

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: P799239

Luminaire Tested: **ARCH2-100-727-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799239
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: ARCH2-100-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12203 lumens
Efficiency: N/A
Efficacy: 118.1 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): 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



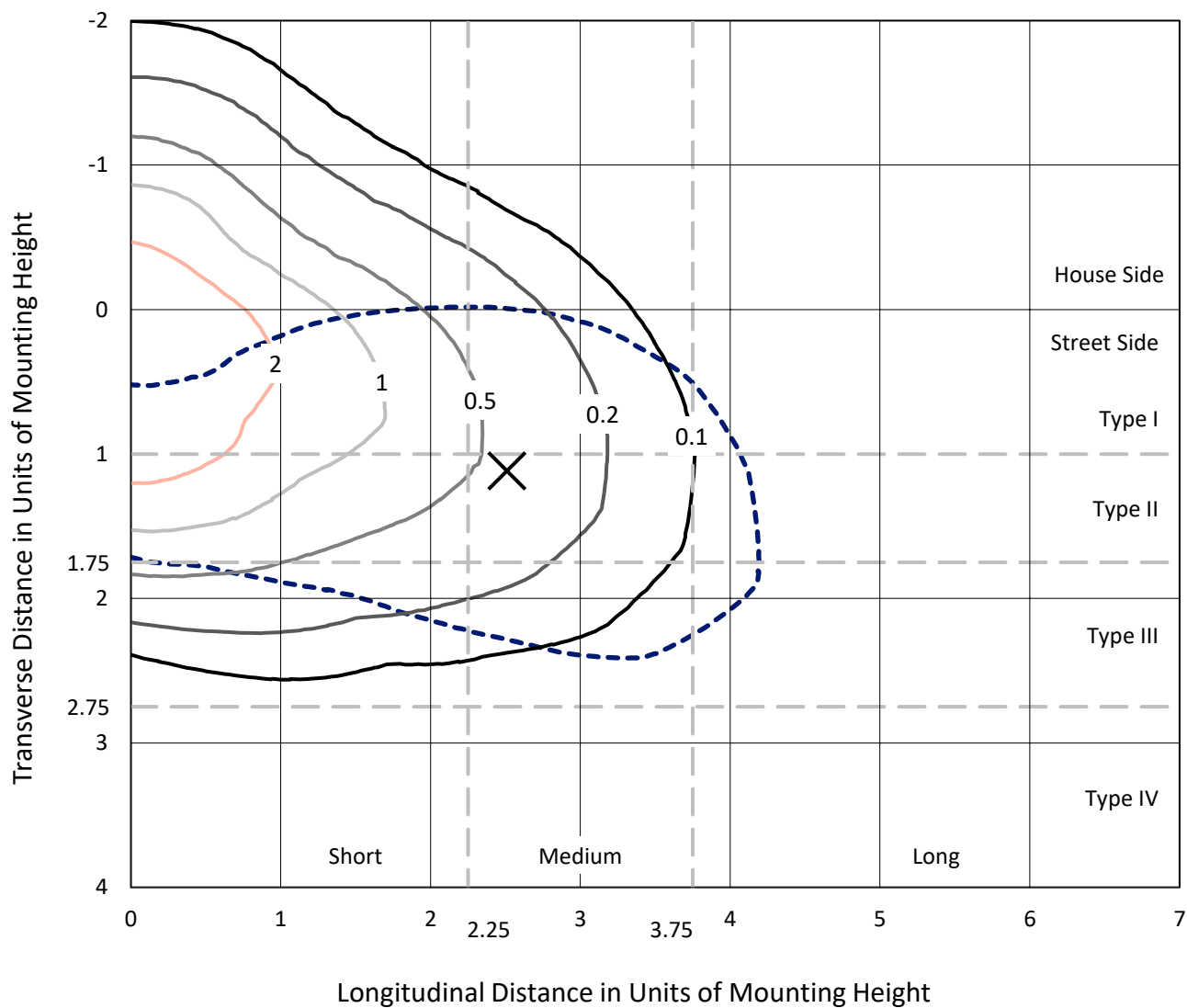
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

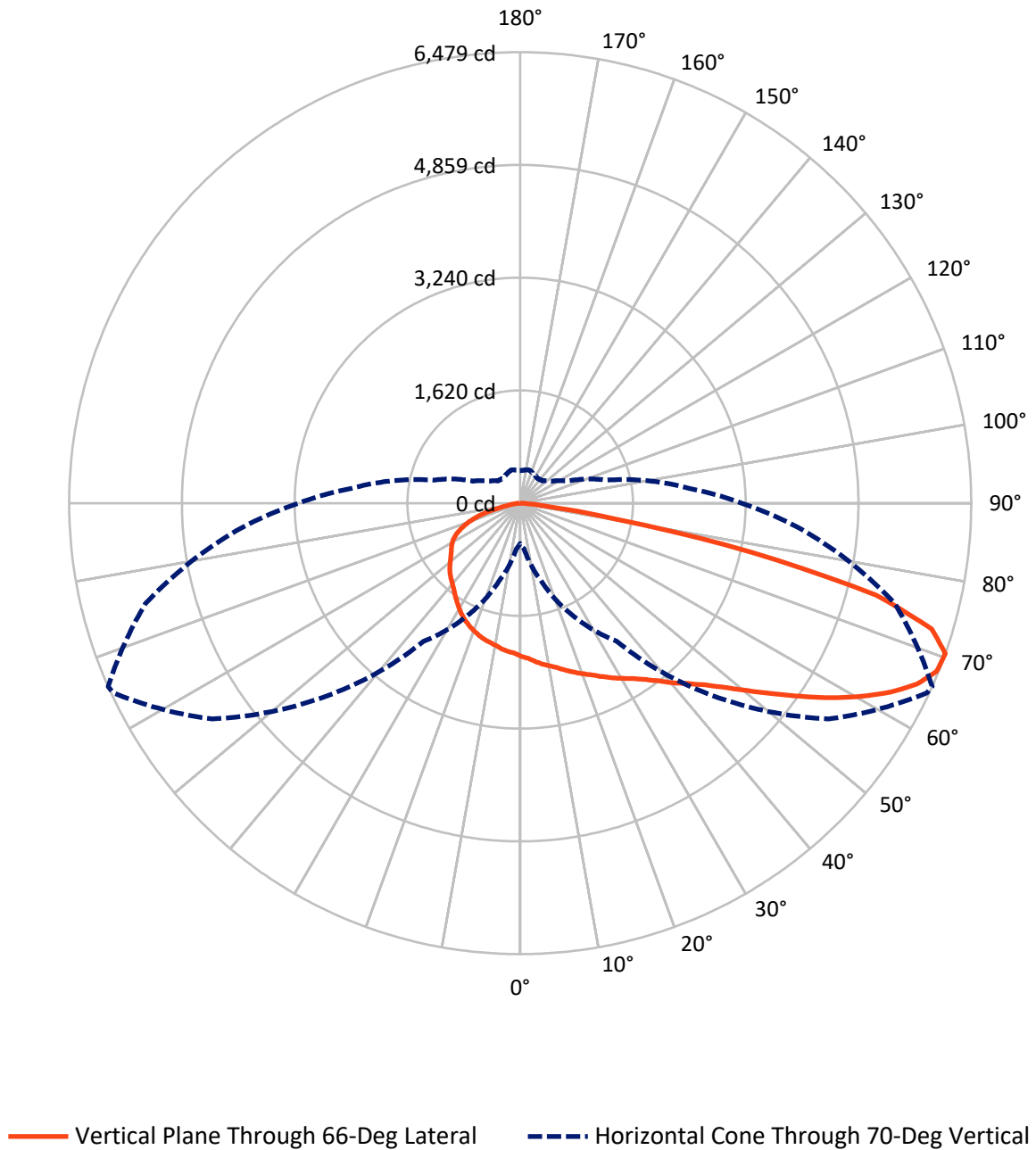


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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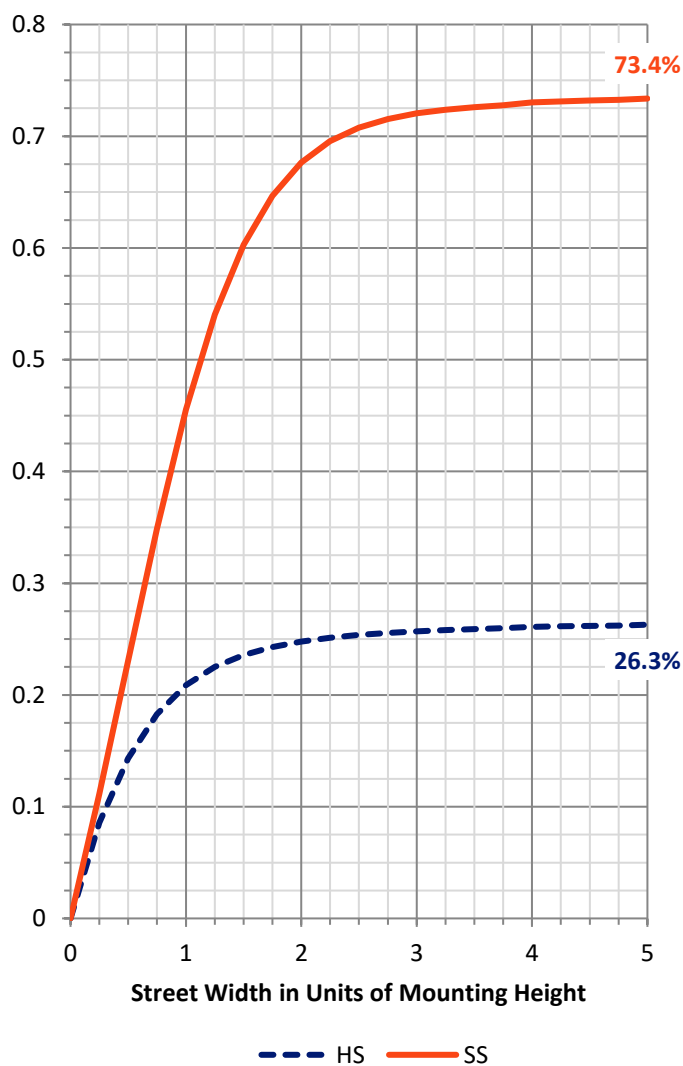
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3233.5	0.0	3233.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8969.5	0.0	8969.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	12203.0	0.0	12203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	1.7
10°-20°	634.8	5.2
20°-30°	1064.1	8.7
30°-40°	1593.3	13.1
40°-50°	2130.3	17.5
50°-60°	2487.2	20.4
60°-70°	2473.1	20.3
70°-80°	1464.1	12.0
80°-90°	144.3	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°	12203.0	100.0
0°-180°	12203.0	100.0

Coefficient of Utilization



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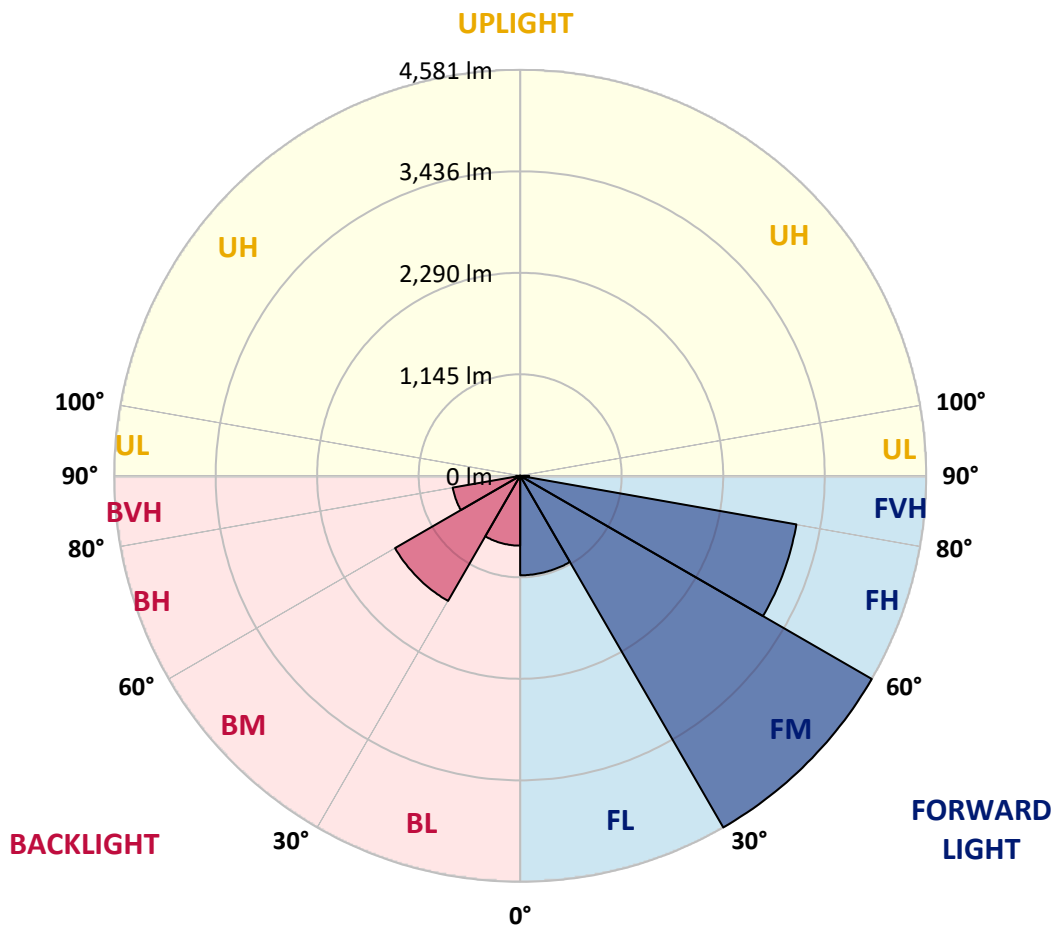
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1122.4	9.2			
FM	(30°-60°)	4580.8	37.5			
FH	(60°-80°)	3164.9	25.9			G2/5000
FVH	(80°-90°)	101.4	0.8			G2/225
BL	(0°-30°)	788.2	6.5	B2/1000		
BM	(30°-60°)	1630.0	13.4	B2/2500		
BH	(60°-80°)	772.4	6.3	B2/1000		G2/1000
BVH	(80°-90°)	42.9	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°	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4
2.5°	2283.3	2279.7	2277.9	2270.7	2254.5	2261.7	2245.5	2234.8	2233.0	2207.8	2193.4
5°	2376.9	2375.1	2371.5	2360.7	2335.5	2339.1	2312.1	2292.3	2286.9	2247.3	2216.8
7.5°	2456.1	2452.5	2450.7	2436.3	2409.3	2407.5	2375.1	2346.3	2337.3	2283.3	2236.6
10°	2517.2	2511.8	2515.4	2501.1	2472.3	2466.9	2425.5	2387.7	2378.7	2310.3	2245.5
12.5°	2569.4	2565.8	2571.2	2558.6	2535.2	2529.8	2488.5	2439.9	2429.1	2349.9	2265.3
15°	2627.0	2614.4	2625.2	2619.8	2603.6	2601.8	2564.0	2510.0	2495.7	2400.3	2295.9
17.5°	2657.6	2650.4	2663.0	2664.8	2657.6	2670.2	2634.2	2569.4	2556.8	2447.1	2322.9
20°	2679.2	2668.4	2682.8	2693.6	2699.0	2724.2	2695.4	2632.4	2618.0	2492.1	2348.1
22.5°	2753.0	2729.6	2731.4	2738.6	2742.2	2778.1	2760.2	2699.0	2684.6	2547.8	2378.7
25°	2938.3	2891.5	2860.9	2839.3	2814.1	2844.7	2833.9	2774.5	2762.0	2614.4	2416.5
27.5°	3226.2	3166.8	3105.6	3042.6	2943.7	2931.1	2913.1	2859.1	2844.7	2681.0	2454.3
30°	3553.7	3494.3	3422.3	3321.5	3136.2	3039.0	2997.7	2938.3	2922.1	2740.4	2490.3
32.5°	3879.3	3827.1	3755.2	3632.8	3368.3	3170.4	3082.2	3021.1	3004.9	2805.1	2533.4
35°	4133.0	4100.6	4053.9	3900.9	3598.6	3325.1	3204.6	3130.8	3112.8	2907.7	2612.6
37.5°	4338.2	4314.8	4275.2	4115.0	3766.0	3479.9	3344.9	3260.4	3240.6	3019.3	2697.2
40°	4640.4	4579.3	4546.9	4314.8	3911.7	3620.2	3503.3	3415.1	3393.5	3138.0	2765.5
42.5°	4897.7	4852.8	4813.2	4492.9	4050.3	3740.8	3652.6	3571.6	3542.9	3255.0	2839.3
45°	4940.9	4958.9	4939.1	4581.1	4269.8	3859.5	3803.8	3751.6	3724.6	3413.3	2950.9
47.5°	4942.7	4942.7	4825.8	4631.4	4541.5	3992.7	3965.7	3983.7	3954.9	3614.8	3084.0
50°	4813.2	4836.6	4775.4	4644.0	4613.4	4125.8	4163.6	4260.8	4232.0	3828.9	3228.0
52.5°	4545.1	4622.4	4620.6	4624.2	4509.1	4239.2	4372.3	4593.7	4545.1	4070.1	3380.9
55°	4071.9	4226.6	4365.1	4483.9	4419.1	4307.6	4627.8	4948.1	4897.7	4340.0	3535.7
57.5°	3667.0	3766.0	3938.7	4275.2	4313.0	4366.9	4867.2	5318.8	5273.8	4638.6	3697.6
60°	3204.6	3341.3	3514.1	3992.7	4183.4	4444.3	5129.9	5680.4	5637.3	4940.9	3854.1
62.5°	2493.9	2670.2	3015.7	3559.0	3994.5	4492.9	5336.8	5998.9	5979.1	5227.0	3994.5
65°	1738.1	1894.7	2378.7	3026.5	3694.0	4471.3	5502.3	6283.2	6265.2	5460.9	4093.4
67.5°	1014.8	1196.5	1743.5	2436.3	3163.2	4322.0	5556.3	6450.6	6450.6	5603.1	4120.4
70°	579.4	663.9	1149.8	1775.9	2425.5	3909.9	5405.1	6448.8	6479.3	5570.7	4008.9
72.5°	404.8	442.6	773.7	1194.7	1644.6	3163.2	5009.3	6137.5	6178.9	5264.8	3627.4
75°	314.9	341.9	545.2	815.1	1036.4	2148.4	4143.8	5174.8	5284.6	4487.5	2932.9
77.5°	239.3	259.1	318.5	509.2	663.9	1234.3	2735.0	3393.5	3400.7	2747.6	1572.6
80°	174.5	194.3	212.3	311.3	352.7	577.6	1032.8	1417.9	1378.3	1329.7	851.1
82.5°	104.4	124.2	129.6	169.1	172.7	246.5	361.7	457.0	439.0	584.8	399.4
85°	45.0	63.0	66.6	77.4	73.8	100.8	143.9	120.6	108.0	124.2	86.4
87.5°	10.8	18.0	18.0	19.8	16.2	25.2	27.0	19.8	18.0	21.6	21.6
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°	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4
2.5°	2189.8	2184.4	2186.2	2155.6	2146.6	2137.6	2132.2	2128.6	2125.0	2130.4	2135.8
5°	2206.0	2193.4	2179.0	2134.0	2116.0	2096.2	2081.8	2069.2	2063.8	2063.8	2069.2
7.5°	2218.6	2197.0	2166.4	2107.0	2074.6	2047.6	2024.2	2008.0	1999.0	1999.0	2004.4
10°	2220.4	2189.8	2141.2	2069.2	2026.0	1986.4	1959.5	1941.5	1928.9	1928.9	1932.5
12.5°	2231.2	2189.8	2126.8	2040.4	1986.4	1937.9	1905.5	1878.5	1873.1	1873.1	1876.7
15°	2249.1	2198.8	2117.8	2015.2	1950.5	1894.7	1858.7	1829.9	1819.1	1826.3	1828.1
17.5°	2265.3	2204.2	2101.6	1982.8	1905.5	1844.3	1804.7	1779.5	1765.1	1781.3	1781.3
20°	2276.1	2204.2	2078.2	1941.5	1856.9	1788.5	1750.7	1720.1	1709.4	1729.1	1730.9
22.5°	2292.3	2202.4	2053.0	1900.1	1804.7	1732.7	1695.0	1671.6	1666.2	1687.8	1695.0
25°	2310.3	2206.0	2026.0	1853.3	1747.1	1677.0	1648.2	1637.4	1641.0	1668.0	1677.0
27.5°	2330.1	2213.2	1999.0	1801.1	1684.2	1621.2	1605.0	1610.4	1624.8	1659.0	1669.8
30°	2348.1	2215.0	1961.3	1739.9	1612.2	1552.8	1560.0	1583.4	1605.0	1639.2	1651.8
32.5°	2371.5	2216.8	1921.7	1673.4	1534.8	1491.6	1524.0	1561.8	1583.4	1615.8	1630.2
35°	2429.1	2247.3	1891.1	1608.6	1462.8	1439.5	1493.4	1542.0	1554.6	1583.4	1596.0
37.5°	2495.7	2297.7	1874.9	1542.0	1392.7	1387.3	1455.6	1504.2	1507.8	1525.8	1538.4
40°	2537.0	2319.3	1856.9	1486.2	1329.7	1333.3	1403.5	1441.3	1434.1	1446.7	1455.6
42.5°	2578.4	2326.5	1819.1	1439.5	1270.3	1273.9	1327.9	1354.9	1358.5	1385.5	1398.1
45°	2648.6	2346.3	1777.7	1396.3	1216.3	1203.7	1236.1	1272.1	1318.9	1371.1	1385.5
47.5°	2742.2	2387.7	1734.5	1344.1	1164.2	1122.8	1135.4	1198.3	1246.9	1295.5	1304.5
50°	2837.5	2429.1	1695.0	1281.1	1112.0	1036.4	1041.8	1099.4	1139.0	1176.8	1182.2
52.5°	2931.1	2465.1	1660.8	1221.7	1052.6	933.8	955.4	1014.8	1041.8	1059.8	1065.2
55°	3024.7	2495.7	1630.2	1171.4	984.2	852.9	872.7	928.4	955.4	964.4	968.0
57.5°	3121.8	2531.6	1606.8	1128.2	906.9	780.9	793.5	833.1	858.3	869.1	865.5
60°	3202.8	2562.2	1594.2	1083.2	829.5	714.3	710.7	746.7	782.7	793.5	789.9
62.5°	3265.8	2582.0	1574.4	1025.6	761.1	647.8	629.8	676.5	714.3	721.5	726.9
65°	3299.9	2583.8	1525.8	951.8	690.9	575.8	563.2	610.0	633.4	640.6	640.6
67.5°	3294.5	2555.0	1430.5	852.9	626.2	511.0	500.2	529.0	563.2	568.6	563.2
70°	3183.0	2436.3	1277.5	748.5	548.8	453.4	433.6	462.4	494.8	475.0	466.0
72.5°	2866.3	2128.6	1052.6	633.4	462.4	381.5	372.5	401.2	403.0	406.6	397.6
75°	2261.7	1585.2	788.1	493.0	374.3	320.3	318.5	313.1	320.3	334.7	323.9
77.5°	1187.5	791.7	426.4	302.3	271.7	257.3	244.7	242.9	264.5	273.5	262.7
80°	644.2	444.4	244.7	181.7	165.5	167.3	183.5	179.9	203.3	208.7	199.7
82.5°	280.7	210.5	120.6	109.8	109.8	108.0	113.4	126.0	151.1	151.1	120.6
85°	61.2	52.2	46.8	54.0	61.2	61.2	61.2	61.2	43.2	23.4	16.2
87.5°	19.8	19.8	19.8	21.6	23.4	23.4	19.8	14.4	9.0	1.8	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)