

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: P799349

Luminaire Tested: **ARCH2-110-722-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799349
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: ARCH2-110-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11514 lumens
Efficiency: N/A
Efficacy: 105.2 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): 109.5
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

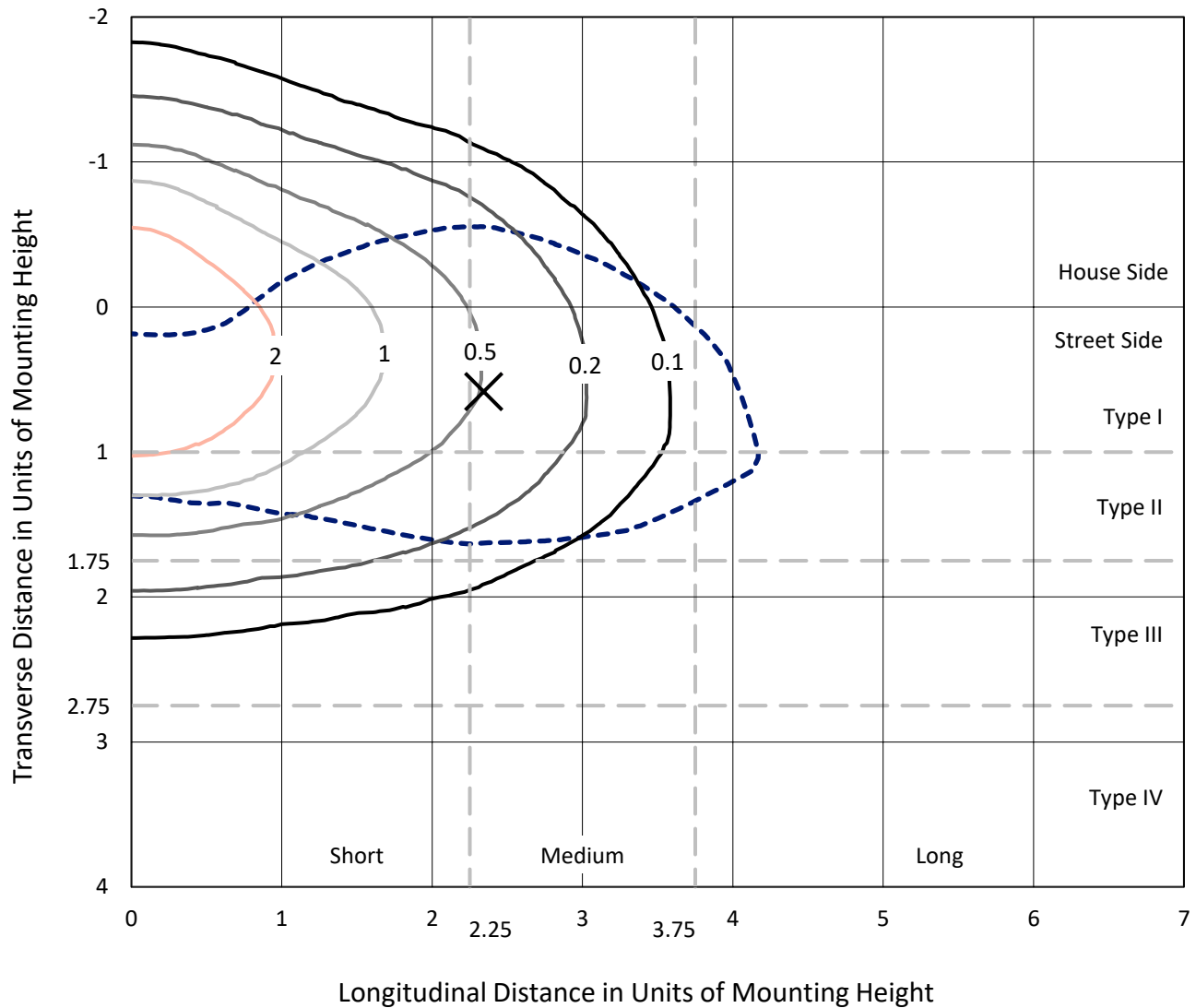


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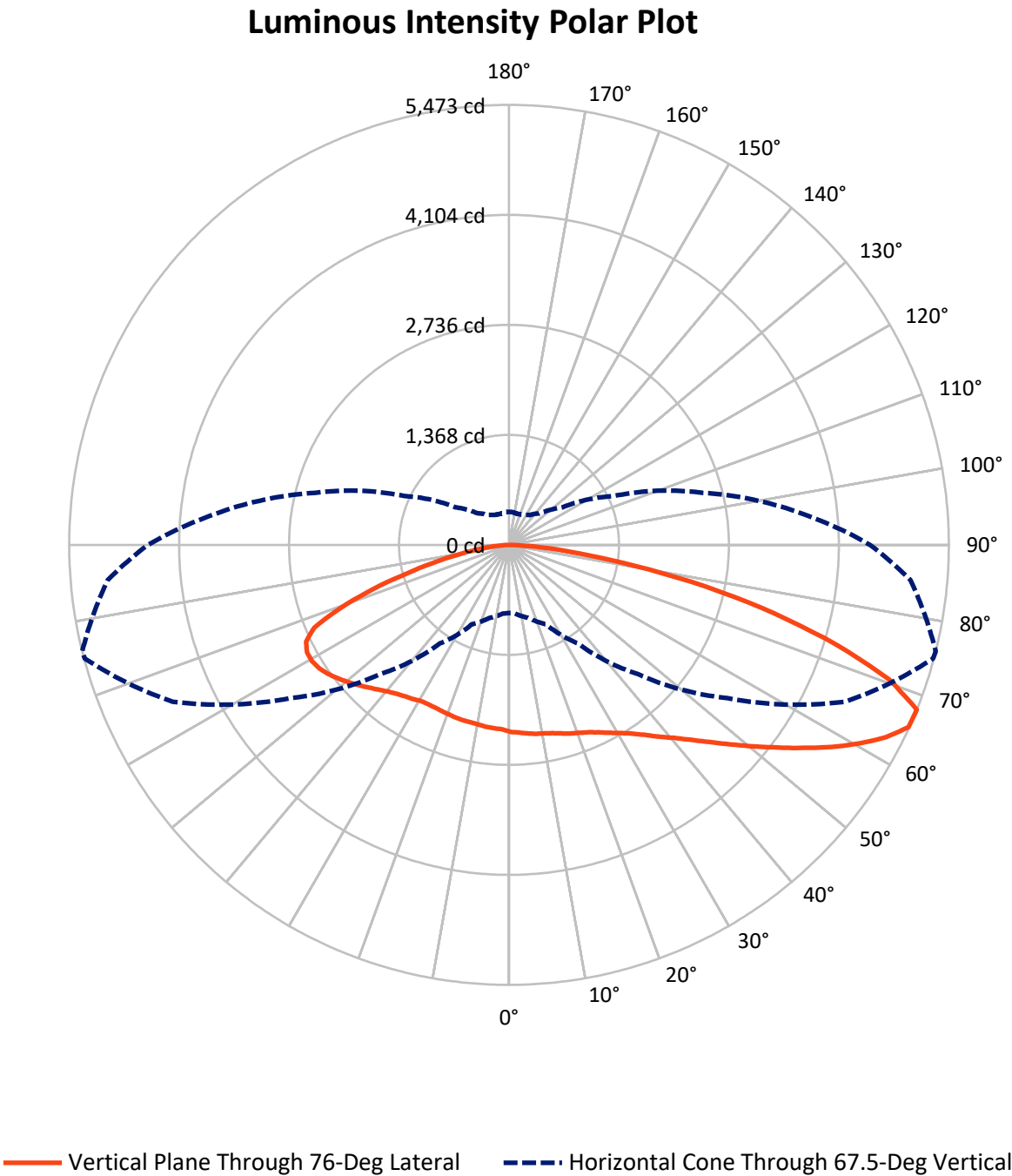
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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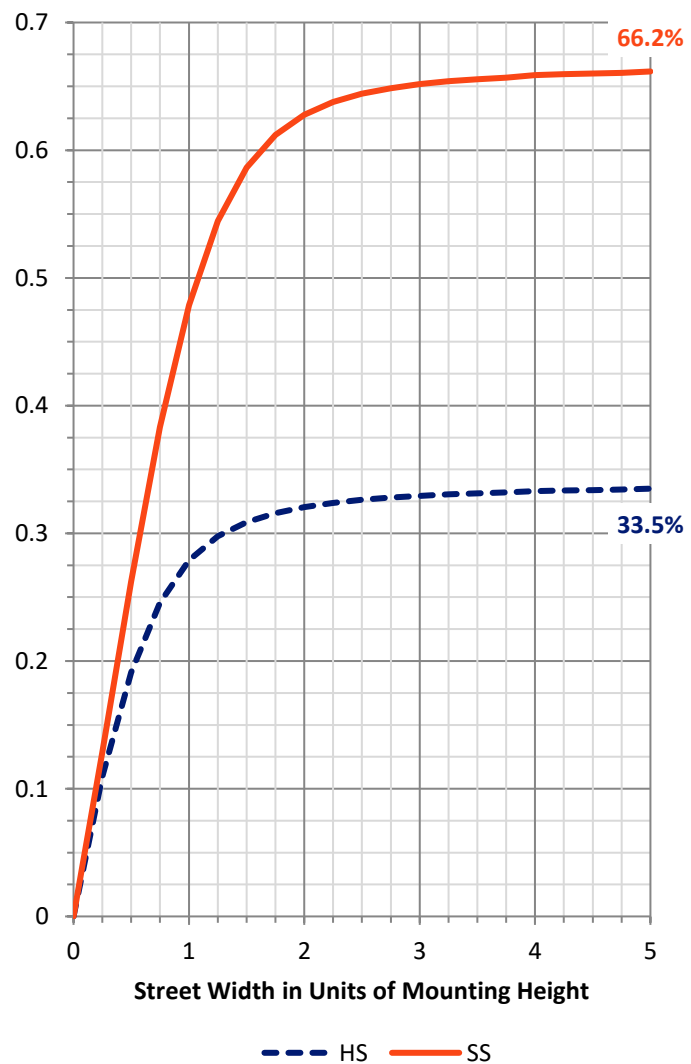
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3890.6	0.0	3890.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	7623.4	0.0	7623.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	11514.0	0.0	11514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	1.9
10°-20°	685.6	6.0
20°-30°	1164.9	10.1
30°-40°	1657.5	14.4
40°-50°	2093.4	18.2
50°-60°	2266.5	19.7
60°-70°	2108.1	18.3
70°-80°	1132.2	9.8
80°-90°	181.4	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°	11514.0	100.0
0°-180°	11514.0	100.0

Coefficient of Utilization



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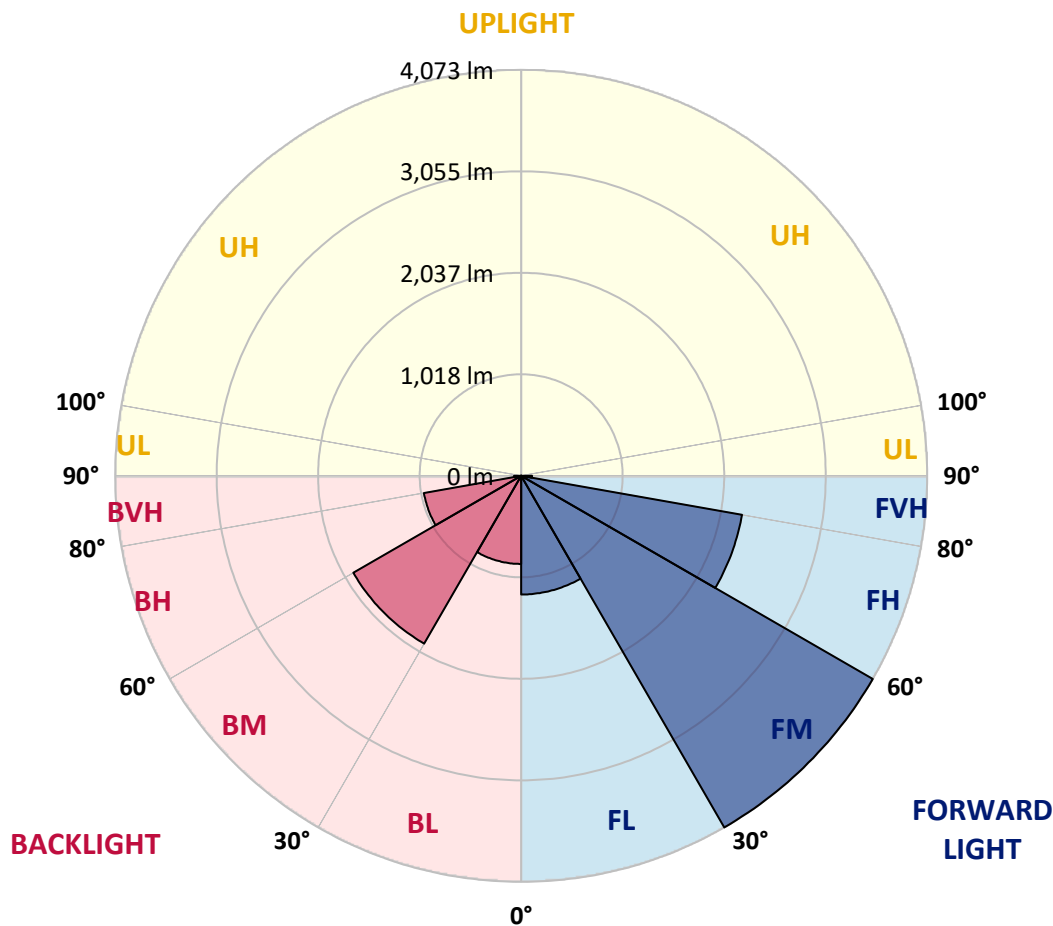
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1190.7	10.3			
FM	(30°-60°)	4073.2	35.4			
FH	(60°-80°)	2249.7	19.5			G2/5000
FVH	(80°-90°)	109.7	1.0			G2/225
BL	(0°-30°)	884.2	7.7	B2/1000		
BM	(30°-60°)	1944.2	16.9	B2/2500		
BH	(60°-80°)	990.6	8.6	B2/1000		G2/1000
BVH	(80°-90°)	71.7	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°	2325.8	2325.8	2325.8	2325.8	2325.8	2325.8	2325.8	2325.8	2325.8	2325.8	2325.8
2.5°	2396.3	2392.1	2375.0	2377.1	2377.1	2375.0	2349.3	2338.6	2338.6	2336.5	2313.0
5°	2481.9	2475.4	2456.2	2451.9	2443.4	2432.7	2392.1	2368.6	2357.9	2355.7	2323.7
7.5°	2582.3	2573.8	2550.3	2537.4	2516.1	2488.3	2437.0	2400.6	2375.0	2372.8	2327.9
10°	2682.8	2674.2	2646.5	2622.9	2593.0	2548.1	2481.9	2428.4	2387.8	2383.5	2330.1
12.5°	2802.5	2794.0	2759.8	2729.8	2684.9	2625.1	2537.4	2464.8	2409.2	2402.8	2336.5
15°	2928.6	2915.8	2881.6	2847.4	2791.8	2714.9	2610.1	2513.9	2443.4	2432.7	2355.7
17.5°	3033.4	3016.3	2988.5	2954.3	2892.3	2802.5	2682.8	2563.1	2475.4	2466.9	2375.0
20°	3123.2	3110.3	3080.4	3048.3	2982.1	2883.7	2751.2	2612.3	2505.4	2494.7	2389.9
22.5°	3208.7	3191.6	3174.5	3150.9	3078.3	2969.2	2830.3	2672.1	2543.8	2531.0	2409.2
25°	3307.0	3287.8	3281.3	3268.5	3183.0	3071.9	2926.5	2746.9	2597.3	2582.3	2443.4
27.5°	3428.8	3407.5	3394.6	3394.6	3292.0	3176.6	3029.1	2834.6	2659.3	2646.5	2486.1
30°	3557.1	3531.5	3512.2	3512.2	3396.8	3281.3	3129.6	2922.2	2729.8	2714.9	2541.7
32.5°	3670.4	3644.8	3623.4	3621.2	3501.5	3386.1	3234.3	3018.4	2815.3	2796.1	2610.1
35°	3758.1	3734.5	3715.3	3719.6	3606.3	3493.0	3351.9	3146.7	2922.2	2900.8	2699.9
37.5°	3811.5	3802.9	3792.3	3807.2	3702.5	3595.6	3473.7	3270.7	3044.1	3024.8	2811.1
40°	3839.3	3832.9	3875.6	3894.9	3783.7	3687.5	3595.6	3398.9	3176.6	3155.2	2939.3
42.5°	3879.9	3933.3	3950.4	3946.2	3843.6	3758.1	3706.7	3537.9	3332.7	3313.4	3093.2
45°	3734.5	3721.7	3815.8	3867.1	3847.8	3802.9	3811.5	3704.6	3514.4	3495.1	3270.7
47.5°	3540.0	3522.9	3576.3	3702.5	3777.3	3820.0	3905.6	3877.8	3723.8	3706.7	3478.0
50°	3129.6	3153.1	3351.9	3520.8	3668.3	3815.8	3984.6	4063.7	3954.7	3937.6	3700.3
52.5°	2674.2	2697.8	2905.1	3294.2	3535.7	3783.7	4042.4	4249.7	4204.8	4185.6	3937.6
55°	2342.9	2394.2	2629.4	2911.5	3347.6	3683.2	4076.6	4440.0	4474.2	4457.1	4196.3
57.5°	2013.7	2052.2	2229.6	2479.7	3091.1	3507.9	4074.4	4617.4	4756.4	4739.3	4459.2
60°	1626.8	1675.9	1817.0	2086.4	2749.1	3298.4	4014.6	4756.4	5027.8	5015.0	4713.6
62.5°	1361.7	1376.7	1477.1	1710.1	2308.7	3033.4	3879.9	4831.2	5273.7	5265.1	4942.3
65°	1096.6	1098.8	1190.7	1385.2	1883.3	2704.2	3651.2	4803.4	5459.7	5463.9	5106.9
67.5°	846.5	857.2	940.6	1088.1	1496.4	2276.6	3324.1	4615.3	5461.8	5472.5	5012.9
70°	585.7	594.3	720.4	863.6	1156.5	1814.9	2881.6	4117.2	5012.9	5021.4	4493.4
72.5°	412.6	416.8	551.5	690.5	904.2	1368.1	2174.0	3405.3	4273.2	4279.6	3779.4
75°	307.8	312.1	389.1	523.7	692.6	947.0	1485.7	2608.0	3413.9	3413.9	2984.2
77.5°	218.0	220.2	252.2	361.3	461.7	639.2	893.6	1708.0	2505.4	2509.6	2174.0
80°	147.5	149.6	164.6	243.7	288.6	346.3	485.3	895.7	1579.8	1586.2	1380.9
82.5°	77.0	81.2	91.9	124.0	145.4	192.4	250.1	455.3	874.3	891.4	829.4
85°	29.9	29.9	34.2	40.6	53.4	74.8	115.4	173.2	395.5	408.3	365.5
87.5°	10.7	10.7	12.8	12.8	15.0	17.1	19.2	25.7	44.9	44.9	42.8
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°	2325.8	2325.8	2325.8	2325.8	2325.8	2325.8	2325.8	2325.8	2325.8	2325.8	2325.8
2.5°	2304.4	2304.4	2293.7	2298.0	2295.9	2291.6	2287.3	2293.7	2287.3	2272.4	2270.2
5°	2308.7	2304.4	2287.3	2285.2	2278.8	2270.2	2259.5	2263.8	2253.1	2240.3	2238.2
7.5°	2310.8	2302.3	2278.8	2270.2	2257.4	2240.3	2223.2	2223.2	2208.2	2195.4	2193.3
10°	2306.6	2295.9	2263.8	2246.7	2223.2	2197.5	2174.0	2167.6	2150.5	2135.5	2135.5
12.5°	2308.7	2293.7	2253.1	2225.3	2193.3	2161.2	2131.3	2122.7	2107.8	2092.8	2090.7
15°	2321.5	2300.2	2248.8	2212.5	2165.5	2129.1	2097.1	2090.7	2077.8	2067.1	2067.1
17.5°	2334.4	2306.6	2242.4	2191.1	2133.4	2092.8	2062.9	2062.9	2054.3	2047.9	2047.9
20°	2340.8	2308.7	2229.6	2161.2	2094.9	2052.2	2024.4	2028.7	2026.5	2024.4	2024.4
22.5°	2355.7	2313.0	2218.9	2133.4	2054.3	2009.4	1983.8	1990.2	1988.0	1988.0	1990.2
25°	2379.2	2323.7	2210.4	2107.8	2015.8	1966.7	1938.9	1943.2	1943.2	1943.2	1943.2
27.5°	2411.3	2345.0	2208.2	2084.2	1977.4	1921.8	1887.6	1887.6	1879.0	1881.2	1883.3
30°	2460.5	2385.7	2212.5	2062.9	1936.7	1866.2	1825.6	1819.2	1817.0	1821.3	1823.4
32.5°	2520.3	2441.2	2238.2	2047.9	1894.0	1804.2	1752.9	1750.8	1744.4	1744.4	1744.4
35°	2595.2	2494.7	2261.7	2045.8	1851.2	1737.9	1682.4	1675.9	1661.0	1654.6	1654.6
37.5°	2691.3	2578.0	2289.5	2030.8	1814.9	1673.8	1607.5	1586.2	1569.1	1566.9	1566.9
40°	2808.9	2672.1	2330.1	2013.7	1776.4	1607.5	1519.9	1483.6	1485.7	1494.2	1494.2
42.5°	2947.9	2787.5	2381.4	2005.1	1720.8	1539.1	1417.3	1374.5	1389.5	1398.0	1400.2
45°	3110.3	2924.4	2439.1	1994.5	1669.5	1462.2	1308.3	1254.8	1261.2	1263.4	1265.5
47.5°	3298.4	3076.1	2499.0	1985.9	1611.8	1366.0	1188.6	1118.0	1115.9	1103.0	1107.3
50°	3495.1	3236.5	2560.9	1970.9	1541.3	1252.7	1062.4	979.1	962.0	942.7	944.9
52.5°	3704.6	3401.1	2618.7	1947.4	1453.6	1137.2	942.7	852.9	818.7	797.4	801.6
55°	3935.5	3569.9	2674.2	1911.1	1361.7	1021.8	835.8	743.9	701.2	684.1	686.2
57.5°	4147.1	3732.4	2714.9	1866.2	1261.2	917.1	741.8	652.0	624.2	622.1	624.2
60°	4352.3	3869.2	2732.0	1804.2	1158.6	820.9	654.1	585.7	566.5	577.2	579.3
62.5°	4525.5	3956.9	2723.4	1720.8	1053.9	729.0	583.6	534.4	521.6	543.0	545.1
65°	4626.0	3984.6	2663.6	1601.1	940.6	639.2	517.3	463.9	457.5	470.3	476.7
67.5°	4493.4	3811.5	2501.1	1436.5	814.5	555.8	453.2	410.4	399.7	410.4	410.4
70°	3982.5	3302.7	2116.3	1175.7	675.5	474.6	393.3	363.4	354.9	363.4	361.3
72.5°	3317.7	2746.9	1667.4	917.1	532.3	399.7	342.0	314.2	305.7	297.1	292.9
75°	2573.8	2086.4	1209.9	673.4	401.9	320.7	286.4	260.8	239.4	248.0	243.7
77.5°	1885.4	1464.3	857.2	466.0	288.6	248.0	224.5	205.2	190.3	207.4	205.2
80°	1214.2	947.0	572.9	312.1	198.8	173.2	164.6	153.9	168.9	220.2	224.5
82.5°	741.8	600.7	342.0	203.1	130.4	115.4	106.9	106.9	173.2	190.3	192.4
85°	331.3	318.5	186.0	104.7	72.7	66.3	59.9	77.0	70.5	51.3	53.4
87.5°	53.4	55.6	40.6	36.3	27.8	27.8	21.4	15.0	10.7	6.4	6.4
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)