

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: P799219

Luminaire Tested: **ARCH2-100-722-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799219
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: ARCH2-100-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11118 lumens
Efficiency: N/A
Efficacy: 107.6 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

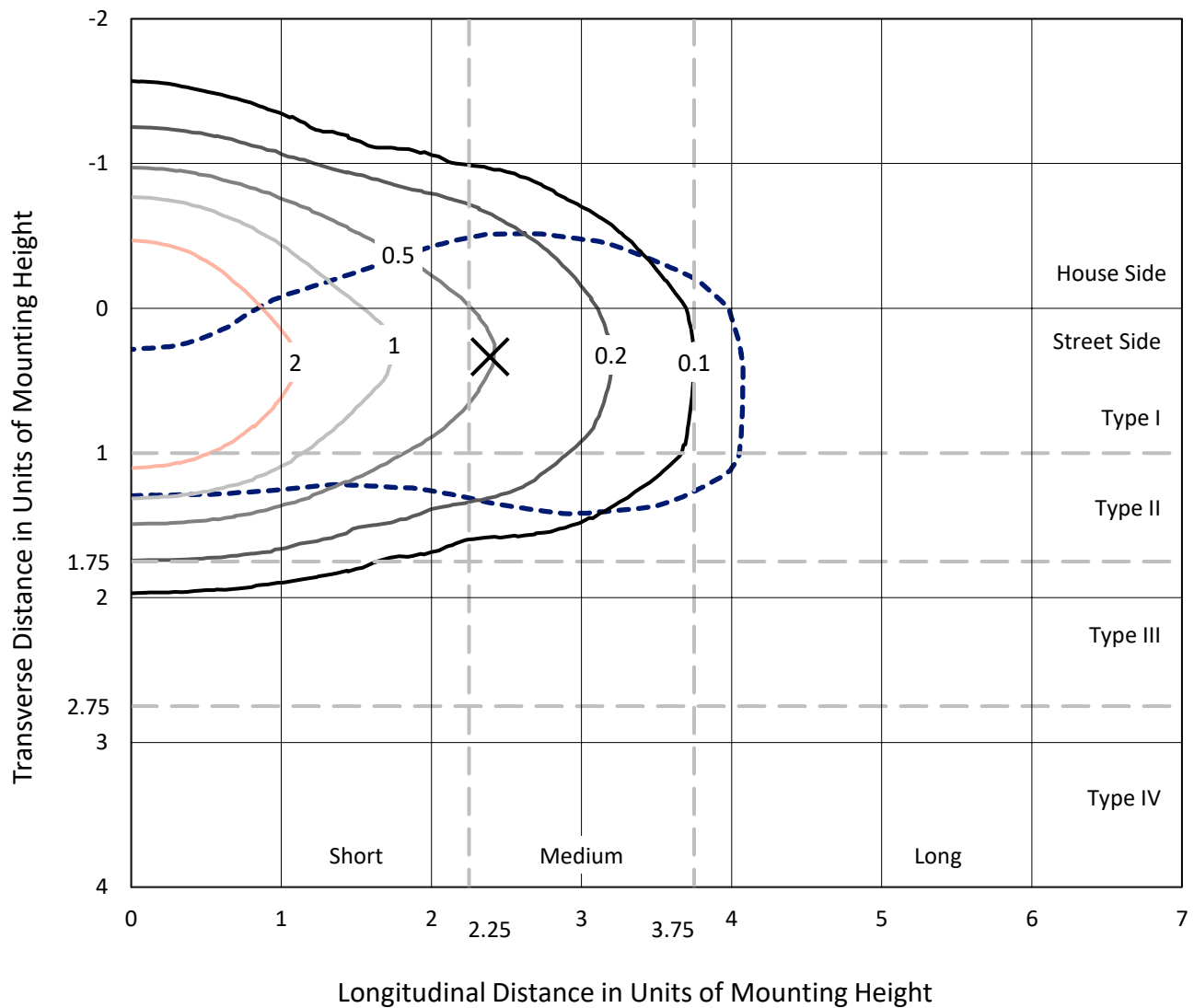


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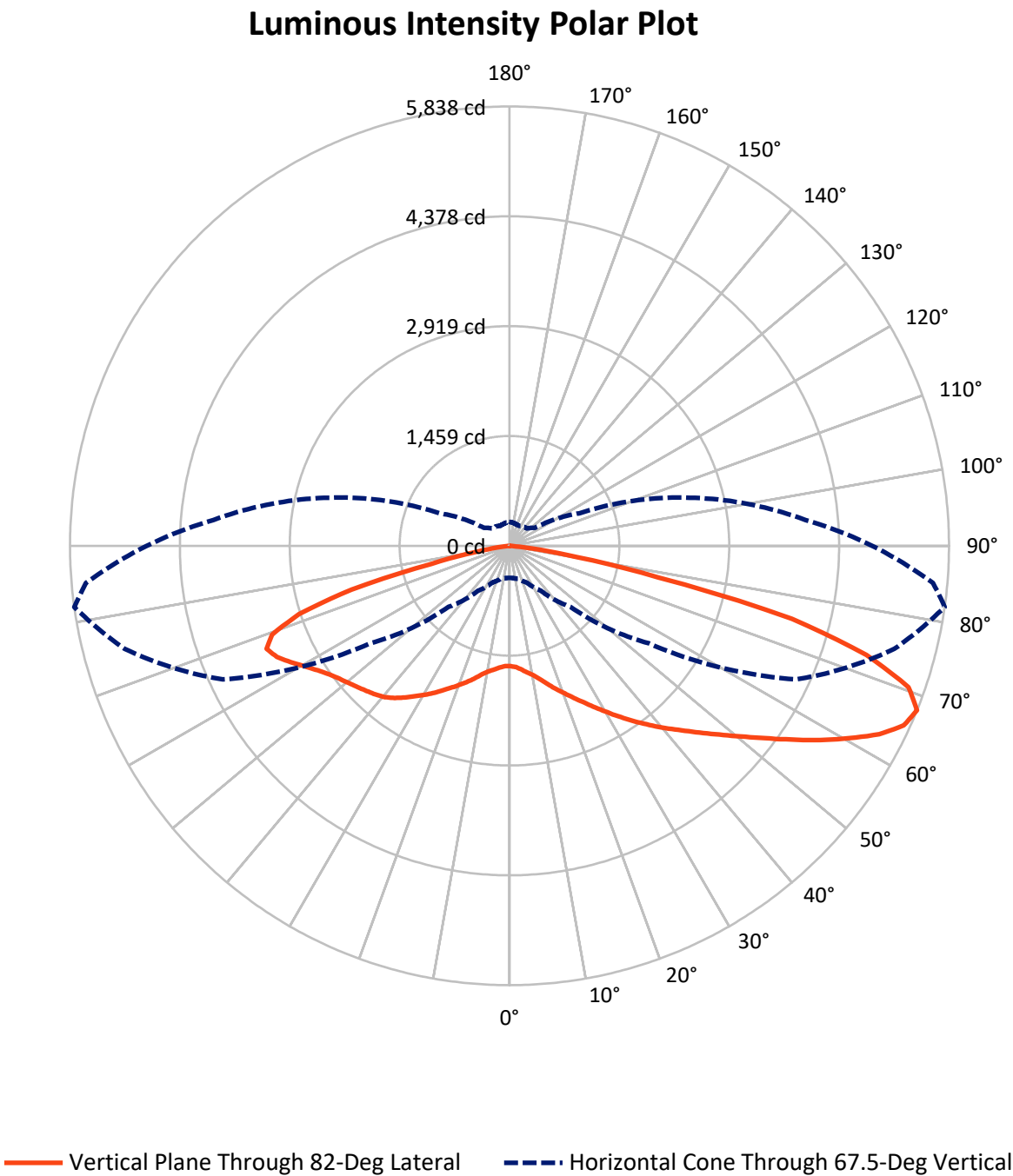
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type II - Medium - N/A

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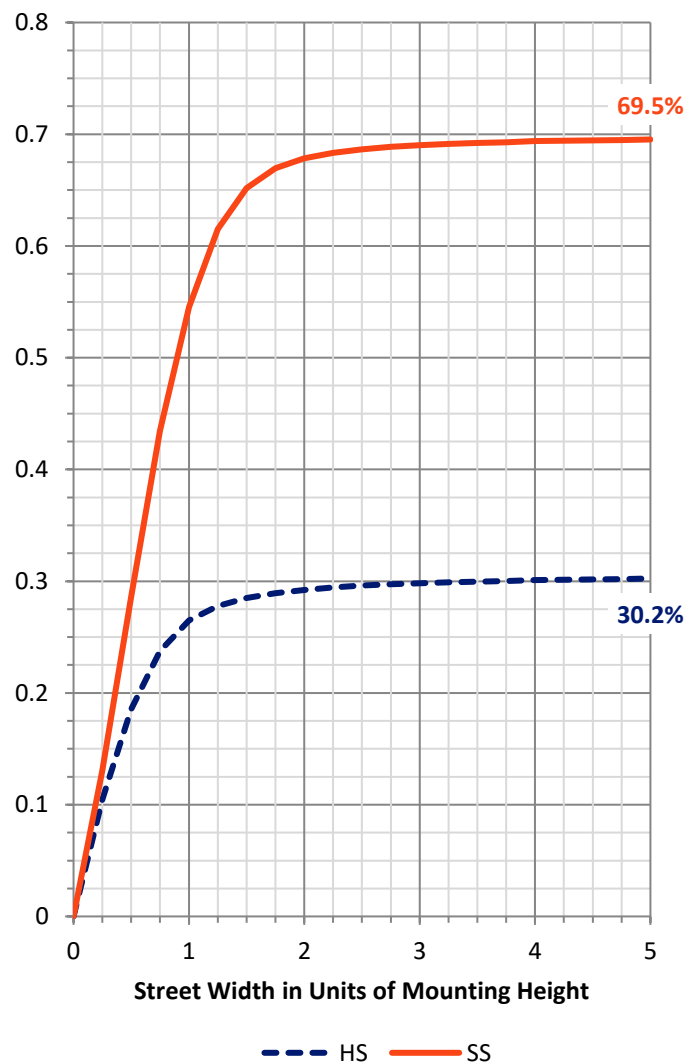
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3385.9	0.0	3385.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7732.1	0.0	7732.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	11118.0	0.0	11118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	1.5
10°-20°	594.9	5.4
20°-30°	1195.7	10.8
30°-40°	1878.3	16.9
40°-50°	2288.1	20.6
50°-60°	2162.0	19.4
60°-70°	1785.3	16.1
70°-80°	972.2	8.7
80°-90°	76.4	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°	11118.0	100.0
0°-180°	11118.0	100.0

Coefficient of Utilization



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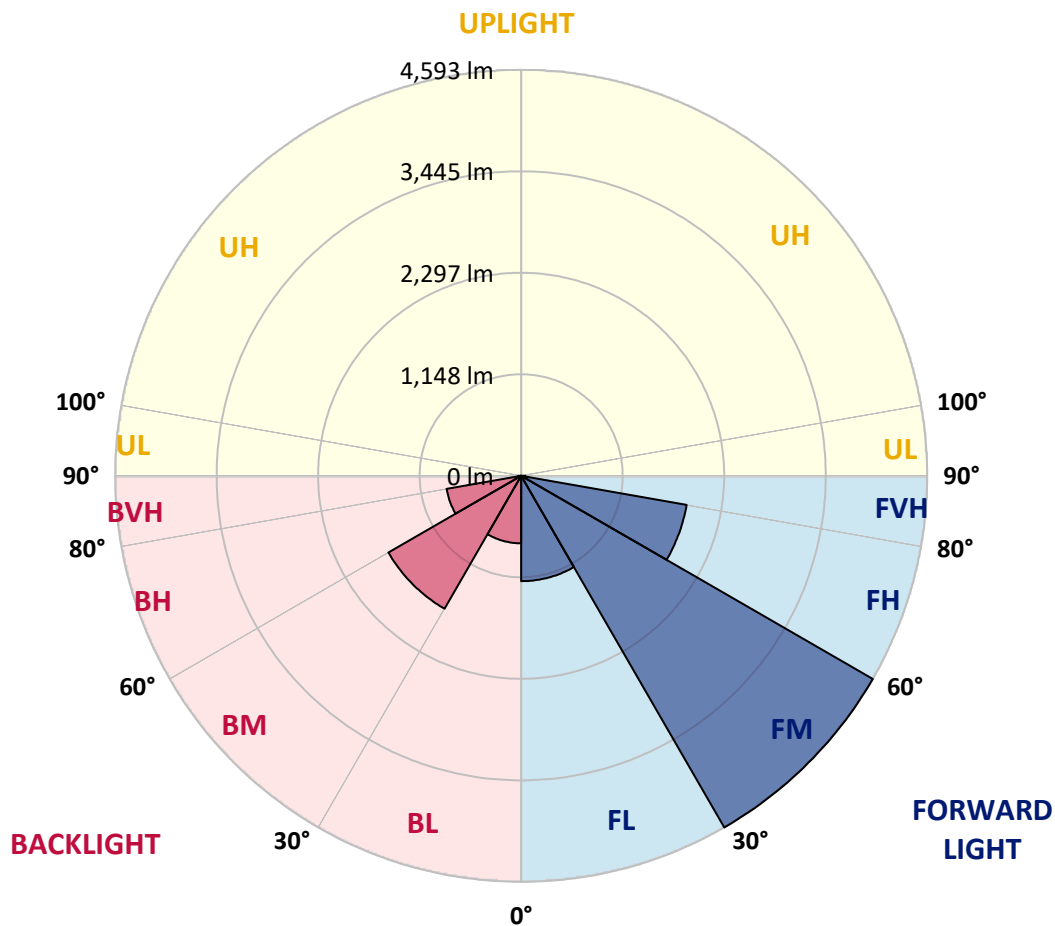
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1192.3	10.7			
FM	(30°-60°)	4593.3	41.3			
FH	(60°-80°)	1900.5	17.1			G2/5000
FVH	(80°-90°)	46.1	0.4			G1/100
BL	(0°-30°)	763.5	6.9	B2/1000		
BM	(30°-60°)	1735.0	15.6	B2/2500		
BH	(60°-80°)	857.0	7.7	B2/1000		G2/1000
BVH	(80°-90°)	30.4	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°	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2
2.5°	1670.9	1670.9	1683.8	1683.8	1672.5	1654.7	1649.9	1630.5	1612.7	1612.7	1614.4
5°	1830.7	1829.1	1838.7	1825.8	1798.4	1762.9	1738.7	1696.7	1661.2	1649.9	1648.3
7.5°	2026.0	2024.4	2029.2	2008.3	1956.6	1898.5	1850.0	1782.2	1724.1	1699.9	1693.5
10°	2243.9	2242.3	2237.5	2202.0	2132.6	2042.2	1969.5	1875.9	1788.7	1750.0	1741.9
12.5°	2494.2	2490.9	2479.6	2428.0	2332.7	2216.5	2111.6	1990.5	1874.3	1821.0	1803.2
15°	2773.5	2768.6	2747.6	2684.7	2557.1	2410.2	2274.6	2119.6	1977.6	1908.2	1883.9
17.5°	3067.3	3067.3	3035.0	2941.3	2799.3	2616.9	2449.0	2252.0	2085.7	2000.2	1971.1
20°	3365.9	3364.3	3323.9	3210.9	3043.1	2833.2	2620.1	2403.8	2197.1	2093.8	2058.3
22.5°	3680.7	3677.5	3627.4	3498.3	3298.1	3060.8	2812.2	2553.9	2319.8	2195.5	2150.3
25°	4042.3	4037.5	3976.1	3817.9	3580.6	3312.6	3028.5	2729.9	2460.3	2308.5	2255.2
27.5°	4426.5	4420.1	4347.4	4163.4	3903.5	3580.6	3267.4	2933.3	2615.2	2434.4	2374.7
30°	4768.8	4763.9	4684.8	4496.0	4197.3	3847.0	3495.1	3136.7	2778.3	2568.4	2494.2
32.5°	5027.1	5027.1	4956.1	4770.4	4460.4	4102.1	3724.3	3328.8	2947.8	2712.1	2624.9
35°	5183.7	5188.5	5127.2	4978.7	4686.5	4342.6	3961.6	3554.8	3128.6	2865.5	2771.8
37.5°	5206.3	5222.4	5186.9	5086.8	4843.1	4542.8	4194.1	3772.7	3315.9	3020.4	2915.5
40°	5101.3	5112.6	5114.3	5075.5	4907.6	4686.5	4399.1	4003.6	3514.4	3183.5	3062.4
42.5°	4891.5	4899.6	4914.1	4925.4	4860.8	4749.4	4555.7	4218.3	3725.9	3349.8	3207.7
45°	4620.3	4618.7	4642.9	4691.3	4688.1	4713.9	4642.9	4413.6	3945.5	3538.7	3369.1
47.5°	4215.1	4207.0	4292.6	4402.3	4457.2	4578.3	4644.5	4567.0	4184.4	3746.9	3553.2
50°	3580.6	3572.6	3759.8	4018.1	4179.6	4363.6	4555.7	4659.0	4434.6	3981.0	3753.4
52.5°	2809.0	2800.9	3038.2	3490.2	3842.2	4110.1	4376.5	4680.0	4671.9	4242.5	3979.4
55°	2089.0	2082.5	2313.4	2802.5	3372.4	3816.3	4157.0	4625.1	4894.7	4542.8	4253.8
57.5°	1472.3	1469.1	1669.2	2074.4	2768.6	3457.9	3945.5	4518.6	5099.7	4868.9	4563.8
60°	1033.2	1028.3	1173.6	1486.8	2093.8	2917.1	3735.6	4376.5	5253.1	5190.1	4893.1
62.5°	695.8	692.6	795.9	1057.4	1486.8	2245.6	3417.6	4281.3	5340.3	5513.0	5225.7
65°	527.9	526.3	573.1	716.8	1052.6	1612.7	2912.3	4270.0	5351.6	5755.2	5508.2
67.5°	426.2	427.8	453.6	536.0	728.1	1146.2	2258.5	4198.9	5291.8	5837.5	5645.4
70°	348.7	348.7	360.0	414.9	537.6	773.3	1577.2	3876.1	5125.6	5622.8	5482.3
72.5°	266.4	268.0	303.5	335.8	405.2	542.4	1010.6	3207.7	4733.3	4957.7	4851.1
75°	211.5	209.9	230.9	276.1	314.8	387.4	619.9	2300.4	4027.8	3874.4	3806.6
77.5°	151.7	150.1	166.3	205.0	238.9	274.4	369.7	1160.7	2190.7	2013.1	1963.0
80°	103.3	100.1	114.6	142.1	158.2	161.4	180.8	445.6	955.7	900.8	889.5
82.5°	53.3	53.3	61.3	80.7	82.3	83.9	80.7	143.7	316.4	295.4	282.5
85°	21.0	21.0	22.6	27.4	27.4	29.1	29.1	37.1	33.9	32.3	30.7
87.5°	1.6	1.6	3.2	3.2	4.8	4.8	4.8	6.5	8.1	8.1	8.1
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°	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2
2.5°	1611.1	1604.7	1583.7	1578.8	1575.6	1570.8	1572.4	1561.1	1556.2	1557.8	1551.4
5°	1640.2	1628.9	1603.0	1591.7	1588.5	1583.7	1588.5	1580.4	1572.4	1575.6	1572.4
7.5°	1680.5	1664.4	1632.1	1620.8	1619.2	1614.4	1620.8	1614.4	1607.9	1611.1	1604.7
10°	1722.5	1701.5	1666.0	1654.7	1654.7	1653.1	1659.6	1649.9	1643.4	1645.0	1641.8
12.5°	1783.9	1756.4	1717.7	1708.0	1703.1	1708.0	1709.6	1696.7	1685.4	1687.0	1682.2
15°	1858.1	1827.4	1785.5	1770.9	1767.7	1766.1	1759.6	1743.5	1729.0	1727.4	1722.5
17.5°	1938.8	1900.1	1850.0	1835.5	1821.0	1816.1	1800.0	1779.0	1756.4	1756.4	1750.0
20°	2016.3	1972.7	1913.0	1892.0	1871.0	1851.7	1824.2	1790.3	1761.3	1756.4	1750.0
22.5°	2100.3	2048.6	1979.2	1948.5	1911.4	1872.6	1825.8	1780.6	1743.5	1735.4	1730.6
25°	2193.9	2129.3	2047.0	2001.8	1942.1	1882.3	1812.9	1754.8	1711.2	1698.3	1695.1
27.5°	2297.2	2219.7	2119.6	2053.5	1966.3	1872.6	1783.9	1714.4	1661.2	1645.0	1640.2
30°	2402.2	2310.1	2185.8	2089.0	1966.3	1842.0	1730.6	1649.9	1588.5	1565.9	1562.7
32.5°	2507.1	2403.8	2245.6	2108.3	1946.9	1790.3	1661.2	1565.9	1496.5	1469.1	1475.5
35°	2633.0	2507.1	2300.4	2116.4	1914.6	1727.4	1582.1	1470.7	1399.6	1375.4	1380.3
37.5°	2763.8	2610.4	2344.0	2110.0	1869.4	1656.3	1493.3	1385.1	1296.3	1254.4	1259.2
40°	2876.8	2704.0	2374.7	2087.4	1811.3	1575.6	1406.1	1264.0	1141.3	1101.0	1096.1
42.5°	2983.3	2773.5	2390.9	2053.5	1745.1	1482.0	1281.8	1099.4	976.7	926.6	928.3
45°	3094.7	2841.3	2384.4	2008.3	1662.8	1372.2	1122.0	937.9	829.8	784.6	786.2
47.5°	3222.2	2913.9	2377.9	1959.8	1562.7	1230.1	968.6	795.9	702.2	670.0	666.7
50°	3357.8	2994.6	2369.9	1900.1	1451.3	1071.9	816.9	663.5	584.4	563.4	558.6
52.5°	3511.2	3081.8	2365.0	1829.1	1317.3	904.0	681.3	547.3	494.0	479.5	477.8
55°	3695.2	3183.5	2371.5	1743.5	1155.9	745.8	566.6	471.4	435.9	427.8	426.2
57.5°	3919.6	3314.3	2390.9	1643.4	986.4	608.6	482.7	424.6	402.0	395.5	395.5
60°	4163.4	3462.8	2426.4	1530.4	816.9	502.1	427.8	387.4	377.8	385.8	385.8
62.5°	4426.5	3637.1	2489.3	1393.2	658.7	424.6	384.2	356.8	350.3	366.5	368.1
65°	4670.3	3806.6	2529.7	1228.5	523.0	368.1	350.3	326.1	329.3	345.5	343.9
67.5°	4820.4	3947.1	2473.2	1021.9	414.9	326.1	314.8	293.8	301.9	314.8	316.4
70°	4728.4	3868.0	2193.9	771.7	324.5	284.1	276.1	263.1	269.6	285.7	292.2
72.5°	4278.0	3464.4	1706.4	521.4	261.5	238.9	242.2	235.7	243.8	258.3	272.8
75°	3472.5	2618.5	1144.6	334.2	206.6	203.4	208.3	203.4	206.6	221.2	229.2
77.5°	1812.9	1277.0	569.9	208.3	153.4	158.2	166.3	167.9	177.6	180.8	184.0
80°	845.9	574.7	237.3	116.2	101.7	111.4	127.5	129.1	132.4	137.2	138.8
82.5°	276.1	172.7	109.8	63.0	58.1	63.0	82.3	98.5	100.1	109.8	109.8
85°	29.1	17.8	24.2	25.8	22.6	27.4	37.1	35.5	16.1	9.7	9.7
87.5°	8.1	6.5	8.1	8.1	6.5	6.5	4.8	1.6	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)