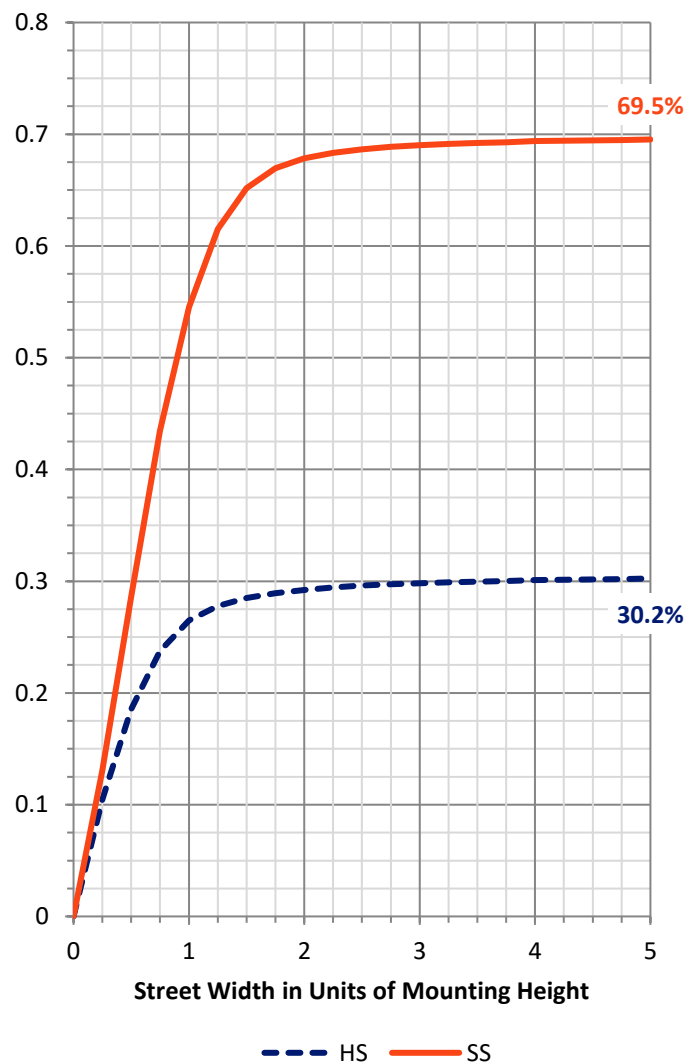
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3248.5	0.0	3248.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7418.5	0.0	7418.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	10667.0	0.0	10667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	1.5
10°-20°	570.8	5.4
20°-30°	1147.2	10.8
30°-40°	1802.1	16.9
40°-50°	2195.3	20.6
50°-60°	2074.3	19.4
60°-70°	1712.9	16.1
70°-80°	932.7	8.7
80°-90°	73.3	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°	10667.0	100.0
0°-180°	10667.0	100.0

Coefficient of Utilization



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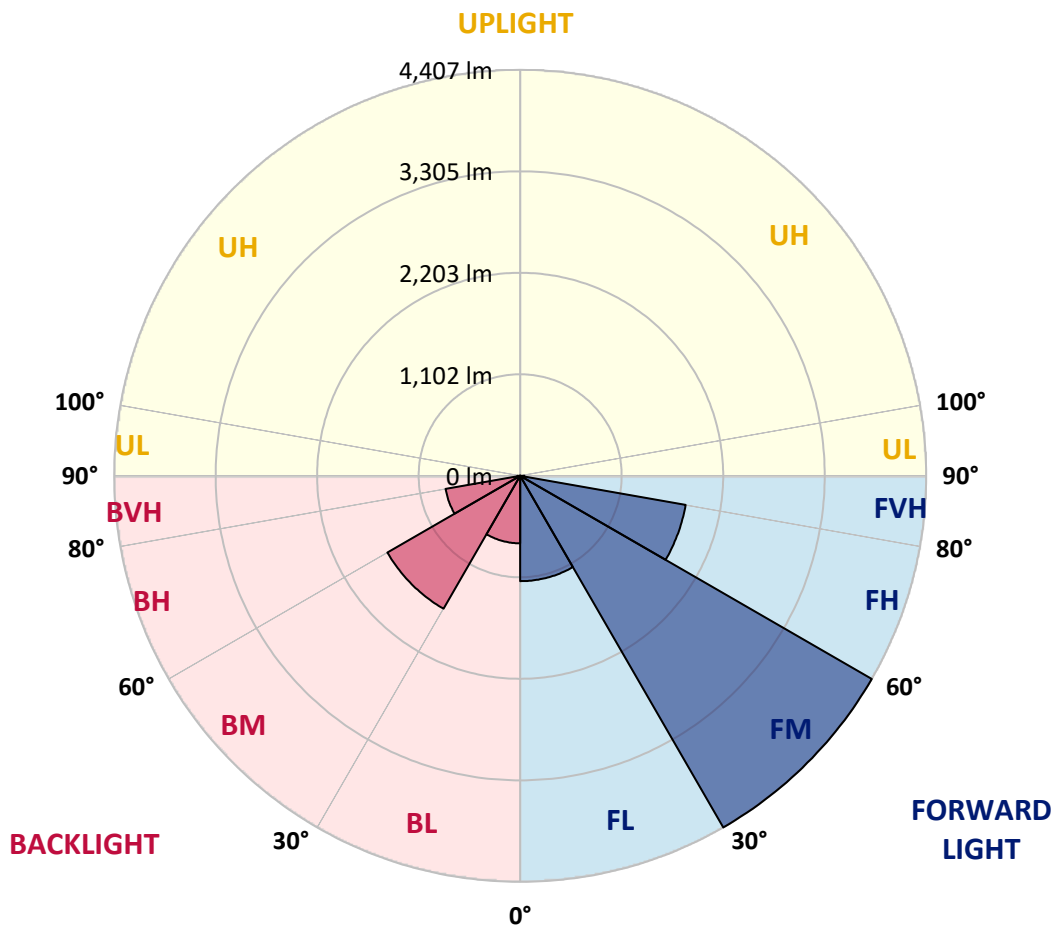
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1143.9	10.7			
FM	(30°-60°)	4407.0	41.3			
FH	(60°-80°)	1823.4	17.1			G2/5000
FVH	(80°-90°)	44.2	0.4			G1/100
BL	(0°-30°)	732.6	6.9	B2/1000		
BM	(30°-60°)	1664.6	15.6	B2/2500		
BH	(60°-80°)	822.2	7.7	B2/1000		G2/1000
BVH	(80°-90°)	29.1	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°	1533.4	1533.4	1533.4	1533.4	1533.4	1533.4	1533.4	1533.4	1533.4	1533.4	1533.4
2.5°	1603.1	1603.1	1615.5	1615.5	1604.6	1587.6	1582.9	1564.4	1547.3	1547.3	1548.9
5°	1756.4	1754.9	1764.2	1751.8	1725.4	1691.4	1668.1	1627.9	1593.8	1582.9	1581.4
7.5°	1943.8	1942.3	1946.9	1926.8	1877.2	1821.5	1775.0	1709.9	1654.2	1631.0	1624.8
10°	2152.9	2151.4	2146.7	2112.7	2046.0	1959.3	1889.6	1799.8	1716.1	1679.0	1671.2
12.5°	2393.0	2389.9	2379.1	2329.5	2238.1	2126.6	2025.9	1909.7	1798.2	1747.1	1730.1
15°	2660.9	2656.3	2636.2	2575.8	2453.4	2312.5	2182.3	2033.7	1897.4	1830.8	1807.5
17.5°	2942.8	2942.8	2911.9	2822.0	2685.7	2510.7	2349.6	2160.7	2001.1	1919.0	1891.2
20°	3229.4	3227.8	3189.1	3080.7	2919.6	2718.3	2513.8	2306.3	2108.0	2008.9	1974.8
22.5°	3531.4	3528.3	3480.3	3356.4	3164.3	2936.6	2698.1	2450.3	2225.7	2106.5	2063.1
25°	3878.4	3873.7	3814.9	3663.1	3435.4	3178.3	2905.7	2619.1	2360.5	2214.9	2163.8
27.5°	4247.0	4240.8	4171.1	3994.5	3745.2	3435.4	3134.9	2814.3	2509.2	2335.7	2278.4
30°	4575.3	4570.7	4494.8	4313.6	4027.0	3690.9	3353.3	3009.4	2665.6	2464.2	2393.0
32.5°	4823.2	4823.2	4755.0	4576.9	4279.5	3935.7	3573.2	3193.8	2828.2	2602.1	2518.5
35°	4973.4	4978.1	4919.2	4776.7	4496.4	4166.4	3800.9	3410.6	3001.7	2749.2	2659.4
37.5°	4995.1	5010.6	4976.5	4880.5	4646.6	4358.5	4023.9	3619.7	3181.4	2897.9	2797.2
40°	4894.4	4905.3	4906.8	4869.6	4708.5	4496.4	4220.7	3841.2	3371.9	3054.4	2938.2
42.5°	4693.1	4700.8	4714.7	4725.6	4663.6	4556.8	4370.9	4047.2	3574.8	3213.9	3077.6
45°	4432.8	4431.3	4454.5	4501.0	4497.9	4522.7	4454.5	4234.6	3785.4	3395.1	3232.5
47.5°	4044.1	4036.3	4118.4	4223.8	4276.4	4392.6	4456.1	4381.7	4014.7	3594.9	3409.1
50°	3435.4	3427.6	3607.3	3855.1	4010.0	4186.6	4370.9	4470.0	4254.7	3819.5	3601.1
52.5°	2695.0	2687.3	2915.0	3348.6	3686.3	3943.4	4199.0	4490.2	4482.4	4070.4	3818.0
55°	2004.2	1998.0	2219.5	2688.8	3235.6	3661.5	3988.3	4437.5	4696.2	4358.5	4081.3
57.5°	1412.6	1409.5	1601.5	1990.3	2656.3	3317.7	3785.4	4335.3	4892.9	4671.4	4378.6
60°	991.3	986.6	1126.0	1426.5	2008.9	2798.8	3584.1	4199.0	5040.0	4979.6	4694.6
62.5°	667.6	664.5	763.6	1014.5	1426.5	2154.5	3278.9	4107.6	5123.6	5289.4	5013.7
65°	506.5	504.9	549.8	687.7	1009.9	1547.3	2794.2	4096.7	5134.5	5521.7	5284.7
67.5°	408.9	410.4	435.2	514.2	698.5	1099.7	2166.9	4028.6	5077.2	5600.7	5416.4
70°	334.6	334.6	345.4	398.1	515.8	741.9	1513.2	3718.8	4917.6	5394.7	5259.9
72.5°	255.6	257.1	291.2	322.2	388.8	520.4	969.6	3077.6	4541.3	4756.6	4654.3
75°	202.9	201.4	221.5	264.9	302.0	371.7	594.8	2207.1	3864.4	3717.3	3652.2
77.5°	145.6	144.0	159.5	196.7	229.2	263.3	354.7	1113.6	2101.8	1931.4	1883.4
80°	99.1	96.0	110.0	136.3	151.8	154.9	173.5	427.5	916.9	864.3	853.4
82.5°	51.1	51.1	58.9	77.4	79.0	80.5	77.4	137.8	303.6	283.4	271.1
85°	20.1	20.1	21.7	26.3	26.3	27.9	27.9	35.6	32.5	31.0	29.4
87.5°	1.5	1.5	3.1	3.1	4.6	4.6	4.6	6.2	7.7	7.7	7.7
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°	1533.4	1533.4	1533.4	1533.4	1533.4	1533.4	1533.4	1533.4	1533.4	1533.4	1533.4
2.5°	1545.8	1539.6	1519.4	1514.8	1511.7	1507.0	1508.6	1497.8	1493.1	1494.7	1488.5
5°	1573.6	1562.8	1538.0	1527.2	1524.1	1519.4	1524.1	1516.3	1508.6	1511.7	1508.6
7.5°	1612.4	1596.9	1565.9	1555.1	1553.5	1548.9	1555.1	1548.9	1542.7	1545.8	1539.6
10°	1652.6	1632.5	1598.4	1587.6	1587.6	1586.0	1592.2	1582.9	1576.7	1578.3	1575.2
12.5°	1711.5	1685.2	1648.0	1638.7	1634.1	1638.7	1640.2	1627.9	1617.0	1618.6	1613.9
15°	1782.7	1753.3	1713.0	1699.1	1696.0	1694.5	1688.3	1672.8	1658.8	1657.3	1652.6
17.5°	1860.2	1823.0	1775.0	1761.1	1747.1	1742.5	1727.0	1706.8	1685.2	1685.2	1679.0
20°	1934.5	1892.7	1835.4	1815.3	1795.1	1776.5	1750.2	1717.7	1689.8	1685.2	1679.0
22.5°	2015.1	1965.5	1898.9	1869.5	1833.9	1796.7	1751.8	1708.4	1672.8	1665.0	1660.4
25°	2104.9	2043.0	1964.0	1920.6	1863.3	1806.0	1739.4	1683.6	1641.8	1629.4	1626.3
27.5°	2204.0	2129.7	2033.7	1970.2	1886.5	1796.7	1711.5	1644.9	1593.8	1578.3	1573.6
30°	2304.7	2216.4	2097.2	2004.2	1886.5	1767.3	1660.4	1582.9	1524.1	1502.4	1499.3
32.5°	2405.4	2306.3	2154.5	2022.8	1867.9	1717.7	1593.8	1502.4	1435.8	1409.5	1415.7
35°	2526.2	2405.4	2207.1	2030.6	1837.0	1657.3	1517.9	1411.0	1342.9	1319.6	1324.3
37.5°	2651.7	2504.5	2249.0	2024.4	1793.6	1589.1	1432.7	1328.9	1243.7	1203.5	1208.1
40°	2760.1	2594.3	2278.4	2002.7	1737.8	1511.7	1349.1	1212.8	1095.0	1056.3	1051.7
42.5°	2862.3	2660.9	2293.9	1970.2	1674.3	1421.9	1229.8	1054.8	937.1	889.0	890.6
45°	2969.2	2726.0	2287.7	1926.8	1595.3	1316.5	1076.5	899.9	796.1	752.7	754.3
47.5°	3091.5	2795.7	2281.5	1880.3	1499.3	1180.2	929.3	763.6	673.8	642.8	639.7
50°	3221.6	2873.1	2273.7	1823.0	1392.4	1028.4	783.7	636.6	560.7	540.6	535.9
52.5°	3368.8	2956.8	2269.1	1754.9	1263.9	867.4	653.6	525.1	474.0	460.0	458.5
55°	3545.4	3054.4	2275.3	1672.8	1109.0	715.6	543.7	452.3	418.2	410.4	408.9
57.5°	3760.6	3179.8	2293.9	1576.7	946.4	583.9	463.1	407.4	385.7	379.5	379.5
60°	3994.5	3322.3	2327.9	1468.3	783.7	481.7	410.4	371.7	362.4	370.2	370.2
62.5°	4247.0	3489.6	2388.3	1336.7	631.9	407.4	368.6	342.3	336.1	351.6	353.1
65°	4480.9	3652.2	2427.1	1178.7	501.8	353.1	336.1	312.9	316.0	331.5	329.9
67.5°	4624.9	3787.0	2372.9	980.4	398.1	312.9	302.0	281.9	289.6	302.0	303.6
70°	4536.6	3711.1	2104.9	740.4	311.3	272.6	264.9	252.5	258.7	274.1	280.3
72.5°	4104.5	3323.9	1637.1	500.3	250.9	229.2	232.3	226.1	233.9	247.8	261.8
75°	3331.6	2512.3	1098.1	320.6	198.3	195.2	199.8	195.2	198.3	212.2	219.9
77.5°	1739.4	1225.2	546.7	199.8	147.1	151.8	159.5	161.1	170.4	173.5	176.6
80°	811.6	551.4	227.7	111.5	97.6	106.9	122.4	123.9	127.0	131.7	133.2
82.5°	264.9	165.7	105.3	60.4	55.8	60.4	79.0	94.5	96.0	105.3	105.3
85°	27.9	17.0	23.2	24.8	21.7	26.3	35.6	34.1	15.5	9.3	9.3
87.5°	7.7	6.2	7.7	7.7	6.2	6.2	4.6	1.5	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)