

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: P800181

Luminaire Tested: **ARCH2-80-740-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11603 lumens
Efficiency: N/A
Efficacy: 137.6 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): 84.3
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

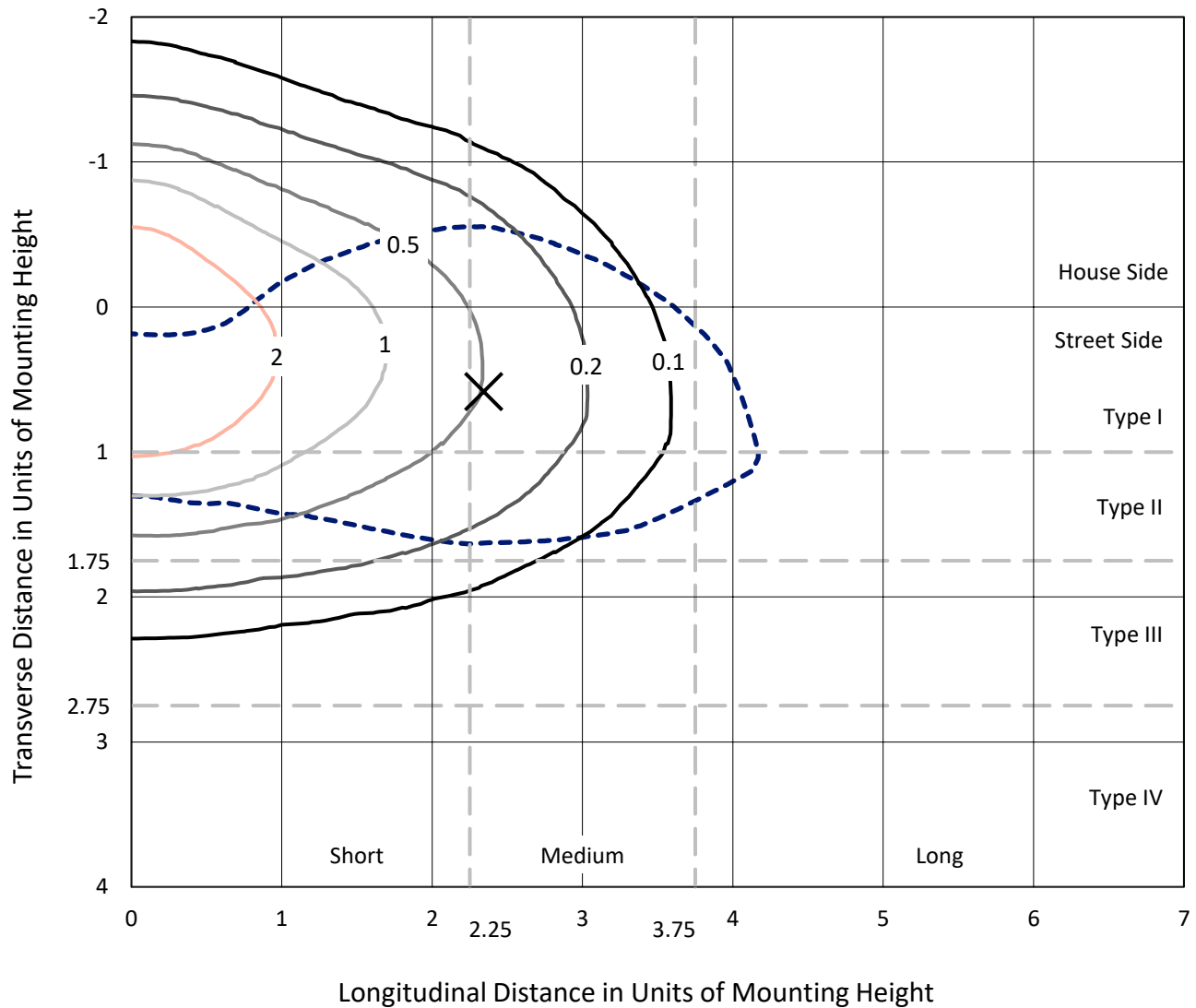


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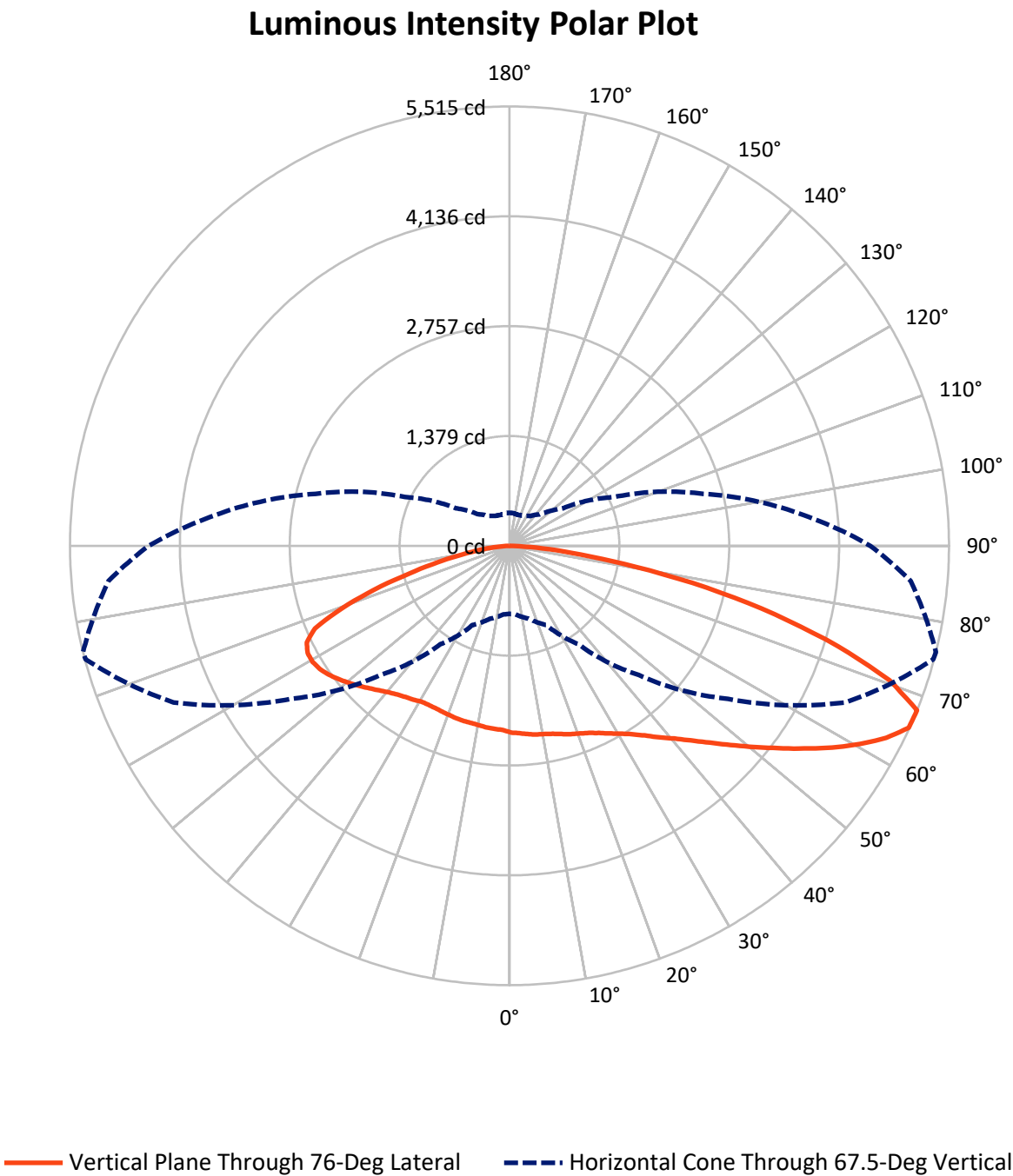
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type II - Medium - N/A

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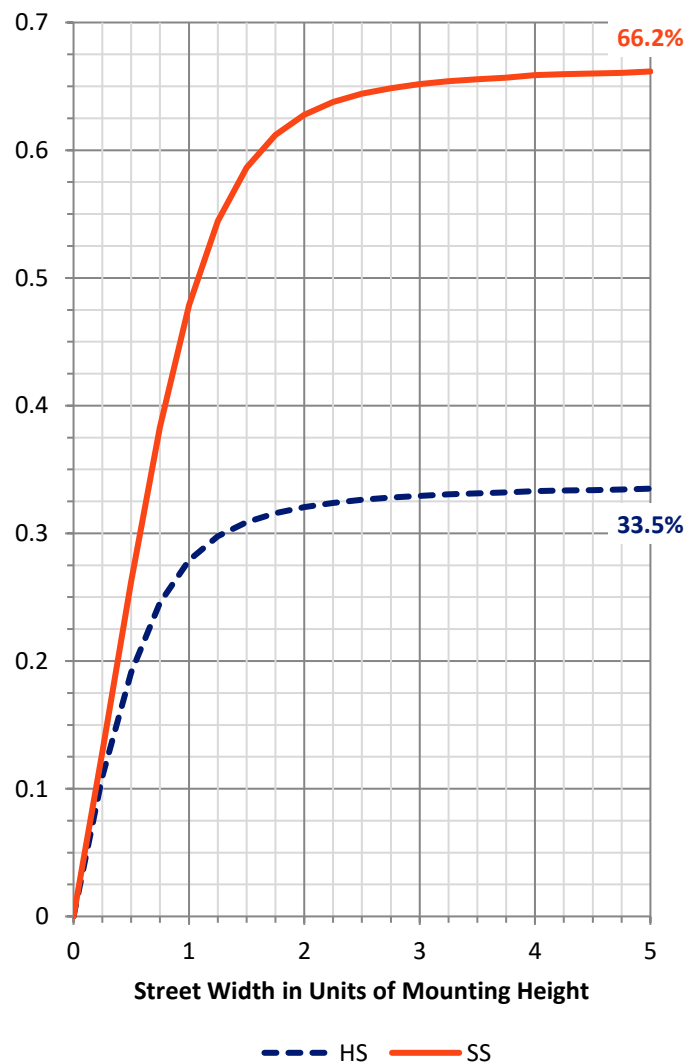
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3920.7	0.0	3920.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	7682.3	0.0	7682.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	11603.0	0.0	11603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	1.9
10°-20°	690.9	6.0
20°-30°	1173.9	10.1
30°-40°	1670.3	14.4
40°-50°	2109.6	18.2
50°-60°	2284.0	19.7
60°-70°	2124.4	18.3
70°-80°	1141.0	9.8
80°-90°	182.8	1.6
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°	11603.0	100.0
0°-180°	11603.0	100.0

Coefficient of Utilization



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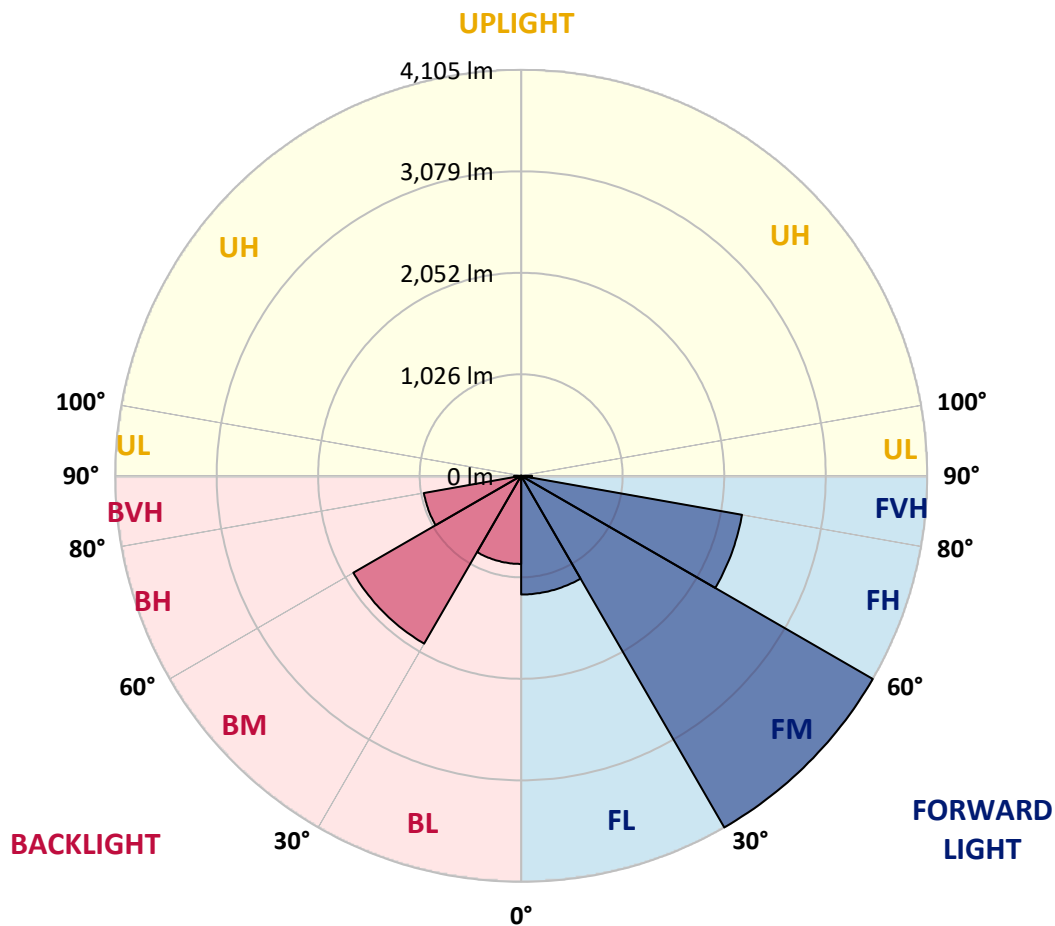
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1199.9	10.3			
FM	(30°-60°)	4104.7	35.4			
FH	(60°-80°)	2267.1	19.5			G2/5000
FVH	(80°-90°)	110.6	1.0			G2/225
BL	(0°-30°)	891.0	7.7	B2/1000		
BM	(30°-60°)	1959.2	16.9	B2/2500		
BH	(60°-80°)	998.3	8.6	B2/1000		G2/1000
BVH	(80°-90°)	72.2	0.6			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°	76°	85°
0°	2343.8	2343.8	2343.8	2343.8	2343.8	2343.8	2343.8	2343.8	2343.8	2343.8	2343.8
2.5°	2414.9	2410.6	2393.3	2395.5	2395.5	2393.3	2367.5	2356.7	2356.7	2354.6	2330.9
5°	2501.0	2494.6	2475.2	2470.9	2462.3	2451.5	2410.6	2386.9	2376.1	2373.9	2341.6
7.5°	2602.3	2593.7	2570.0	2557.0	2535.5	2507.5	2455.8	2419.2	2393.3	2391.2	2345.9
10°	2703.5	2694.9	2666.9	2643.2	2613.1	2567.8	2501.0	2447.2	2406.3	2401.9	2348.1
12.5°	2824.2	2815.6	2781.1	2750.9	2705.7	2645.4	2557.0	2483.8	2427.8	2421.3	2354.6
15°	2951.3	2938.3	2903.9	2869.4	2813.4	2735.8	2630.3	2533.4	2462.3	2451.5	2373.9
17.5°	3056.8	3039.6	3011.6	2977.1	2914.6	2824.2	2703.5	2582.9	2494.6	2486.0	2393.3
20°	3147.3	3134.4	3104.2	3071.9	3005.1	2906.0	2772.5	2632.4	2524.7	2514.0	2408.4
22.5°	3233.5	3216.2	3199.0	3175.3	3102.1	2992.2	2852.2	2692.8	2563.5	2550.6	2427.8
25°	3332.6	3313.2	3306.7	3293.8	3207.6	3095.6	2949.1	2768.2	2617.4	2602.3	2462.3
27.5°	3455.4	3433.8	3420.9	3420.9	3317.5	3201.2	3052.5	2856.5	2679.8	2666.9	2505.3
30°	3584.6	3558.8	3539.4	3539.4	3423.0	3306.7	3153.8	2944.8	2750.9	2735.8	2561.4
32.5°	3698.8	3672.9	3651.4	3649.2	3528.6	3412.3	3259.3	3041.7	2837.1	2817.7	2630.3
35°	3787.1	3763.4	3744.0	3748.3	3634.2	3520.0	3377.8	3171.0	2944.8	2923.3	2720.8
37.5°	3841.0	3832.3	3821.6	3836.6	3731.1	3623.4	3500.6	3295.9	3067.6	3048.2	2832.8
40°	3869.0	3862.5	3905.6	3925.0	3813.0	3716.0	3623.4	3425.2	3201.2	3179.6	2962.0
42.5°	3909.9	3963.7	3981.0	3976.7	3873.3	3787.1	3735.4	3565.2	3358.4	3339.0	3117.1
45°	3763.4	3750.5	3845.3	3897.0	3877.6	3832.3	3841.0	3733.2	3541.5	3522.1	3295.9
47.5°	3567.4	3550.1	3604.0	3731.1	3806.5	3849.6	3935.7	3907.7	3752.6	3735.4	3504.9
50°	3153.8	3177.5	3377.8	3548.0	3696.6	3845.3	4015.4	4095.2	3985.3	3968.1	3728.9
52.5°	2694.9	2718.6	2927.6	3319.6	3563.1	3813.0	4073.6	4282.6	4237.3	4217.9	3968.1
55°	2361.0	2412.7	2649.7	2934.0	3373.5	3711.7	4108.1	4474.3	4508.8	4491.5	4228.7
57.5°	2029.3	2068.0	2246.8	2498.9	3115.0	3535.1	4105.9	4653.1	4793.1	4775.9	4493.7
60°	1639.4	1688.9	1831.1	2102.5	2770.3	3323.9	4045.6	4793.1	5066.7	5053.8	4750.0
62.5°	1372.2	1387.3	1488.6	1723.4	2326.5	3056.8	3909.9	4868.5	5314.4	5305.8	4980.5
65°	1105.1	1107.3	1199.9	1395.9	1897.9	2725.1	3679.4	4840.5	5501.9	5506.2	5146.4
67.5°	853.1	863.8	947.9	1096.5	1507.9	2294.2	3349.8	4650.9	5504.0	5514.8	5051.6
70°	590.3	598.9	726.0	870.3	1165.4	1828.9	2903.9	4149.0	5051.6	5060.2	4528.1
72.5°	415.8	420.1	555.8	695.8	911.2	1378.7	2190.8	3431.7	4306.3	4312.7	3808.6
75°	310.2	314.5	392.1	527.8	698.0	954.3	1497.2	2628.1	3440.3	3440.3	3007.3
77.5°	219.7	221.9	254.2	364.1	465.3	644.1	900.5	1721.2	2524.7	2529.0	2190.8
80°	148.6	150.8	165.9	245.6	290.8	349.0	489.0	902.6	1592.0	1598.4	1391.6
82.5°	77.6	81.9	92.6	124.9	146.5	193.9	252.0	458.8	881.1	898.3	835.8
85°	30.2	30.2	34.5	40.9	53.9	75.4	116.3	174.5	398.5	411.5	368.4
87.5°	10.8	10.8	12.9	12.9	15.1	17.2	19.4	25.9	45.2	45.2	43.1
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°	2343.8	2343.8	2343.8	2343.8	2343.8	2343.8	2343.8	2343.8	2343.8	2343.8	2343.8
2.5°	2322.2	2322.2	2311.5	2315.8	2313.6	2309.3	2305.0	2311.5	2305.0	2289.9	2287.8
5°	2326.5	2322.2	2305.0	2302.9	2296.4	2287.8	2277.0	2281.3	2270.5	2257.6	2255.5
7.5°	2328.7	2320.1	2296.4	2287.8	2274.8	2257.6	2240.4	2240.4	2225.3	2212.4	2210.2
10°	2324.4	2313.6	2281.3	2264.1	2240.4	2214.5	2190.8	2184.4	2167.1	2152.1	2152.1
12.5°	2326.5	2311.5	2270.5	2242.5	2210.2	2177.9	2147.7	2139.1	2124.1	2109.0	2106.8
15°	2339.5	2317.9	2266.2	2229.6	2182.2	2145.6	2113.3	2106.8	2093.9	2083.1	2083.1
17.5°	2352.4	2324.4	2259.8	2208.1	2149.9	2109.0	2078.8	2078.8	2070.2	2063.7	2063.7
20°	2358.9	2326.5	2246.8	2177.9	2111.1	2068.0	2040.0	2044.3	2042.2	2040.0	2040.0
22.5°	2373.9	2330.9	2236.1	2149.9	2070.2	2025.0	1999.1	2005.6	2003.4	2003.4	2005.6
25°	2397.6	2341.6	2227.5	2124.1	2031.4	1981.9	1953.9	1958.2	1958.2	1958.2	1958.2
27.5°	2429.9	2363.2	2225.3	2100.4	1992.6	1936.6	1902.2	1902.2	1893.6	1895.7	1897.9
30°	2479.5	2404.1	2229.6	2078.8	1951.7	1880.6	1839.7	1833.2	1831.1	1835.4	1837.5
32.5°	2539.8	2460.1	2255.5	2063.7	1908.6	1818.2	1766.5	1764.3	1757.8	1757.8	1757.8
35°	2615.2	2514.0	2279.2	2061.6	1865.5	1751.4	1695.4	1688.9	1673.8	1667.4	1667.4
37.5°	2712.2	2598.0	2307.2	2046.5	1828.9	1686.7	1620.0	1598.4	1581.2	1579.0	1579.0
40°	2830.6	2692.8	2348.1	2029.3	1790.1	1620.0	1531.6	1495.0	1497.2	1505.8	1505.8
42.5°	2970.7	2809.1	2399.8	2020.6	1734.1	1551.0	1428.2	1385.2	1400.2	1408.9	1411.0
45°	3134.4	2947.0	2458.0	2009.9	1682.4	1473.5	1318.4	1264.5	1271.0	1273.1	1275.3
47.5°	3323.9	3099.9	2518.3	2001.3	1624.3	1376.5	1197.7	1126.7	1124.5	1111.6	1115.9
50°	3522.1	3261.5	2580.7	1986.2	1553.2	1262.4	1070.6	986.6	969.4	950.0	952.2
52.5°	3733.2	3427.3	2638.9	1962.5	1464.9	1146.0	950.0	859.5	825.1	803.5	807.8
55°	3965.9	3597.5	2694.9	1925.9	1372.2	1029.7	842.3	749.7	706.6	689.3	691.5
57.5°	4179.2	3761.3	2735.8	1880.6	1271.0	924.2	747.5	657.0	629.0	626.9	629.0
60°	4386.0	3899.1	2753.1	1818.2	1167.6	827.2	659.2	590.3	570.9	581.6	583.8
62.5°	4560.5	3987.4	2744.5	1734.1	1062.0	734.6	588.1	538.6	525.6	547.2	549.3
65°	4661.7	4015.4	2684.1	1613.5	947.9	644.1	521.3	467.5	461.0	473.9	480.4
67.5°	4528.1	3841.0	2520.4	1447.6	820.8	560.1	456.7	413.6	402.8	413.6	413.6
70°	4013.3	3328.3	2132.7	1184.8	680.7	478.2	396.4	366.2	357.6	366.2	364.1
72.5°	3343.3	2768.2	1680.3	924.2	536.4	402.8	344.7	316.7	308.1	299.4	295.1
75°	2593.7	2102.5	1219.3	678.6	405.0	323.1	288.7	262.8	241.3	249.9	245.6
77.5°	1900.0	1475.6	863.8	469.6	290.8	249.9	226.2	206.8	191.7	209.0	206.8
80°	1223.6	954.3	577.3	314.5	200.3	174.5	165.9	155.1	170.2	221.9	226.2
82.5°	747.5	605.3	344.7	204.6	131.4	116.3	107.7	107.7	174.5	191.7	193.9
85°	333.9	321.0	187.4	105.6	73.2	66.8	60.3	77.6	71.1	51.7	53.9
87.5°	53.9	56.0	40.9	36.6	28.0	28.0	21.5	15.1	10.8	6.5	6.5
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)