

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: P800263

Luminaire Tested: **ARCH2-90-727-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-90-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11455 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - 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

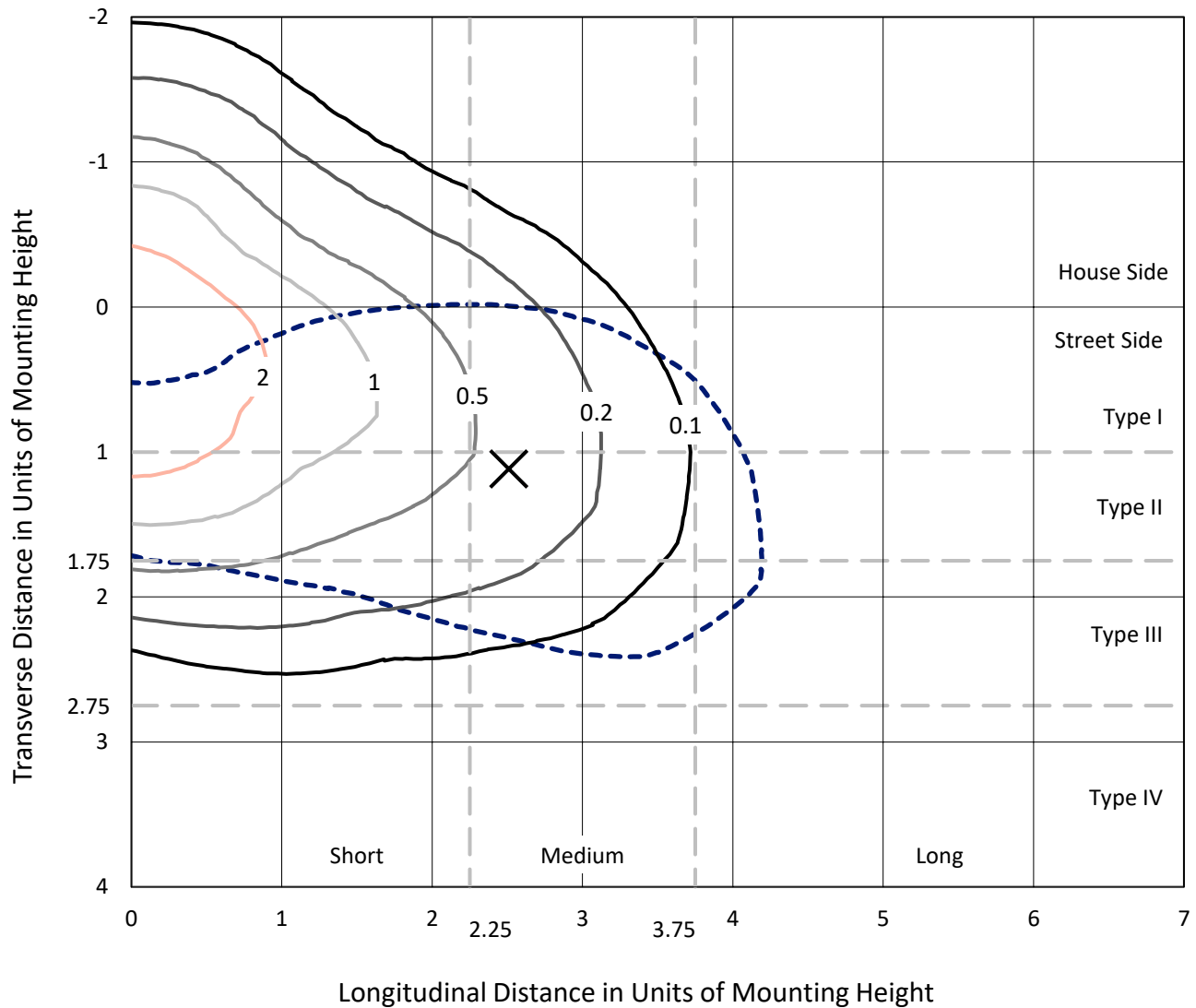


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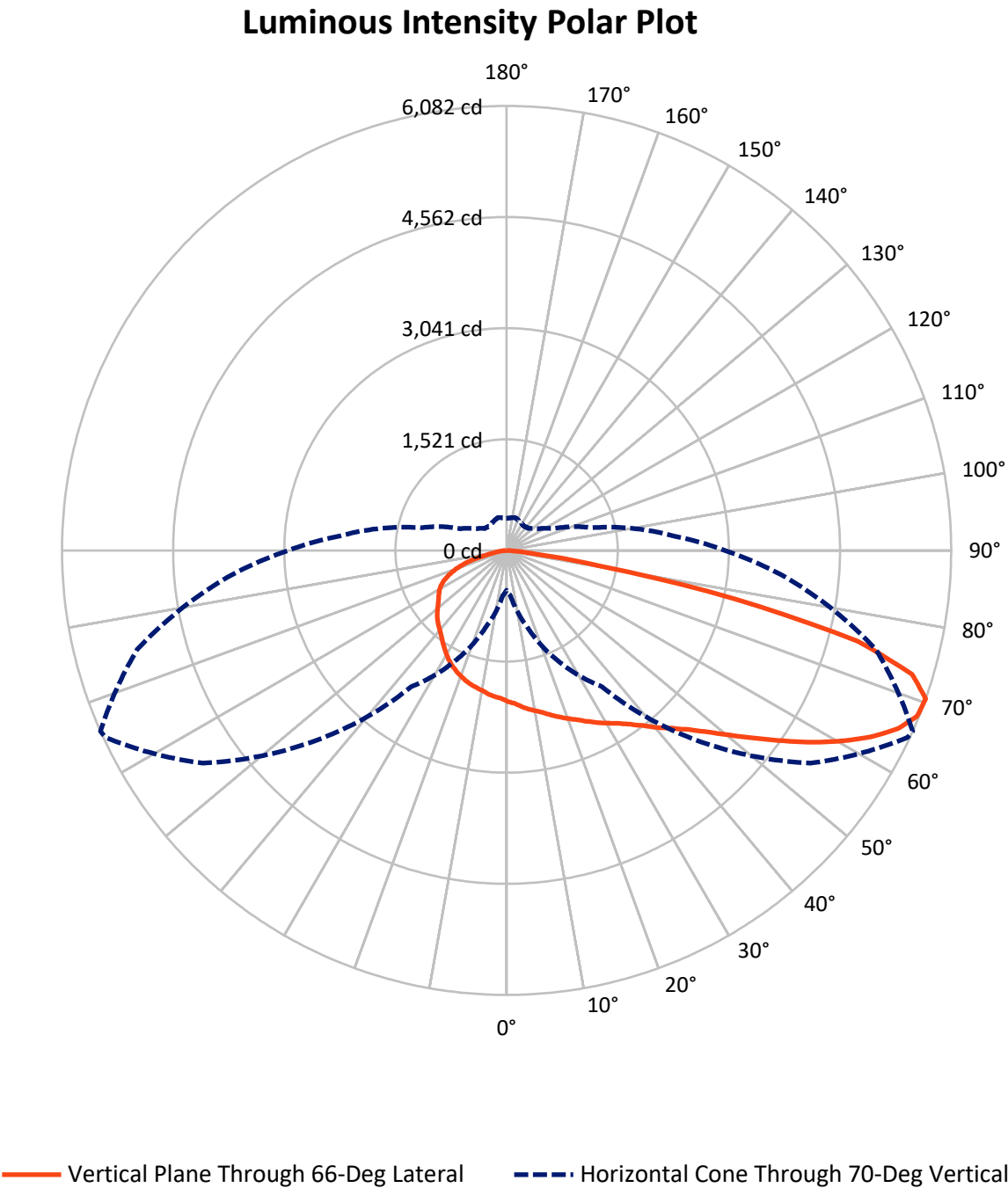
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Medium - N/A

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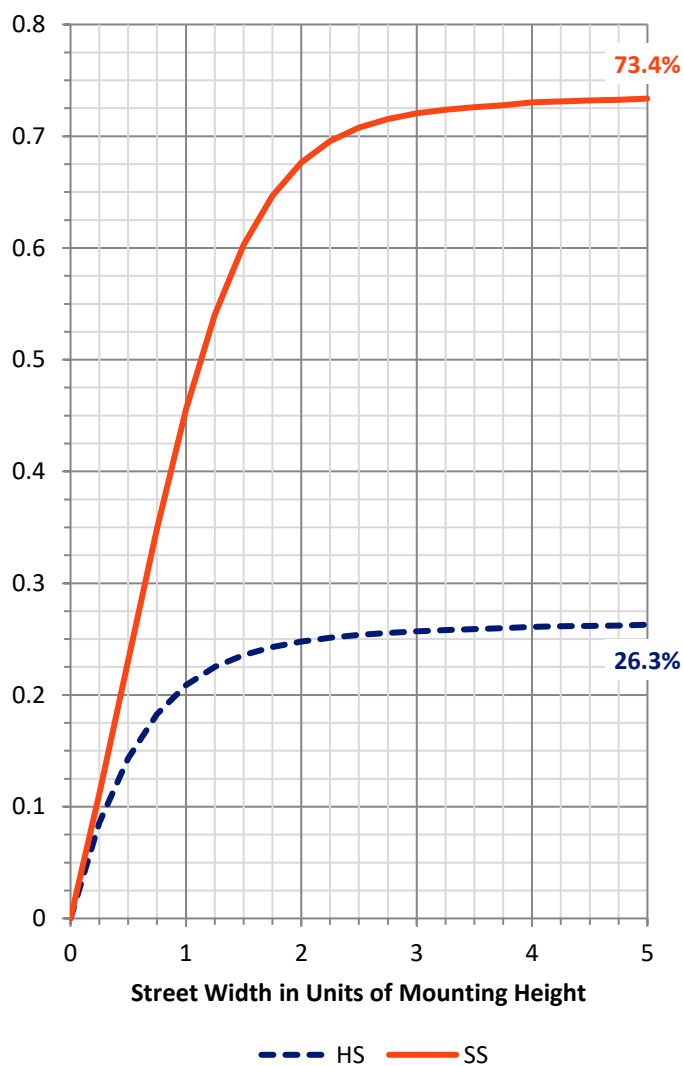
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3035.3	0.0	3035.3
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8419.7	0.0	8419.7
	% Fixture	73.5	0.0	73.5
Total	Lumens	11455.0	0.0	11455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	1.7
10°-20°	595.9	5.2
20°-30°	998.9	8.7
30°-40°	1495.7	13.1
40°-50°	1999.7	17.5
50°-60°	2334.8	20.4
60°-70°	2321.5	20.3
70°-80°	1374.4	12.0
80°-90°	135.5	1.2
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°	11455.0	100.0
0°-180°	11455.0	100.0

Coefficient of Utilization



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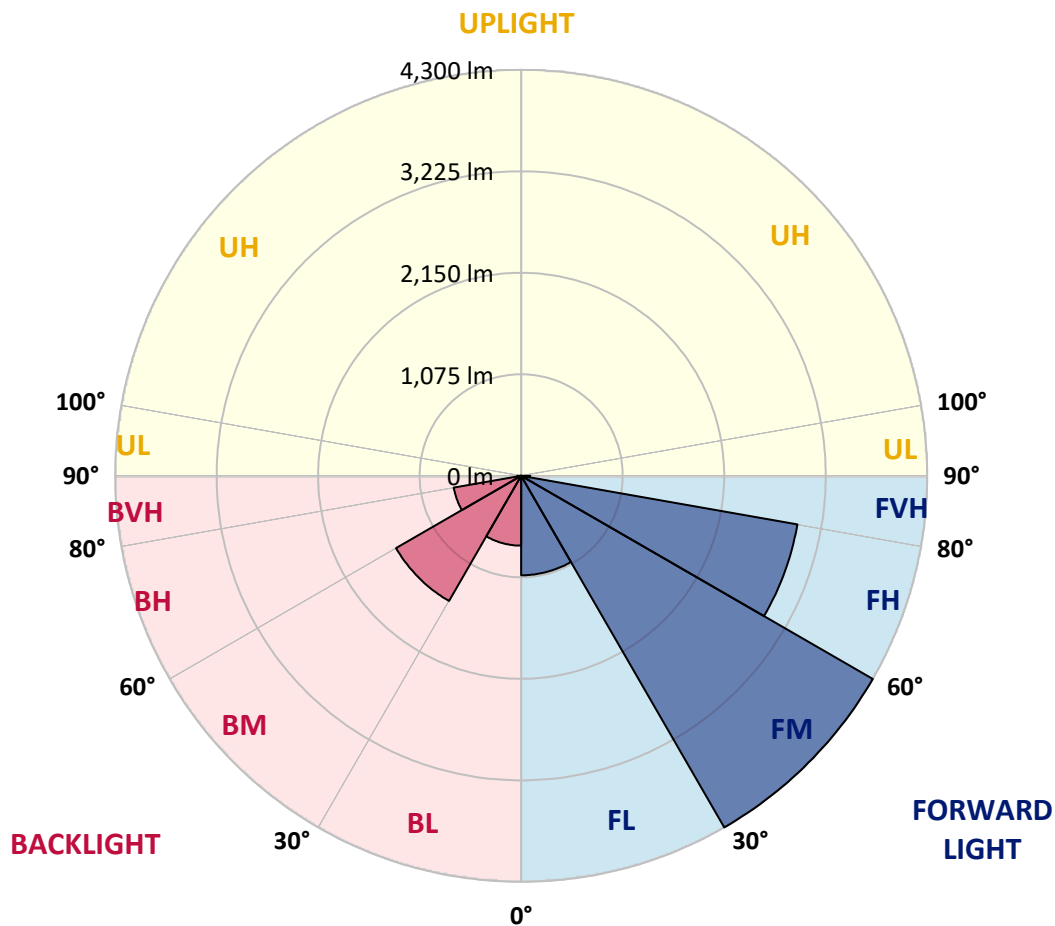
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1053.6	9.2			
FM	(30°-60°)	4300.1	37.5			
FH	(60°-80°)	2970.9	25.9			G2/5000
FVH	(80°-90°)	95.2	0.8			G1/100
BL	(0°-30°)	739.9	6.5	B2/1000		
BM	(30°-60°)	1530.1	13.4	B2/2500		
BH	(60°-80°)	725.1	6.3	B2/1000		G2/1000
BVH	(80°-90°)	40.3	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4
2.5°	2143.4	2140.0	2138.3	2131.5	2116.3	2123.1	2107.9	2097.8	2096.1	2072.4	2058.9
5°	2231.2	2229.5	2226.1	2216.0	2192.4	2195.7	2170.4	2151.8	2146.8	2109.6	2080.9
7.5°	2305.5	2302.1	2300.5	2286.9	2261.6	2259.9	2229.5	2202.5	2194.0	2143.4	2099.5
10°	2362.9	2357.9	2361.3	2347.7	2320.7	2315.7	2276.8	2241.3	2232.9	2168.7	2107.9
12.5°	2411.9	2408.5	2413.6	2401.8	2379.8	2374.8	2335.9	2290.3	2280.2	2205.9	2126.5
15°	2466.0	2454.2	2464.3	2459.2	2444.0	2442.3	2406.9	2356.2	2342.7	2253.2	2155.2
17.5°	2494.7	2487.9	2499.8	2501.4	2494.7	2506.5	2472.7	2411.9	2400.1	2297.1	2180.5
20°	2515.0	2504.8	2518.3	2528.5	2533.5	2557.2	2530.2	2471.0	2457.5	2339.3	2204.2
22.5°	2584.2	2562.3	2563.9	2570.7	2574.1	2607.9	2591.0	2533.5	2520.0	2391.7	2232.9
25°	2758.2	2714.3	2685.5	2665.3	2641.6	2670.3	2660.2	2604.5	2592.7	2454.2	2268.4
27.5°	3028.4	2972.7	2915.3	2856.1	2763.2	2751.4	2734.5	2683.9	2670.3	2516.6	2303.8
30°	3335.8	3280.1	3212.5	3117.9	2944.0	2852.8	2813.9	2758.2	2743.0	2572.4	2337.6
32.5°	3641.5	3592.6	3525.0	3410.1	3161.9	2976.1	2893.3	2835.9	2820.7	2633.2	2378.1
35°	3879.7	3849.3	3805.4	3661.8	3378.1	3121.3	3008.2	2938.9	2922.0	2729.5	2452.5
37.5°	4072.2	4050.3	4013.1	3862.8	3535.1	3266.6	3139.9	3060.5	3041.9	2834.2	2531.8
40°	4356.0	4298.6	4268.2	4050.3	3671.9	3398.3	3288.5	3205.8	3185.5	2945.7	2596.0
42.5°	4597.5	4555.3	4518.1	4217.5	3802.0	3511.5	3428.7	3352.7	3325.7	3055.4	2665.3
45°	4638.1	4655.0	4636.4	4300.3	4008.1	3623.0	3570.6	3521.6	3496.3	3204.1	2770.0
47.5°	4639.8	4639.8	4530.0	4347.6	4263.1	3747.9	3722.6	3739.5	3712.5	3393.3	2895.0
50°	4518.1	4540.1	4482.7	4359.4	4330.7	3872.9	3908.4	3999.6	3972.6	3594.2	3030.1
52.5°	4266.5	4339.1	4337.4	4340.8	4232.7	3979.3	4104.3	4312.1	4266.5	3820.6	3173.7
55°	3822.3	3967.5	4097.6	4209.1	4148.2	4043.5	4344.2	4644.8	4597.5	4073.9	3318.9
57.5°	3442.2	3535.1	3697.3	4013.1	4048.6	4099.3	4568.8	4992.8	4950.5	4354.3	3470.9
60°	3008.2	3136.5	3298.7	3747.9	3927.0	4171.9	4815.4	5332.3	5291.7	4638.1	3617.9
62.5°	2341.0	2506.5	2830.8	3340.9	3749.6	4217.5	5009.6	5631.2	5612.6	4906.6	3749.6
65°	1631.6	1778.5	2232.9	2840.9	3467.6	4197.2	5165.0	5898.1	5881.2	5126.2	3842.5
67.5°	952.6	1123.2	1636.7	2286.9	2969.3	4057.0	5215.7	6055.2	6055.2	5259.6	3867.9
70°	543.9	623.3	1079.3	1667.1	2276.8	3670.3	5073.8	6053.5	6082.2	5229.2	3763.1
72.5°	380.0	415.5	726.3	1121.5	1543.8	2969.3	4702.2	5761.3	5800.1	4942.1	3405.1
75°	295.6	320.9	511.8	765.1	972.9	2016.7	3889.8	4857.6	4960.7	4212.4	2753.1
77.5°	224.6	243.2	299.0	478.0	623.3	1158.7	2567.3	3185.5	3192.3	2579.1	1476.2
80°	163.8	182.4	199.3	292.2	331.0	542.2	969.5	1331.0	1293.8	1248.2	798.9
82.5°	98.0	116.5	121.6	158.8	162.1	231.4	339.5	429.0	412.1	548.9	375.0
85°	42.2	59.1	62.5	72.6	69.3	94.6	135.1	113.2	101.3	116.5	81.1
87.5°	10.1	16.9	16.9	18.6	15.2	23.6	25.3	18.6	16.9	20.3	20.3
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°	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4	2067.4
2.5°	2055.5	2050.5	2052.2	2023.5	2015.0	2006.6	2001.5	1998.1	1994.7	1999.8	2004.9
5°	2070.7	2058.9	2045.4	2003.2	1986.3	1967.7	1954.2	1942.4	1937.3	1937.3	1942.4
7.5°	2082.6	2062.3	2033.6	1977.8	1947.4	1922.1	1900.2	1885.0	1876.5	1876.5	1881.6
10°	2084.3	2055.5	2009.9	1942.4	1901.8	1864.7	1839.3	1822.5	1810.6	1810.6	1814.0
12.5°	2094.4	2055.5	1996.4	1915.4	1864.7	1819.1	1788.7	1763.3	1758.3	1758.3	1761.7
15°	2111.3	2064.0	1988.0	1891.7	1830.9	1778.5	1744.8	1717.7	1707.6	1714.4	1716.0
17.5°	2126.5	2069.1	1972.8	1861.3	1788.7	1731.3	1694.1	1670.4	1656.9	1672.1	1672.1
20°	2136.6	2069.1	1950.8	1822.5	1743.1	1678.9	1643.4	1614.7	1604.6	1623.2	1624.8
22.5°	2151.8	2067.4	1927.2	1783.6	1694.1	1626.5	1591.1	1569.1	1564.0	1584.3	1591.1
25°	2168.7	2070.7	1901.8	1739.7	1640.0	1574.2	1547.1	1537.0	1540.4	1565.7	1574.2
27.5°	2187.3	2077.5	1876.5	1690.7	1580.9	1521.8	1506.6	1511.7	1525.2	1557.3	1567.4
30°	2204.2	2079.2	1841.0	1633.3	1513.4	1457.6	1464.4	1486.3	1506.6	1538.7	1550.5
32.5°	2226.1	2080.9	1803.9	1570.8	1440.7	1400.2	1430.6	1466.1	1486.3	1516.7	1530.3
35°	2280.2	2109.6	1775.2	1510.0	1373.2	1351.2	1401.9	1447.5	1459.3	1486.3	1498.2
37.5°	2342.7	2156.9	1760.0	1447.5	1307.3	1302.2	1366.4	1412.0	1415.4	1432.3	1444.1
40°	2381.5	2177.2	1743.1	1395.1	1248.2	1251.6	1317.4	1352.9	1346.2	1358.0	1366.4
42.5°	2420.4	2183.9	1707.6	1351.2	1192.5	1195.8	1246.5	1271.8	1275.2	1300.5	1312.4
45°	2486.2	2202.5	1668.8	1310.7	1141.8	1130.0	1160.4	1194.1	1238.1	1287.0	1300.5
47.5°	2574.1	2241.3	1628.2	1261.7	1092.8	1054.0	1065.8	1124.9	1170.5	1216.1	1224.5
50°	2663.6	2280.2	1591.1	1202.6	1043.8	972.9	977.9	1032.0	1069.2	1104.6	1109.7
52.5°	2751.4	2314.0	1559.0	1146.8	988.1	876.6	896.9	952.6	977.9	994.8	999.9
55°	2839.3	2342.7	1530.3	1099.6	923.9	800.6	819.2	871.5	896.9	905.3	908.7
57.5°	2930.5	2376.5	1508.3	1059.0	851.3	733.0	744.9	782.0	805.7	815.8	812.4
60°	3006.5	2405.2	1496.5	1016.8	778.6	670.5	667.2	700.9	734.7	744.9	741.5
62.5°	3065.6	2423.8	1477.9	962.7	714.5	608.0	591.2	635.1	670.5	677.3	682.4
65°	3097.7	2425.4	1432.3	893.5	648.6	540.5	528.7	572.6	594.5	601.3	601.3
67.5°	3092.6	2398.4	1342.8	800.6	587.8	479.7	469.5	496.6	528.7	533.7	528.7
70°	2987.9	2286.9	1199.2	702.6	515.2	425.6	407.1	434.1	464.5	445.9	437.5
72.5°	2690.6	1998.1	988.1	594.5	434.1	358.1	349.6	376.7	378.3	381.7	373.3
75°	2123.1	1488.0	739.8	462.8	351.3	300.6	299.0	293.9	300.6	314.2	304.0
77.5°	1114.8	743.2	400.3	283.8	255.0	241.5	229.7	228.0	248.3	256.7	246.6
80°	604.7	417.2	229.7	170.6	155.4	157.1	172.3	168.9	190.9	195.9	187.5
82.5°	263.5	197.6	113.2	103.0	103.0	101.3	106.4	118.2	141.9	141.9	113.2
85°	57.4	49.0	43.9	50.7	57.4	57.4	57.4	57.4	40.5	22.0	15.2
87.5°	18.6	18.6	18.6	20.3	22.0	22.0	18.6	13.5	8.4	1.7	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)