

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: P800243

Luminaire Tested: **ARCH2-90-722-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800243
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: ARCH2-90-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10436 lumens
Efficiency: N/A
Efficacy: 111.4 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

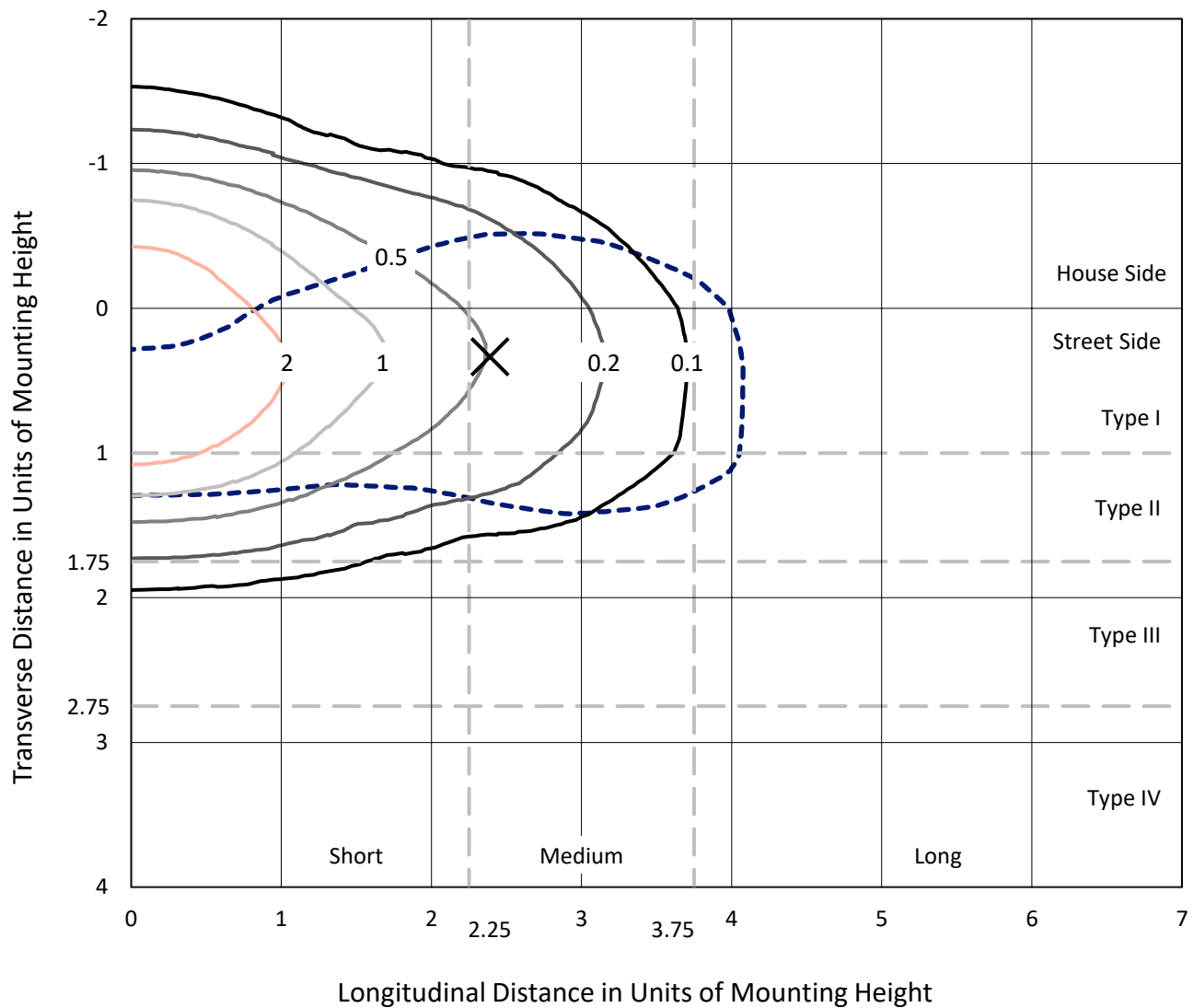


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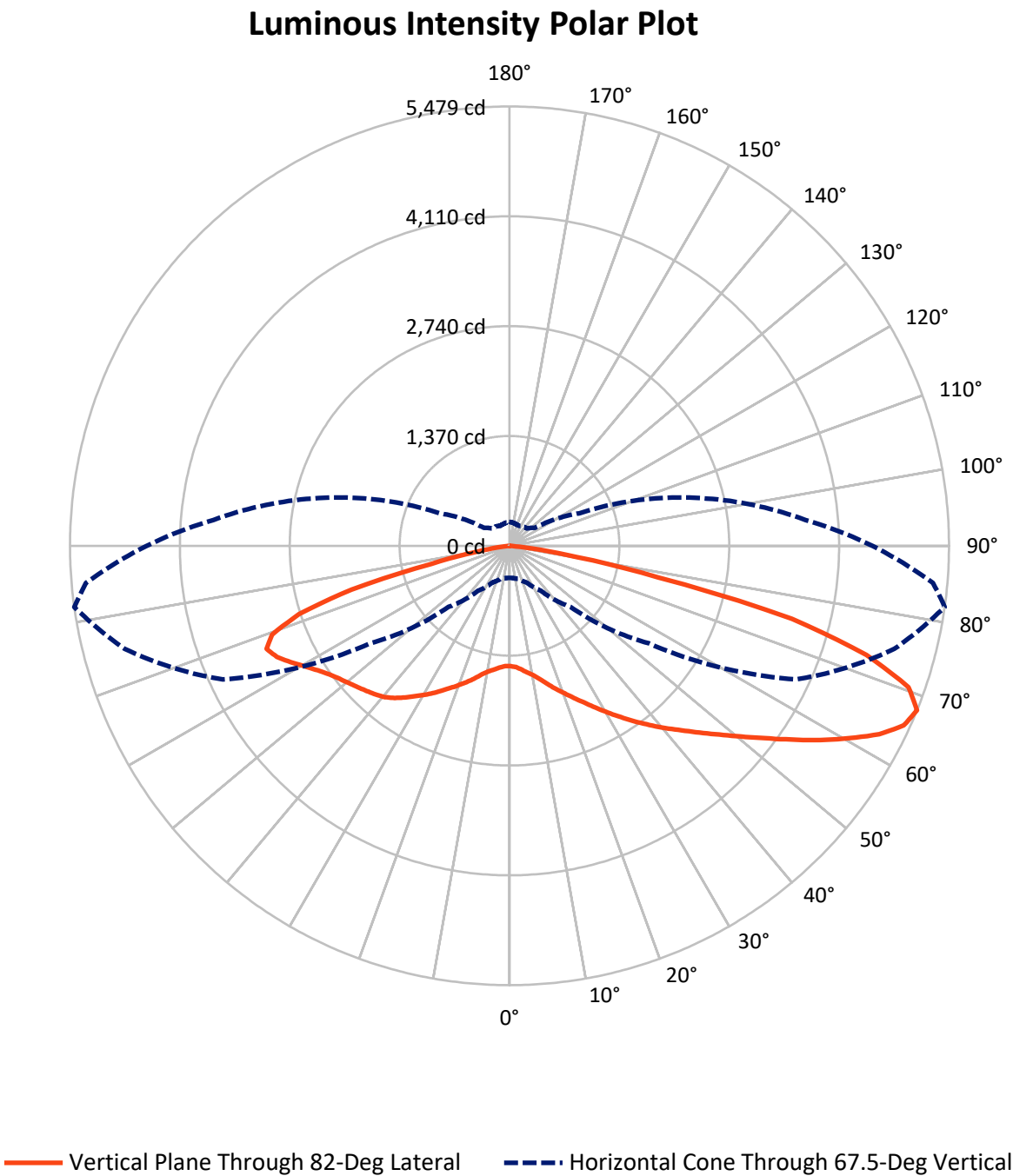
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type II - Medium - N/A

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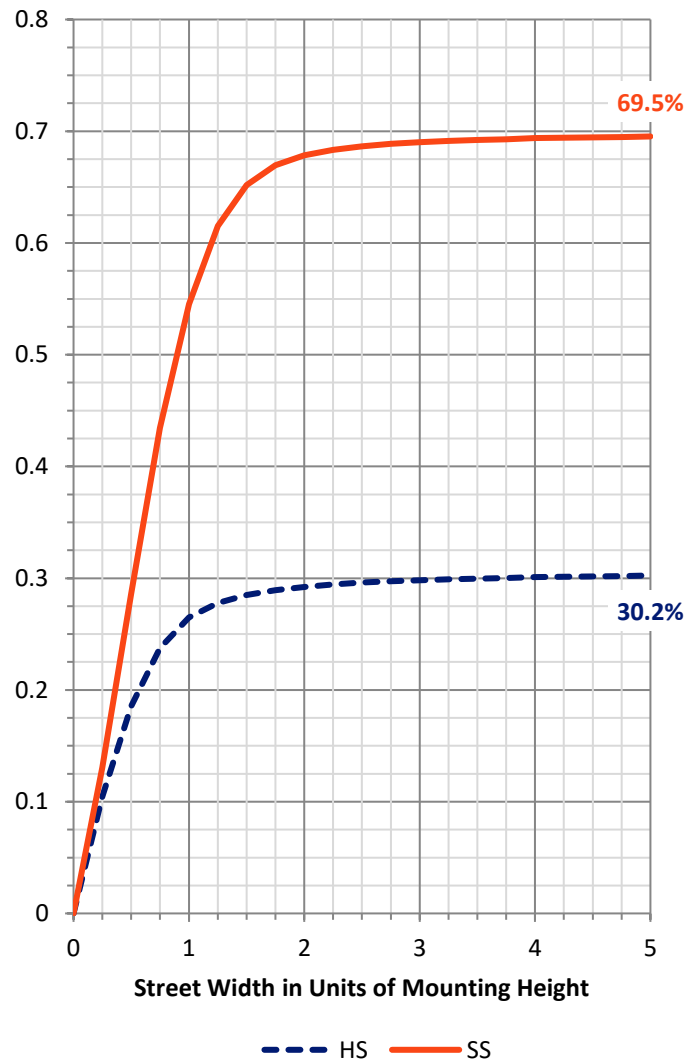
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3178.2	0.0	3178.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7257.8	0.0	7257.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	10436.0	0.0	10436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	1.5
10°-20°	558.4	5.4
20°-30°	1122.3	10.8
30°-40°	1763.0	16.9
40°-50°	2147.7	20.6
50°-60°	2029.3	19.4
60°-70°	1675.8	16.1
70°-80°	912.5	8.7
80°-90°	71.8	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°	10436.0	100.0
0°-180°	10436.0	100.0

Coefficient of Utilization



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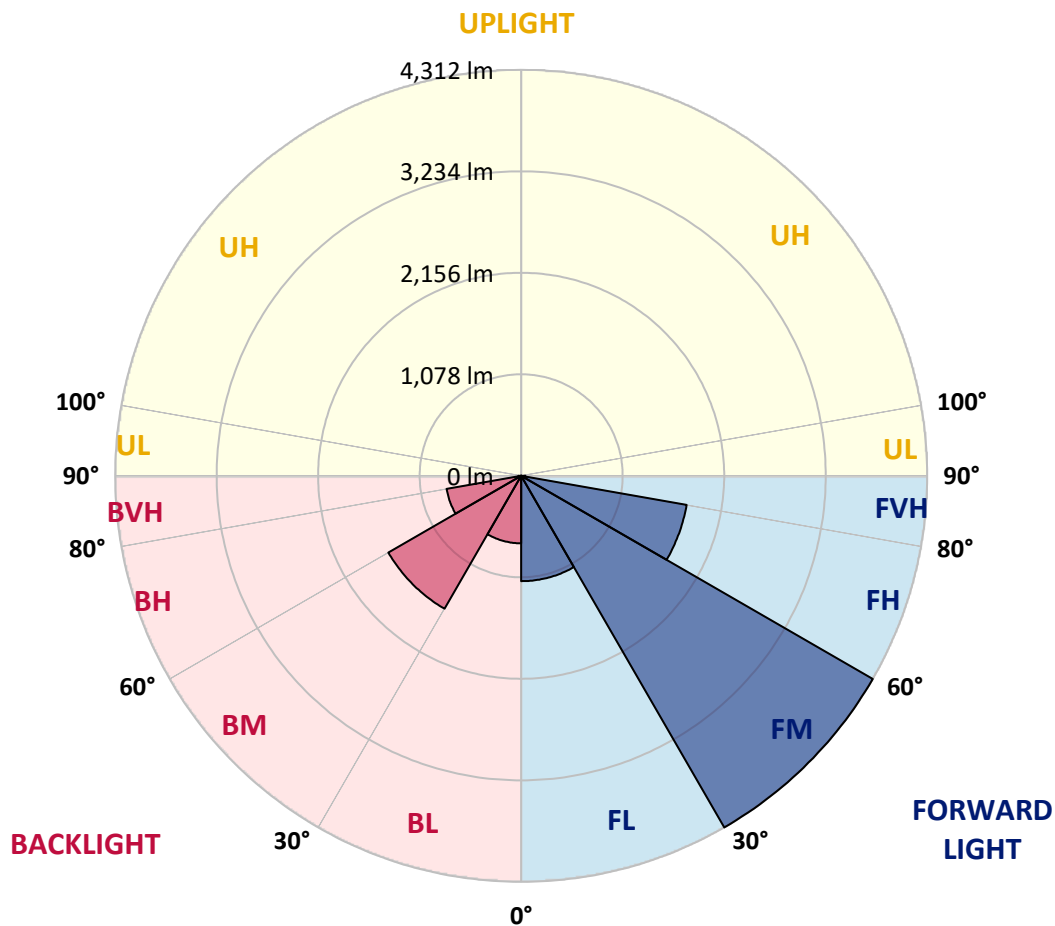
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1119.1	10.7			
FM	(30°-60°)	4311.6	41.3			
FH	(60°-80°)	1783.9	17.1			G1/1800
FVH	(80°-90°)	43.2	0.4			G1/100
BL	(0°-30°)	716.7	6.9	B2/1000		
BM	(30°-60°)	1628.6	15.6	B2/2500		
BH	(60°-80°)	804.4	7.7	B2/1000		G2/1000
BVH	(80°-90°)	28.5	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°	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2
2.5°	1568.4	1568.4	1580.5	1580.5	1569.9	1553.2	1548.7	1530.5	1513.8	1513.8	1515.3
5°	1718.4	1716.9	1726.0	1713.8	1688.1	1654.7	1632.0	1592.6	1559.3	1548.7	1547.1
7.5°	1901.7	1900.2	1904.8	1885.1	1836.6	1782.0	1736.6	1672.9	1618.4	1595.6	1589.6
10°	2106.3	2104.8	2100.2	2066.9	2001.7	1916.9	1848.7	1760.8	1679.0	1642.6	1635.0
12.5°	2341.2	2338.1	2327.5	2279.0	2189.6	2080.5	1982.0	1868.4	1759.3	1709.3	1692.6
15°	2603.3	2598.8	2579.1	2520.0	2400.3	2262.4	2135.1	1989.6	1856.3	1791.1	1768.4
17.5°	2879.1	2879.1	2848.8	2760.9	2627.6	2456.3	2298.7	2113.9	1957.8	1877.5	1850.2
20°	3159.4	3157.9	3120.0	3014.0	2856.4	2659.4	2459.4	2256.3	2062.4	1965.4	1932.0
22.5°	3454.9	3451.9	3404.9	3283.7	3095.8	2873.1	2639.7	2397.2	2177.5	2060.8	2018.4
25°	3794.4	3789.8	3732.2	3583.7	3361.0	3109.4	2842.7	2562.4	2309.4	2166.9	2116.9
27.5°	4155.0	4149.0	4080.8	3908.0	3664.1	3361.0	3067.0	2753.3	2454.8	2285.1	2229.0
30°	4476.3	4471.7	4397.5	4220.2	3939.8	3611.0	3280.7	2944.3	2607.9	2410.9	2341.2
32.5°	4718.7	4718.7	4652.0	4477.8	4186.8	3850.4	3495.8	3124.6	2767.0	2545.7	2463.9
35°	4865.7	4870.2	4812.7	4673.3	4399.0	4076.2	3718.6	3336.7	2936.7	2689.7	2601.8
37.5°	4886.9	4902.1	4868.7	4774.8	4546.0	4264.1	3936.8	3541.3	3112.5	2835.2	2736.7
40°	4788.4	4799.0	4800.5	4764.2	4606.6	4399.0	4129.3	3758.0	3298.9	2988.2	2874.6
42.5°	4591.4	4599.0	4612.6	4623.2	4562.6	4458.1	4276.2	3959.5	3497.4	3144.3	3010.9
45°	4336.9	4335.3	4358.1	4403.5	4400.5	4424.7	4358.1	4142.9	3703.4	3321.6	3162.5
47.5°	3956.5	3948.9	4029.2	4132.3	4183.8	4297.5	4359.6	4286.8	3927.7	3517.1	3335.2
50°	3361.0	3353.4	3529.2	3771.6	3923.2	4095.9	4276.2	4373.2	4162.6	3736.8	3523.1
52.5°	2636.7	2629.1	2851.8	3276.1	3606.5	3858.0	4108.0	4392.9	4385.3	3982.3	3735.3
55°	1960.8	1954.8	2171.5	2630.6	3165.5	3582.2	3902.0	4341.4	4594.5	4264.1	3992.9
57.5°	1382.0	1378.9	1566.8	1947.2	2598.8	3245.8	3703.4	4241.4	4786.9	4570.2	4283.8
60°	969.8	965.3	1101.6	1395.6	1965.4	2738.2	3506.5	4108.0	4930.9	4871.8	4592.9
62.5°	653.1	650.1	747.1	992.5	1395.6	2107.8	3207.9	4018.6	5012.7	5174.8	4905.1
65°	495.5	494.0	537.9	672.8	988.0	1513.8	2733.6	4008.0	5023.3	5402.1	5170.3
67.5°	400.0	401.6	425.8	503.1	683.4	1075.9	2119.9	3941.4	4967.2	5479.4	5299.1
70°	327.3	327.3	337.9	389.4	504.6	725.8	1480.5	3638.3	4811.1	5277.9	5146.0
72.5°	250.0	251.5	284.9	315.2	380.3	509.1	948.6	3010.9	4442.9	4653.6	4553.5
75°	198.5	197.0	216.7	259.1	295.5	363.7	581.9	2159.3	3780.7	3636.8	3573.1
77.5°	142.4	140.9	156.1	192.4	224.3	257.6	347.0	1089.5	2056.3	1889.6	1842.6
80°	97.0	94.0	107.6	133.3	148.5	151.5	169.7	418.2	897.1	845.6	834.9
82.5°	50.0	50.0	57.6	75.8	77.3	78.8	75.8	134.9	297.0	277.3	265.2
85°	19.7	19.7	21.2	25.8	25.8	27.3	27.3	34.9	31.8	30.3	28.8
87.5°	1.5	1.5	3.0	3.0	4.5	4.5	4.5	6.1	7.6	7.6	7.6
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°	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2
2.5°	1512.3	1506.2	1486.5	1482.0	1479.0	1474.4	1475.9	1465.3	1460.8	1462.3	1456.2
5°	1539.6	1529.0	1504.7	1494.1	1491.1	1486.5	1491.1	1483.5	1475.9	1479.0	1475.9
7.5°	1577.5	1562.3	1532.0	1521.4	1519.9	1515.3	1521.4	1515.3	1509.3	1512.3	1506.2
10°	1616.8	1597.2	1563.8	1553.2	1553.2	1551.7	1557.8	1548.7	1542.6	1544.1	1541.1
12.5°	1674.4	1648.7	1612.3	1603.2	1598.7	1603.2	1604.7	1592.6	1582.0	1583.5	1579.0
15°	1744.1	1715.3	1675.9	1662.3	1659.3	1657.8	1651.7	1636.5	1622.9	1621.4	1616.8
17.5°	1819.9	1783.5	1736.6	1722.9	1709.3	1704.7	1689.6	1669.9	1648.7	1648.7	1642.6
20°	1892.6	1851.7	1795.7	1776.0	1756.3	1738.1	1712.3	1680.5	1653.2	1648.7	1642.6
22.5°	1971.4	1922.9	1857.8	1829.0	1794.1	1757.8	1713.8	1671.4	1636.5	1629.0	1624.4
25°	2059.3	1998.7	1921.4	1879.0	1822.9	1766.9	1701.7	1647.2	1606.2	1594.1	1591.1
27.5°	2156.3	2083.6	1989.6	1927.5	1845.7	1757.8	1674.4	1609.3	1559.3	1544.1	1539.6
30°	2254.8	2168.4	2051.7	1960.8	1845.7	1729.0	1624.4	1548.7	1491.1	1469.9	1466.8
32.5°	2353.3	2256.3	2107.8	1979.0	1827.5	1680.5	1559.3	1469.9	1404.7	1378.9	1385.0
35°	2471.5	2353.3	2159.3	1986.6	1797.2	1621.4	1485.0	1380.5	1313.8	1291.1	1295.6
37.5°	2594.2	2450.3	2200.2	1980.5	1754.7	1554.7	1401.7	1300.1	1216.8	1177.4	1182.0
40°	2700.3	2538.2	2229.0	1959.3	1700.2	1479.0	1319.8	1186.5	1071.3	1033.5	1028.9
42.5°	2800.3	2603.3	2244.2	1927.5	1638.1	1391.1	1203.2	1031.9	916.8	869.8	871.3
45°	2904.9	2667.0	2238.1	1885.1	1560.8	1288.0	1053.1	880.4	778.9	736.4	738.0
47.5°	3024.6	2735.2	2232.1	1839.6	1466.8	1154.7	909.2	747.1	659.2	628.9	625.8
50°	3151.9	2810.9	2224.5	1783.5	1362.3	1006.2	766.8	622.8	548.5	528.8	524.3
52.5°	3295.8	2892.8	2219.9	1716.9	1236.5	848.6	639.5	513.7	463.7	450.1	448.5
55°	3468.6	2988.2	2226.0	1636.5	1085.0	700.1	531.9	442.5	409.1	401.6	400.0
57.5°	3679.2	3111.0	2244.2	1542.6	925.9	571.3	453.1	398.5	377.3	371.3	371.3
60°	3908.0	3250.4	2277.5	1436.5	766.8	471.3	401.6	363.7	354.6	362.2	362.2
62.5°	4155.0	3414.0	2336.6	1307.7	618.3	398.5	360.6	334.9	328.8	344.0	345.5
65°	4383.8	3573.1	2374.5	1153.2	491.0	345.5	328.8	306.1	309.1	324.3	322.8
67.5°	4524.8	3705.0	2321.5	959.2	389.4	306.1	295.5	275.8	283.4	295.5	297.0
70°	4438.4	3630.7	2059.3	724.3	304.6	266.7	259.1	247.0	253.1	268.2	274.3
72.5°	4015.6	3251.9	1601.7	489.4	245.5	224.3	227.3	221.2	228.8	242.5	256.1
75°	3259.5	2457.9	1074.4	313.7	194.0	190.9	195.5	190.9	194.0	207.6	215.2
77.5°	1701.7	1198.6	534.9	195.5	144.0	148.5	156.1	157.6	166.7	169.7	172.7
80°	794.0	539.5	222.8	109.1	95.5	104.6	119.7	121.2	124.3	128.8	130.3
82.5°	259.1	162.1	103.0	59.1	54.6	59.1	77.3	92.4	94.0	103.0	103.0
85°	27.3	16.7	22.7	24.2	21.2	25.8	34.9	33.3	15.2	9.1	9.1
87.5°	7.6	6.1	7.6	7.6	6.1	6.1	4.5	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)