

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: P799255

Luminaire Tested: **ARCH2-100-730-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799255
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: ARCH2-100-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12646 lumens
Efficiency: N/A
Efficacy: 122.4 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

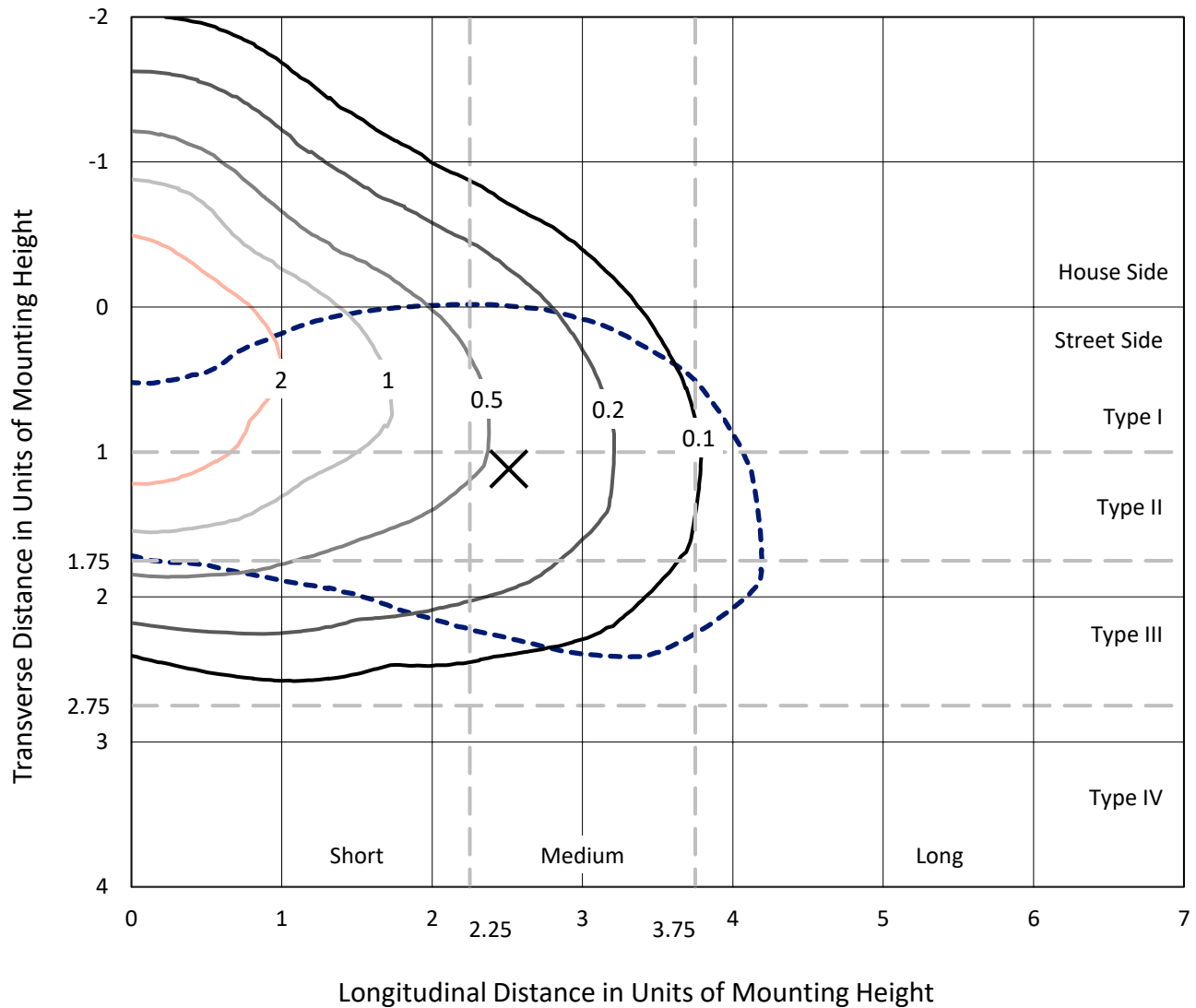


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

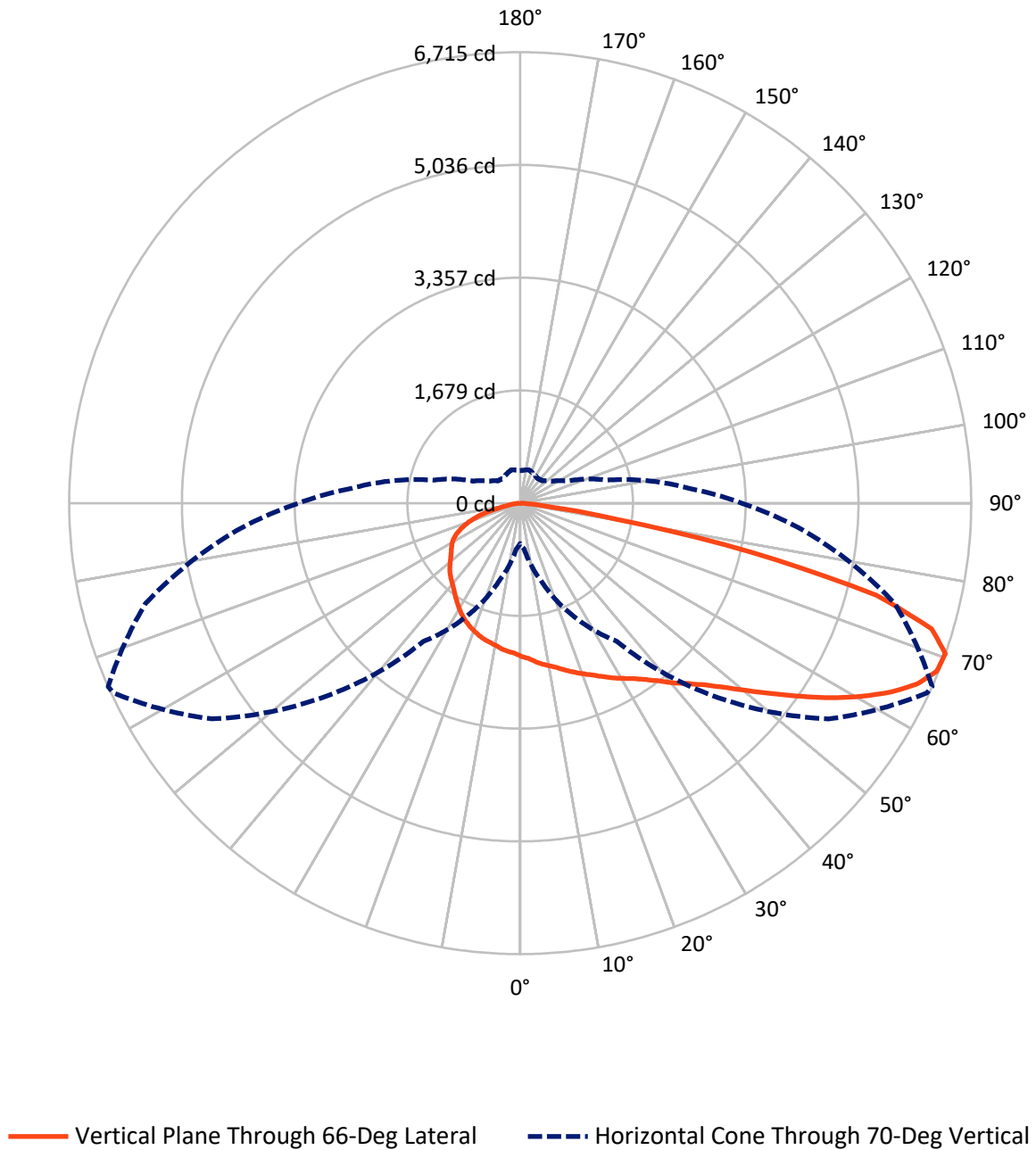


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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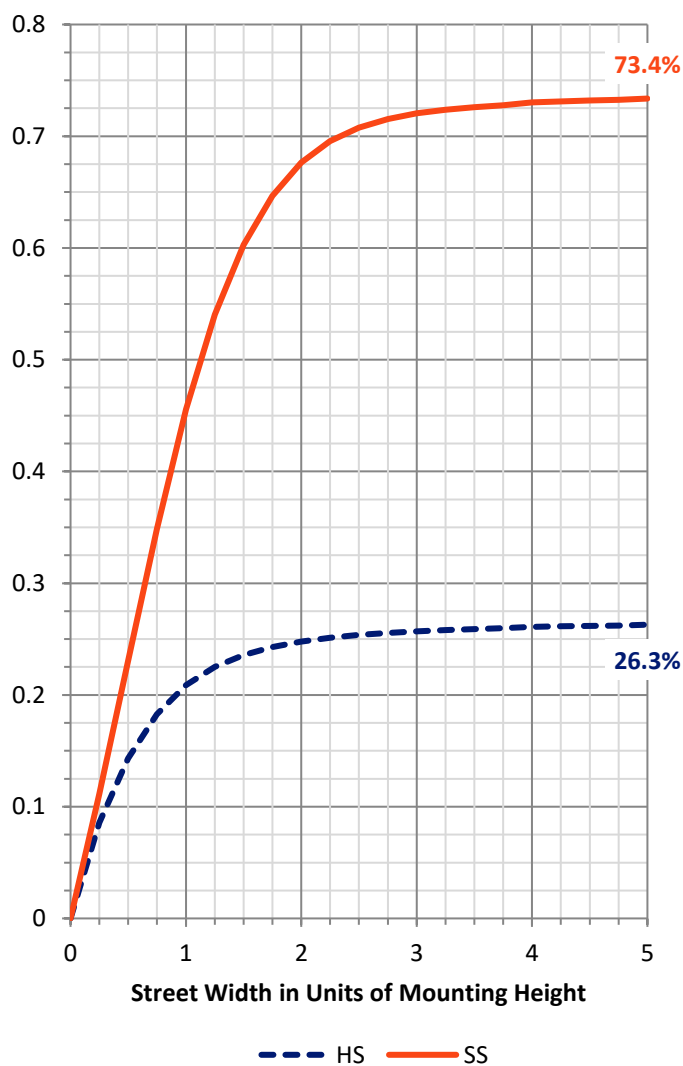
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3350.9	0.0	3350.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	9295.1	0.0	9295.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	12646.0	0.0	12646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	1.7
10°-20°	657.8	5.2
20°-30°	1102.8	8.7
30°-40°	1651.2	13.1
40°-50°	2207.6	17.5
50°-60°	2577.5	20.4
60°-70°	2562.9	20.3
70°-80°	1517.3	12.0
80°-90°	149.5	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°	12646.0	100.0
0°-180°	12646.0	100.0

Coefficient of Utilization



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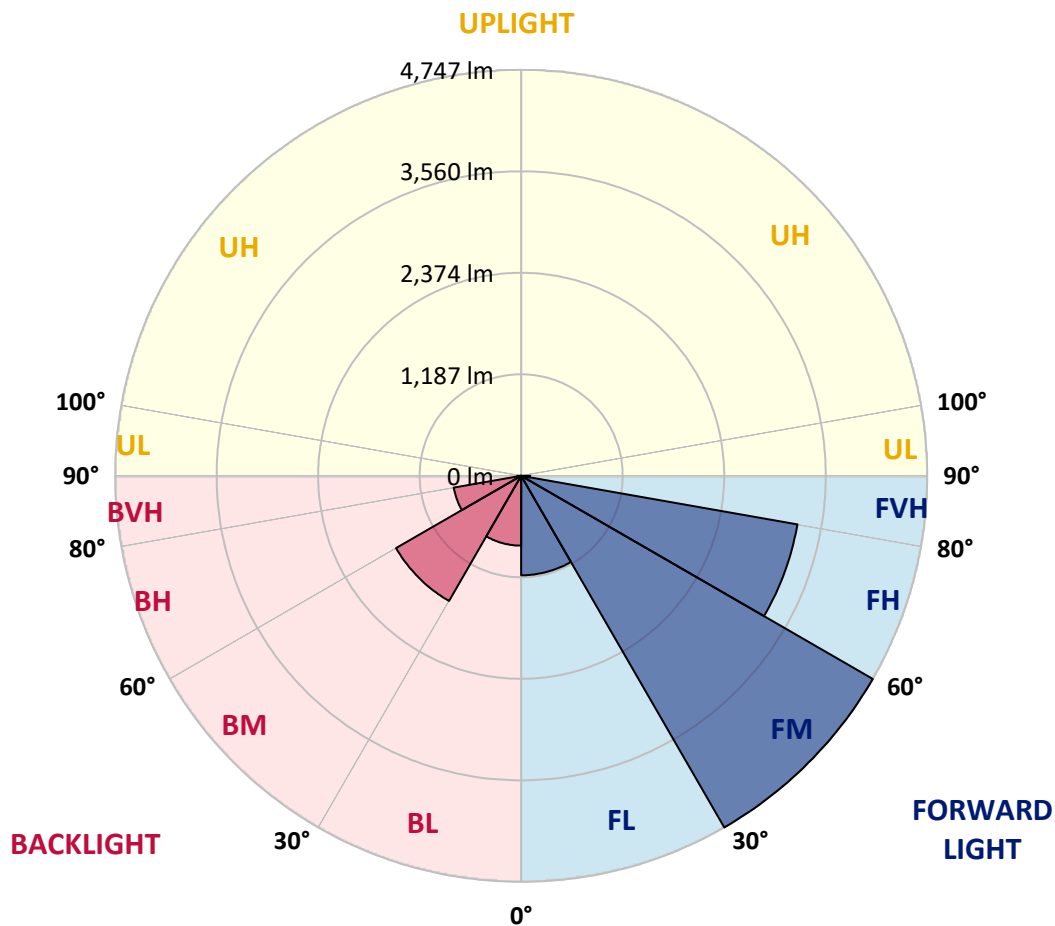
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1163.1	9.2			
FM	(30°-60°)	4747.1	37.5			
FH	(60°-80°)	3279.8	25.9			G2/5000
FVH	(80°-90°)	105.1	0.8			G2/225
BL	(0°-30°)	816.8	6.5	B2/1000		
BM	(30°-60°)	1689.2	13.4	B2/2500		
BH	(60°-80°)	800.4	6.3	B2/1000		G2/1000
BVH	(80°-90°)	44.4	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°	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3
2.5°	2366.2	2362.5	2360.6	2353.2	2336.4	2343.8	2327.1	2315.9	2314.0	2287.9	2273.0
5°	2463.2	2461.3	2457.6	2446.4	2420.3	2424.0	2396.1	2375.5	2370.0	2328.9	2297.2
7.5°	2545.2	2541.5	2539.6	2524.7	2496.7	2494.9	2461.3	2431.5	2422.2	2366.2	2317.7
10°	2608.6	2603.0	2606.8	2591.8	2562.0	2556.4	2513.5	2474.4	2465.0	2394.2	2327.1
12.5°	2662.7	2659.0	2664.6	2651.5	2627.3	2621.7	2578.8	2528.4	2517.3	2435.2	2347.6
15°	2722.4	2709.3	2720.5	2714.9	2698.1	2696.3	2657.1	2601.2	2586.3	2487.4	2379.3
17.5°	2754.1	2746.6	2759.7	2761.5	2754.1	2767.1	2729.8	2662.7	2649.6	2535.9	2407.2
20°	2776.4	2765.3	2780.2	2791.4	2797.0	2823.1	2793.2	2728.0	2713.0	2582.5	2433.4
22.5°	2852.9	2828.7	2830.5	2838.0	2841.7	2879.0	2860.4	2797.0	2782.0	2640.3	2465.0
25°	3045.0	2996.5	2964.8	2942.4	2916.3	2948.0	2936.8	2875.3	2862.2	2709.3	2504.2
27.5°	3343.3	3281.8	3218.4	3153.1	3050.5	3037.5	3018.8	2962.9	2948.0	2778.3	2543.4
30°	3682.7	3621.1	3546.5	3442.1	3250.1	3149.4	3106.5	3045.0	3028.2	2839.8	2580.7
32.5°	4020.2	3966.1	3891.5	3764.7	3490.6	3285.5	3194.1	3130.7	3113.9	2907.0	2625.4
35°	4283.1	4249.5	4201.0	4042.5	3729.3	3445.8	3320.9	3244.5	3225.8	3013.3	2707.5
37.5°	4495.6	4471.4	4430.4	4264.4	3902.7	3606.2	3466.4	3378.7	3358.2	3128.9	2795.1
40°	4808.9	4745.5	4711.9	4471.4	4053.7	3751.6	3630.4	3539.1	3516.7	3251.9	2865.9
42.5°	5075.5	5028.9	4987.9	4656.0	4197.3	3876.6	3785.2	3701.3	3671.5	3373.1	2942.4
45°	5120.3	5138.9	5118.4	4747.4	4424.8	3999.6	3941.8	3887.8	3859.8	3537.2	3058.0
47.5°	5122.2	5122.2	5001.0	4799.6	4706.3	4137.6	4109.7	4128.3	4098.5	3746.1	3196.0
50°	4987.9	5012.1	4948.7	4812.6	4780.9	4275.6	4314.8	4415.5	4385.6	3967.9	3345.2
52.5°	4710.1	4790.3	4788.4	4792.1	4672.8	4393.1	4531.1	4760.4	4710.1	4217.8	3503.7
55°	4219.7	4380.0	4523.6	4646.7	4579.5	4463.9	4795.8	5127.8	5075.5	4497.5	3664.0
57.5°	3800.1	3902.7	4081.7	4430.4	4469.5	4525.5	5043.8	5511.9	5465.2	4807.0	3831.8
60°	3320.9	3462.6	3641.6	4137.6	4335.3	4605.7	5316.1	5886.7	5841.9	5120.3	3994.1
62.5°	2584.4	2767.1	3125.1	3688.3	4139.5	4656.0	5530.5	6216.7	6196.2	5416.8	4139.5
65°	1801.2	1963.5	2465.0	3136.3	3828.1	4633.6	5702.1	6511.3	6492.7	5659.2	4242.0
67.5°	1051.7	1240.0	1806.8	2524.7	3278.0	4478.9	5758.0	6684.7	6684.7	5806.5	4270.0
70°	600.4	688.1	1191.5	1840.4	2513.5	4051.9	5601.4	6682.9	6714.6	5772.9	4154.4
72.5°	419.5	458.7	801.8	1238.1	1704.3	3278.0	5191.1	6360.3	6403.2	5455.9	3759.1
75°	326.3	354.3	565.0	844.7	1074.0	2226.4	4294.3	5362.7	5476.4	4650.4	3039.4
77.5°	248.0	268.5	330.0	527.7	688.1	1279.1	2834.2	3516.7	3524.2	2847.3	1629.7
80°	180.9	201.4	220.0	322.6	365.5	598.5	1070.3	1469.3	1428.3	1378.0	882.0
82.5°	108.1	128.7	134.3	175.3	179.0	255.5	374.8	473.6	455.0	606.0	413.9
85°	46.6	65.3	69.0	80.2	76.5	104.4	149.2	124.9	111.9	128.7	89.5
87.5°	11.2	18.6	18.6	20.5	16.8	26.1	28.0	20.5	18.6	22.4	22.4
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°	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3
2.5°	2269.3	2263.7	2265.5	2233.8	2224.5	2215.2	2209.6	2205.9	2202.1	2207.7	2213.3
5°	2286.0	2273.0	2258.1	2211.5	2192.8	2172.3	2157.4	2144.3	2138.7	2138.7	2144.3
7.5°	2299.1	2276.7	2245.0	2183.5	2149.9	2122.0	2097.7	2080.9	2071.6	2071.6	2077.2
10°	2301.0	2269.3	2218.9	2144.3	2099.6	2058.6	2030.6	2011.9	1998.9	1998.9	2002.6
12.5°	2312.1	2269.3	2204.0	2114.5	2058.6	2008.2	1974.7	1946.7	1941.1	1941.1	1944.8
15°	2330.8	2278.6	2194.7	2088.4	2021.3	1963.5	1926.2	1896.3	1885.1	1892.6	1894.5
17.5°	2347.6	2284.2	2177.9	2054.8	1974.7	1911.3	1870.2	1844.1	1829.2	1846.0	1846.0
20°	2358.8	2284.2	2153.7	2011.9	1924.3	1853.4	1814.3	1782.6	1771.4	1791.9	1793.8
22.5°	2375.5	2282.3	2127.6	1969.1	1870.2	1795.6	1756.5	1732.2	1726.7	1749.0	1756.5
25°	2394.2	2286.0	2099.6	1920.6	1810.6	1737.8	1708.0	1696.8	1700.5	1728.5	1737.8
27.5°	2414.7	2293.5	2071.6	1866.5	1745.3	1680.0	1663.3	1668.8	1683.8	1719.2	1730.4
30°	2433.4	2295.4	2032.5	1803.1	1670.7	1609.2	1616.6	1640.9	1663.3	1698.7	1711.7
32.5°	2457.6	2297.2	1991.4	1734.1	1590.5	1545.8	1579.3	1618.5	1640.9	1674.4	1689.4
35°	2517.3	2328.9	1959.7	1667.0	1515.9	1491.7	1547.6	1598.0	1611.0	1640.9	1653.9
37.5°	2586.3	2381.1	1943.0	1598.0	1443.2	1437.6	1508.5	1558.8	1562.6	1581.2	1594.3
40°	2629.1	2403.5	1924.3	1540.2	1378.0	1381.7	1454.4	1493.6	1486.1	1499.2	1508.5
42.5°	2672.0	2411.0	1885.1	1491.7	1316.4	1320.2	1376.1	1404.1	1407.8	1435.8	1448.8
45°	2744.7	2431.5	1842.3	1447.0	1260.5	1247.4	1281.0	1318.3	1366.8	1420.9	1435.8
47.5°	2841.7	2474.4	1797.5	1392.9	1206.4	1163.5	1176.6	1241.8	1292.2	1342.5	1351.9
50°	2940.5	2517.3	1756.5	1327.6	1152.3	1074.0	1079.6	1139.3	1180.3	1219.5	1225.1
52.5°	3037.5	2554.6	1721.1	1266.1	1090.8	967.7	990.1	1051.7	1079.6	1098.3	1103.9
55°	3134.5	2586.3	1689.4	1213.9	1020.0	883.8	904.3	962.2	990.1	999.4	1003.2
57.5°	3235.1	2623.5	1665.1	1169.1	939.8	809.3	822.3	863.3	889.4	900.6	896.9
60°	3319.1	2655.2	1652.1	1122.5	859.6	740.3	736.5	773.8	811.1	822.3	818.6
62.5°	3384.3	2675.8	1631.6	1062.8	788.7	671.3	652.6	701.1	740.3	747.7	753.3
65°	3419.7	2677.6	1581.2	986.4	716.0	596.7	583.6	632.1	656.4	663.8	663.8
67.5°	3414.1	2647.8	1482.4	883.8	648.9	529.6	518.4	548.2	583.6	589.2	583.6
70°	3298.5	2524.7	1323.9	775.7	568.7	469.9	449.4	479.2	512.8	492.3	482.9
72.5°	2970.4	2205.9	1090.8	656.4	479.2	395.3	386.0	415.8	417.7	421.4	412.1
75°	2343.8	1642.7	816.7	510.9	387.8	331.9	330.0	324.4	331.9	346.8	335.6
77.5°	1230.7	820.4	441.9	313.3	281.6	266.6	253.6	251.7	274.1	283.4	272.2
80°	667.5	460.6	253.6	188.3	171.5	173.4	190.2	186.5	210.7	216.3	207.0
82.5°	290.9	218.2	124.9	113.7	113.7	111.9	117.5	130.5	156.6	156.6	124.9
85°	63.4	54.1	48.5	55.9	63.4	63.4	63.4	63.4	44.8	24.2	16.8
87.5°	20.5	20.5	20.5	22.4	24.2	24.2	20.5	14.9	9.3	1.9	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)