

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: P800051

Luminaire Tested: **ARCH2-70-740-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800051
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: ARCH2-70-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10512 lumens
Efficiency: N/A
Efficacy: 142.8 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): 73.6
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



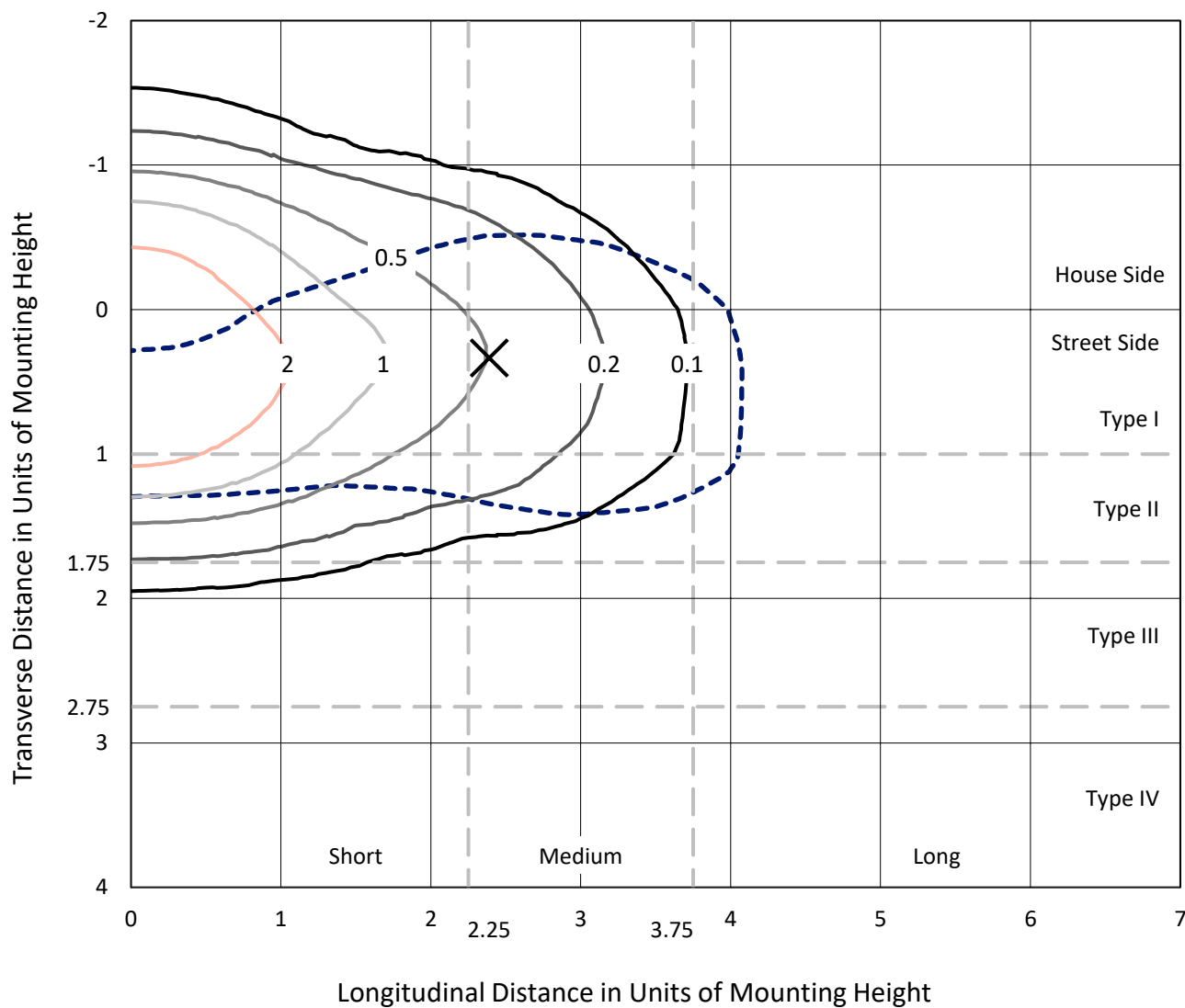
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Iso-Footcandle Lines of Horizontal Illumination

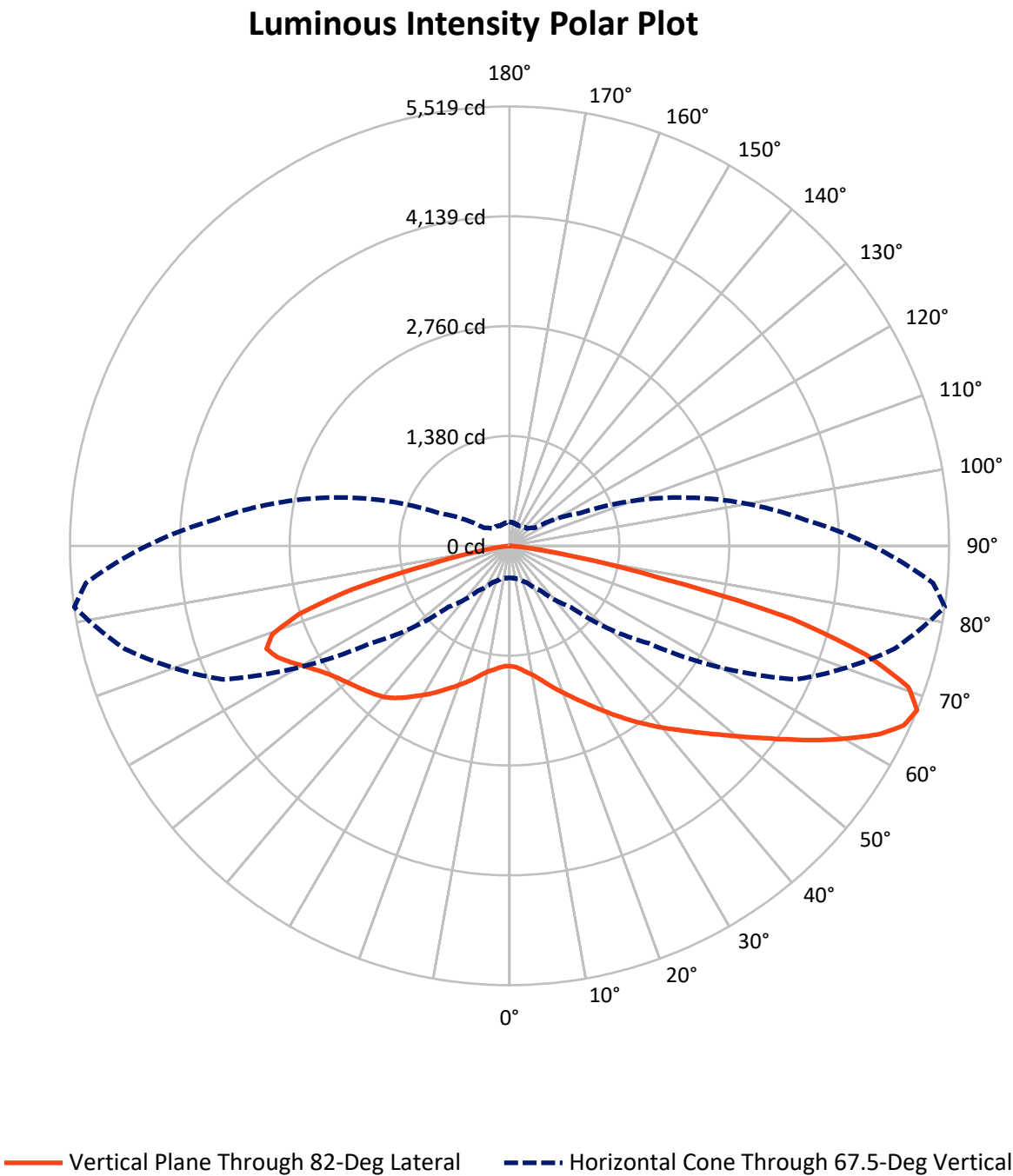
✕ Max cd

--- 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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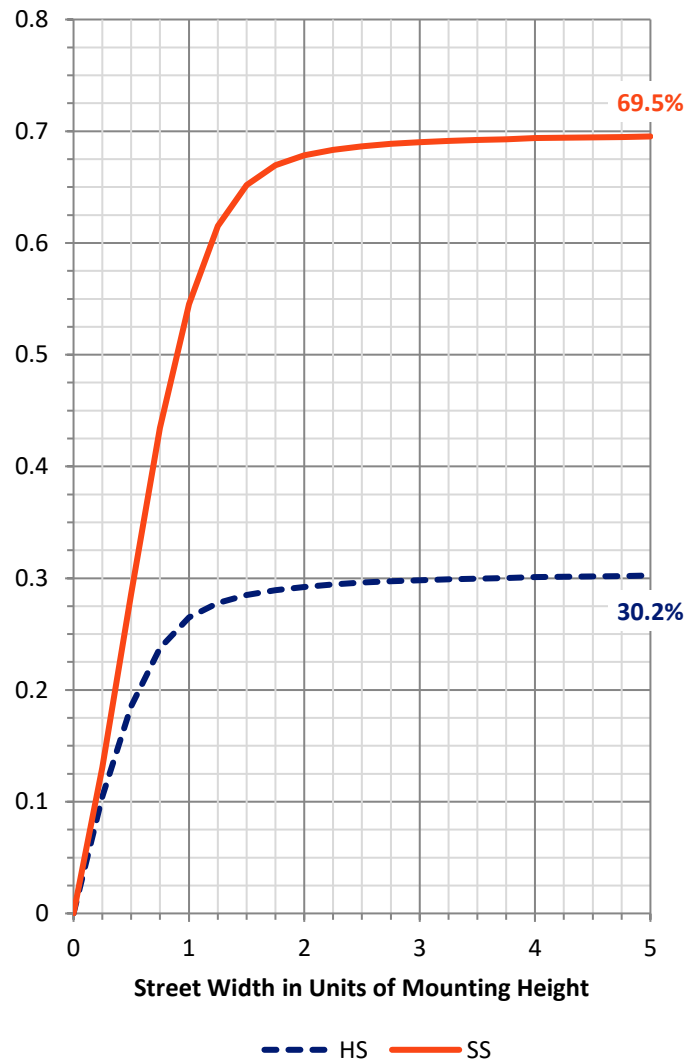
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3201.3	0.0	3201.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7310.7	0.0	7310.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	10512.0	0.0	10512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	1.5
10°-20°	562.5	5.4
20°-30°	1130.5	10.8
30°-40°	1775.9	16.9
40°-50°	2163.4	20.6
50°-60°	2044.1	19.4
60°-70°	1688.0	16.1
70°-80°	919.2	8.7
80°-90°	72.3	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°	10512.0	100.0
0°-180°	10512.0	100.0

Coefficient of Utilization



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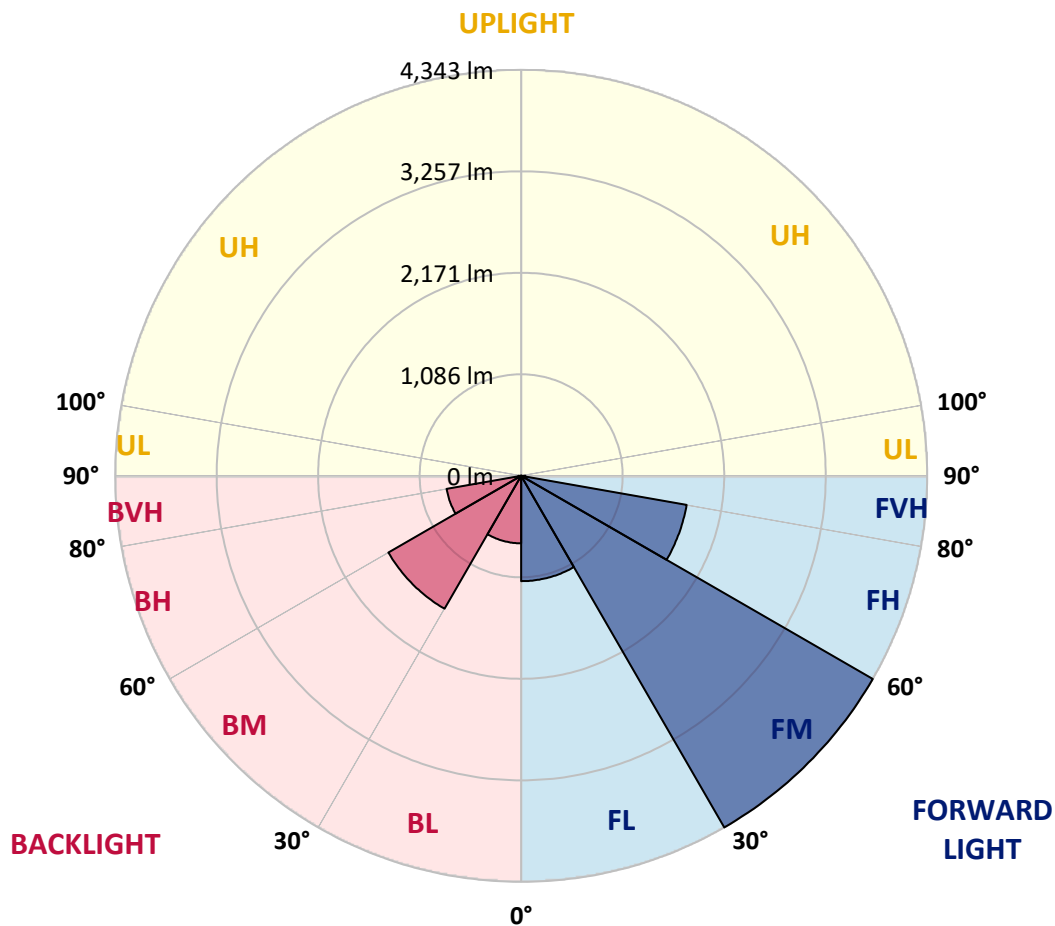
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1127.3	10.7			
FM	(30°-60°)	4343.0	41.3			
FH	(60°-80°)	1796.9	17.1			G1/1800
FVH	(80°-90°)	43.6	0.4			G1/100
BL	(0°-30°)	721.9	6.9	B2/1000		
BM	(30°-60°)	1640.4	15.6	B2/2500		
BH	(60°-80°)	810.3	7.7	B2/1000		G2/1000
BVH	(80°-90°)	28.7	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°	1511.1	1511.1	1511.1	1511.1	1511.1	1511.1	1511.1	1511.1	1511.1	1511.1	1511.1
2.5°	1579.8	1579.8	1592.0	1592.0	1581.3	1564.5	1559.9	1541.6	1524.8	1524.8	1526.4
5°	1730.9	1729.4	1738.5	1726.3	1700.4	1666.8	1643.9	1604.2	1570.6	1559.9	1558.4
7.5°	1915.6	1914.1	1918.6	1898.8	1849.9	1795.0	1749.2	1685.1	1630.2	1607.3	1601.1
10°	2121.6	2120.1	2115.5	2082.0	2016.3	1930.8	1862.2	1773.6	1691.2	1654.6	1646.9
12.5°	2358.2	2355.2	2344.5	2295.6	2205.6	2095.7	1996.5	1882.0	1772.1	1721.7	1704.9
15°	2622.3	2617.7	2597.9	2538.3	2417.8	2278.9	2150.6	2004.1	1869.8	1804.2	1781.3
17.5°	2900.1	2900.1	2869.6	2781.0	2646.7	2474.2	2315.5	2129.3	1972.1	1891.2	1863.7
20°	3182.5	3180.9	3142.8	3035.9	2877.2	2678.8	2477.3	2272.7	2077.4	1979.7	1946.1
22.5°	3480.1	3477.0	3429.7	3307.6	3118.3	2894.0	2658.9	2414.7	2193.4	2075.8	2033.1
25°	3822.0	3817.4	3759.4	3609.8	3385.5	3132.1	2863.4	2581.1	2326.2	2182.7	2132.3
27.5°	4185.3	4179.2	4110.5	3936.5	3690.7	3385.5	3089.3	2773.4	2472.7	2301.7	2245.3
30°	4508.9	4504.3	4429.5	4250.9	3968.5	3637.3	3304.6	2965.7	2626.9	2428.4	2358.2
32.5°	4753.1	4753.1	4685.9	4510.4	4217.3	3878.5	3521.3	3147.4	2787.1	2564.3	2481.9
35°	4901.1	4905.7	4847.7	4707.3	4431.0	4105.9	3745.7	3361.0	2958.1	2709.3	2620.8
37.5°	4922.5	4937.8	4904.2	4809.6	4579.1	4295.2	3965.5	3567.1	3135.1	2855.8	2756.6
40°	4823.3	4834.0	4835.5	4798.9	4640.1	4431.0	4159.3	3785.4	3322.9	3010.0	2895.5
42.5°	4624.9	4632.5	4646.2	4656.9	4595.9	4490.5	4307.4	3988.4	3522.8	3167.2	3032.9
45°	4368.4	4366.9	4389.8	4435.6	4432.5	4457.0	4389.8	4173.1	3730.4	3345.8	3185.5
47.5°	3985.3	3977.7	4058.6	4162.4	4214.3	4328.8	4391.3	4318.1	3956.3	3542.7	3359.5
50°	3385.5	3377.8	3554.9	3799.1	3951.7	4125.7	4307.4	4405.1	4192.9	3764.0	3548.8
52.5°	2655.9	2648.2	2872.6	3300.0	3632.7	3886.1	4138.0	4424.9	4417.3	4011.3	3762.5
55°	1975.1	1969.0	2187.3	2649.8	3188.6	3608.3	3930.4	4373.0	4627.9	4295.2	4022.0
57.5°	1392.0	1389.0	1578.3	1961.4	2617.7	3269.5	3730.4	4272.3	4821.8	4603.5	4315.0
60°	976.9	972.3	1109.7	1405.8	1979.7	2758.1	3532.0	4138.0	4966.8	4907.2	4626.4
62.5°	657.9	654.8	752.5	999.8	1405.8	2123.2	3231.3	4047.9	5049.2	5212.5	4940.8
65°	499.1	497.6	541.9	677.7	995.2	1524.8	2753.6	4037.2	5059.9	5441.5	5207.9
67.5°	403.0	404.5	428.9	506.8	688.4	1083.7	2135.4	3970.1	5003.4	5519.3	5337.7
70°	329.7	329.7	340.4	392.3	508.3	731.1	1491.3	3664.8	4846.2	5316.3	5183.5
72.5°	251.8	253.4	287.0	317.5	383.1	512.9	955.5	3032.9	4475.3	4687.4	4586.7
75°	200.0	198.4	218.3	261.0	297.6	366.3	586.1	2175.1	3808.3	3663.3	3599.2
77.5°	143.5	142.0	157.2	193.8	225.9	259.5	349.5	1097.5	2071.3	1903.4	1856.1
80°	97.7	94.6	108.4	134.3	149.6	152.6	171.0	421.3	903.6	851.7	841.0
82.5°	50.4	50.4	58.0	76.3	77.8	79.4	76.3	135.8	299.2	279.3	267.1
85°	19.8	19.8	21.4	25.9	25.9	27.5	27.5	35.1	32.1	30.5	29.0
87.5°	1.5	1.5	3.1	3.1	4.6	4.6	4.6	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°	1511.1	1511.1	1511.1	1511.1	1511.1	1511.1	1511.1	1511.1	1511.1	1511.1	1511.1
2.5°	1523.3	1517.2	1497.4	1492.8	1489.7	1485.1	1486.7	1476.0	1471.4	1472.9	1466.8
5°	1550.8	1540.1	1515.7	1505.0	1501.9	1497.4	1501.9	1494.3	1486.7	1489.7	1486.7
7.5°	1588.9	1573.7	1543.1	1532.5	1530.9	1526.4	1532.5	1526.4	1520.3	1523.3	1517.2
10°	1628.6	1608.8	1575.2	1564.5	1564.5	1563.0	1569.1	1559.9	1553.8	1555.4	1552.3
12.5°	1686.6	1660.7	1624.0	1614.9	1610.3	1614.9	1616.4	1604.2	1593.5	1595.0	1590.5
15°	1756.8	1727.8	1688.2	1674.4	1671.4	1669.8	1663.7	1648.5	1634.7	1633.2	1628.6
17.5°	1833.2	1796.5	1749.2	1735.5	1721.7	1717.2	1701.9	1682.0	1660.7	1660.7	1654.6
20°	1906.4	1865.2	1808.7	1788.9	1769.0	1750.7	1724.8	1692.7	1665.3	1660.7	1654.6
22.5°	1985.8	1936.9	1871.3	1842.3	1807.2	1770.6	1726.3	1683.6	1648.5	1640.8	1636.3
25°	2074.3	2013.3	1935.4	1892.7	1836.2	1779.7	1714.1	1659.2	1617.9	1605.7	1602.7
27.5°	2172.0	2098.7	2004.1	1941.5	1859.1	1770.6	1686.6	1621.0	1570.6	1555.4	1550.8
30°	2271.2	2184.2	2066.7	1975.1	1859.1	1741.6	1636.3	1559.9	1501.9	1480.6	1477.5
32.5°	2370.4	2272.7	2123.2	1993.4	1840.8	1692.7	1570.6	1480.6	1414.9	1389.0	1395.1
35°	2489.5	2370.4	2175.1	2001.1	1810.3	1633.2	1495.8	1390.5	1323.4	1300.5	1305.0
37.5°	2613.1	2468.1	2216.3	1995.0	1767.5	1566.0	1411.9	1309.6	1225.7	1186.0	1190.6
40°	2720.0	2556.6	2245.3	1973.6	1712.6	1489.7	1329.5	1195.1	1079.1	1041.0	1036.4
42.5°	2820.7	2622.3	2260.5	1941.5	1650.0	1401.2	1211.9	1039.4	923.4	876.1	877.7
45°	2926.0	2686.4	2254.4	1898.8	1572.1	1297.4	1060.8	886.8	784.5	741.8	743.3
47.5°	3046.6	2755.1	2248.3	1853.0	1477.5	1163.1	915.8	752.5	664.0	633.4	630.4
50°	3174.8	2831.4	2240.7	1796.5	1372.2	1013.5	772.3	627.3	552.5	532.7	528.1
52.5°	3319.8	2913.8	2236.1	1729.4	1245.5	854.8	644.1	517.4	467.1	453.3	451.8
55°	3493.8	3010.0	2242.2	1648.5	1092.9	705.2	535.8	445.7	412.1	404.5	403.0
57.5°	3706.0	3133.6	2260.5	1553.8	932.6	575.4	456.4	401.4	380.1	374.0	374.0
60°	3936.5	3274.0	2294.1	1447.0	772.3	474.7	404.5	366.3	357.2	364.8	364.8
62.5°	4185.3	3438.9	2353.6	1317.2	622.8	401.4	363.3	337.3	331.2	346.5	348.0
65°	4415.8	3599.2	2391.8	1161.6	494.5	348.0	331.2	308.3	311.4	326.6	325.1
67.5°	4557.7	3731.9	2338.4	966.2	392.3	308.3	297.6	277.8	285.4	297.6	299.2
70°	4470.7	3657.2	2074.3	729.6	306.8	268.6	261.0	248.8	254.9	270.2	276.3
72.5°	4044.8	3275.6	1613.4	493.0	247.3	225.9	229.0	222.8	230.5	244.2	258.0
75°	3283.2	2475.8	1082.2	316.0	195.4	192.3	196.9	192.3	195.4	209.1	216.7
77.5°	1714.1	1207.3	538.8	196.9	145.0	149.6	157.2	158.7	167.9	171.0	174.0
80°	799.8	543.4	224.4	109.9	96.2	105.3	120.6	122.1	125.2	129.7	131.3
82.5°	261.0	163.3	103.8	59.5	54.9	59.5	77.8	93.1	94.6	103.8	103.8
85°	27.5	16.8	22.9	24.4	21.4	25.9	35.1	33.6	15.3	9.2	9.2
87.5°	7.6	6.1	7.6	7.6	6.1	6.1	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)