

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: P835876

Luminaire Tested: **ARCH3-110-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10237 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 111.9
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

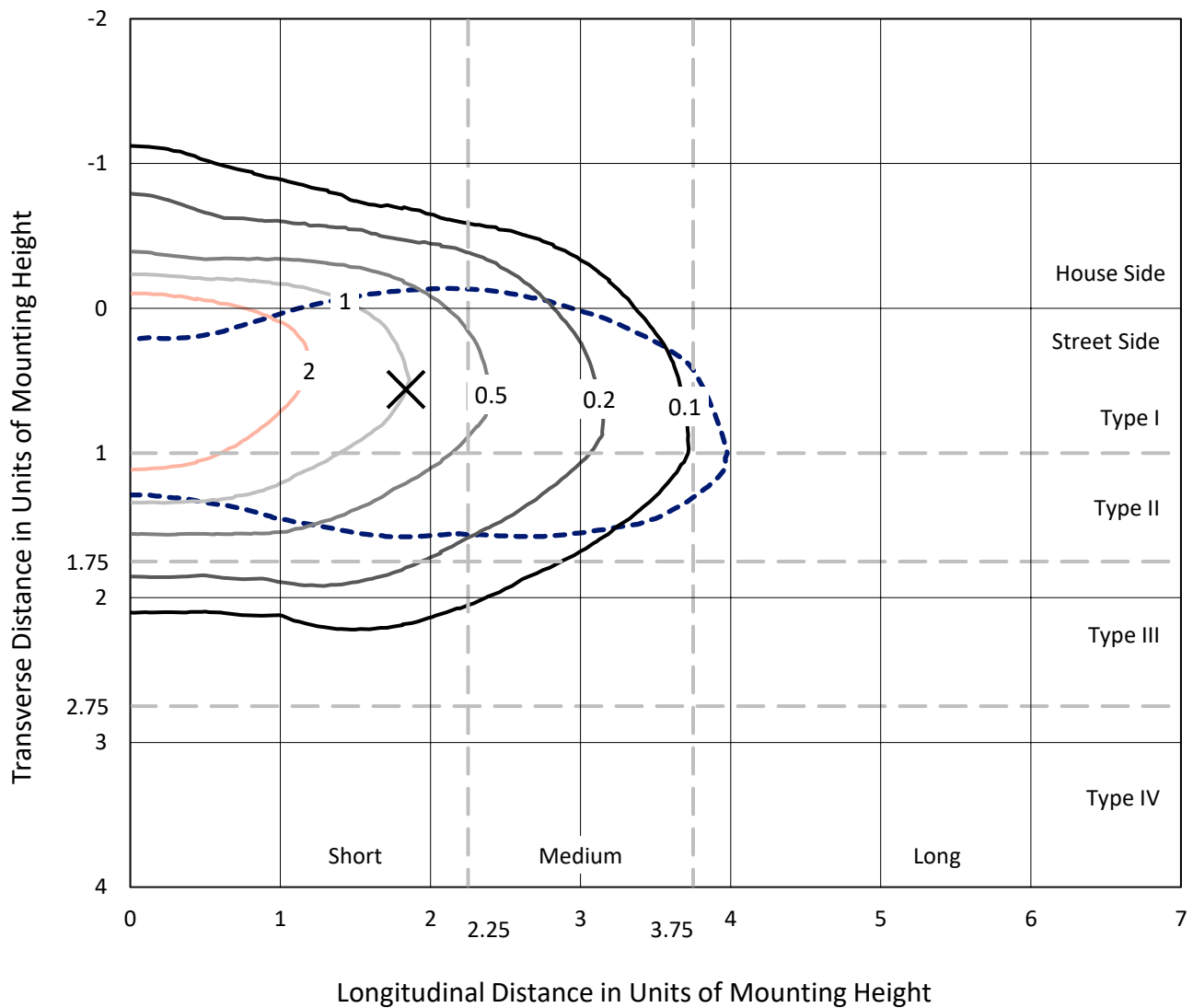


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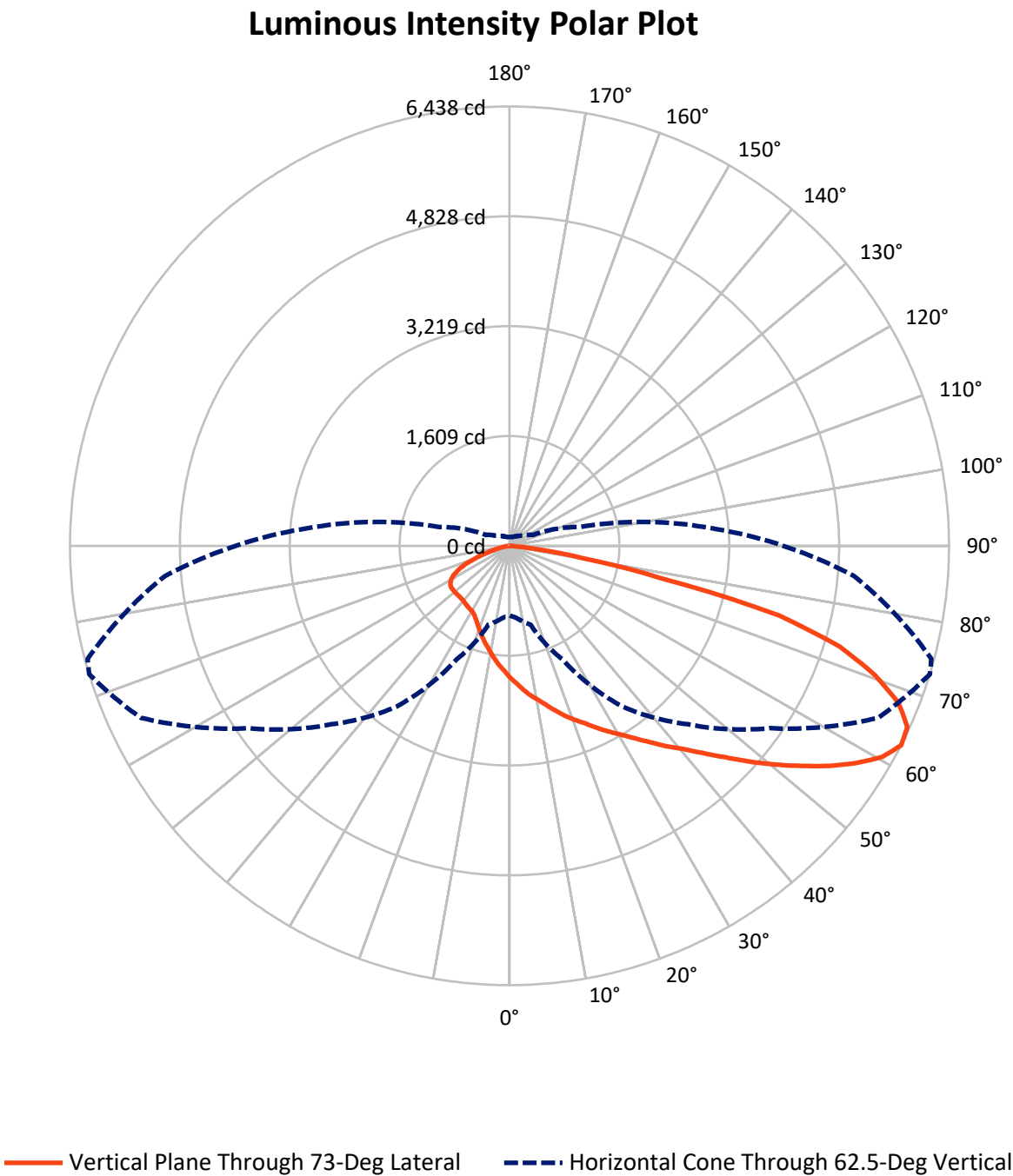
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type II - Short - N/A

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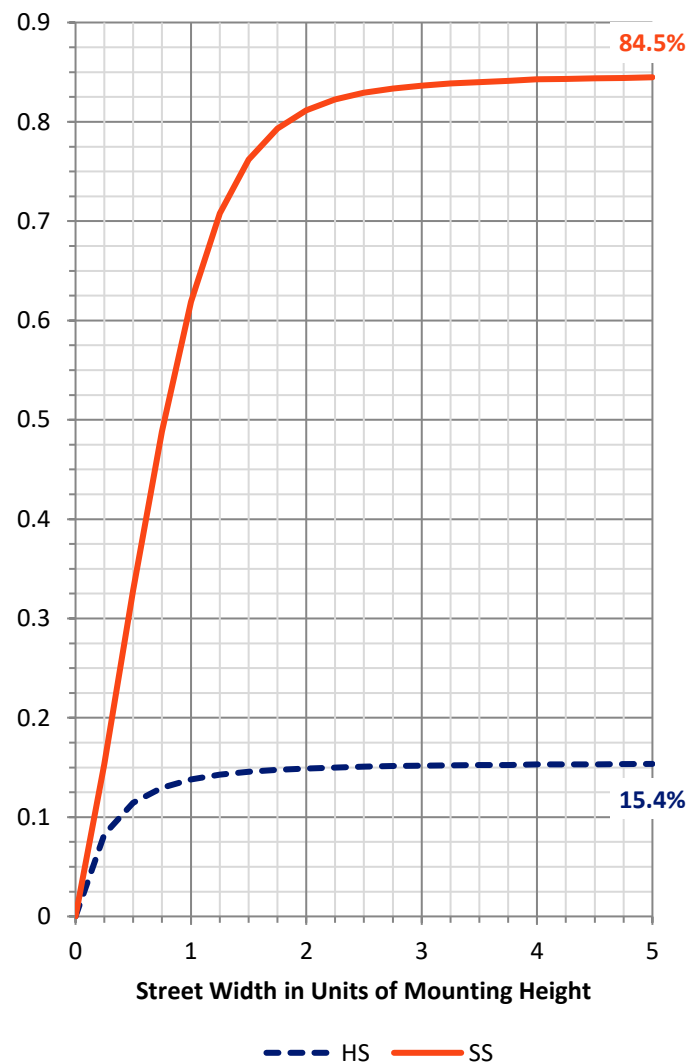
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1586.9	0.0	1586.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	8650.1	0.0	8650.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	10237.0	0.0	10237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	1.8
10°-20°	565.1	5.5
20°-30°	940.6	9.2
30°-40°	1419.2	13.9
40°-50°	1983.6	19.4
50°-60°	2191.0	21.4
60°-70°	1908.7	18.6
70°-80°	964.2	9.4
80°-90°	77.4	0.8
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°	10237.0	100.0
0°-180°	10237.0	100.0

Coefficient of Utilization



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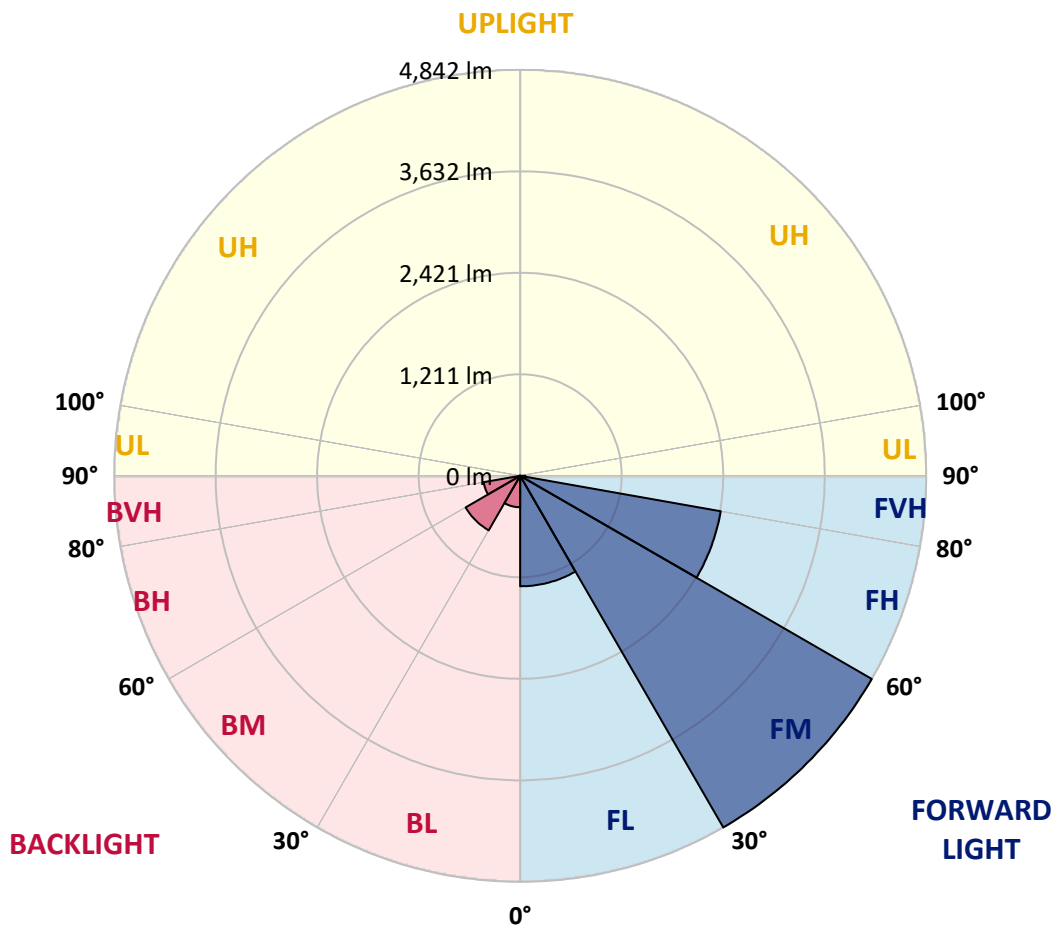
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1317.8	12.9			
FM	(30°-60°)	4842.5	47.3			
FH	(60°-80°)	2429.9	23.7			G2/5000
FVH	(80°-90°)	59.9	0.6			G1/100
BL	(0°-30°)	375.1	3.7	B1/500		
BM	(30°-60°)	751.4	7.3	B1/1000		
BH	(60°-80°)	442.9	4.3	B1/500		G1/500
BVH	(80°-90°)	17.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1938.4	1938.4	1938.4	1938.4	1938.4	1938.4	1938.4	1938.4	1938.4	1938.4	1938.4
2.5°	2206.1	2230.6	2217.2	2226.1	2181.5	2152.5	2119.1	2054.4	2018.7	2014.2	1971.9
5°	2529.5	2556.3	2534.0	2527.3	2449.2	2382.3	2306.4	2192.7	2116.8	2103.5	2009.8
7.5°	2852.9	2877.5	2850.7	2830.6	2725.8	2607.6	2496.0	2328.8	2210.5	2188.2	2041.0
10°	3080.5	3102.8	3082.7	3062.6	2953.3	2832.9	2674.5	2455.9	2295.3	2259.6	2061.1
12.5°	3252.2	3265.6	3256.7	3238.8	3136.2	3006.9	2855.2	2598.7	2391.2	2346.6	2092.3
15°	3392.8	3415.1	3403.9	3390.5	3292.4	3163.0	3018.0	2748.1	2502.7	2447.0	2139.2
17.5°	3486.4	3502.1	3504.3	3504.3	3417.3	3290.1	3149.6	2884.2	2614.3	2542.9	2183.8
20°	3528.8	3546.7	3557.8	3575.7	3504.3	3395.0	3252.2	3000.2	2719.1	2638.8	2226.1
22.5°	3548.9	3564.5	3593.5	3633.7	3575.7	3484.2	3352.6	3107.2	2823.9	2739.2	2275.2
25°	3564.5	3584.6	3627.0	3702.8	3662.7	3584.6	3470.8	3229.9	2948.9	2861.9	2346.6
27.5°	3606.9	3631.4	3671.6	3763.0	3714.0	3676.0	3595.7	3361.5	3080.5	2991.2	2433.6
30°	3754.1	3774.2	3772.0	3830.0	3769.7	3758.6	3702.8	3488.7	3207.6	3118.4	2536.2
32.5°	4021.8	4041.9	3992.8	3970.5	3838.9	3841.1	3818.8	3624.7	3359.3	3267.8	2654.4
35°	4309.5	4331.8	4267.2	4229.2	4008.4	3943.7	3954.9	3794.3	3528.8	3437.4	2801.6
37.5°	4566.1	4592.8	4537.1	4481.3	4258.2	4108.8	4106.5	3983.9	3722.9	3629.2	2964.5
40°	4706.6	4737.8	4771.3	4740.0	4505.8	4340.8	4269.4	4177.9	3914.7	3818.8	3140.7
42.5°	4773.5	4860.5	4920.7	4900.6	4708.8	4541.5	4456.8	4380.9	4148.9	4055.2	3350.4
45°	4586.1	4588.4	4715.5	4824.8	4789.1	4677.6	4662.0	4608.4	4416.6	4327.4	3586.8
47.5°	4351.9	4334.1	4423.3	4617.4	4717.7	4746.7	4838.2	4860.5	4722.2	4633.0	3827.7
50°	3789.8	3801.0	4090.9	4369.8	4566.1	4753.4	4963.1	5119.2	5036.7	4951.9	4082.0
52.5°	3082.7	3109.5	3441.8	4055.2	4365.3	4686.5	5036.7	5378.0	5357.9	5277.6	4336.3
55°	2471.5	2513.9	2866.3	3531.1	4108.8	4537.1	5067.9	5614.4	5690.3	5616.7	4586.1
57.5°	1889.3	1933.9	2230.6	2913.2	3780.9	4293.9	5045.6	5821.9	6000.3	5953.5	4815.9
60°	1423.1	1467.7	1657.3	2362.2	3370.4	4021.8	4934.1	5958.0	6279.2	6230.1	4983.2
62.5°	1019.4	1055.1	1195.6	1838.0	2870.8	3698.3	4659.7	5960.2	6437.5	6397.4	5063.5
65°	733.9	733.9	847.6	1311.6	2402.4	3310.2	4244.8	5685.8	6404.1	6392.9	5007.7
67.5°	528.7	533.1	624.6	916.8	1916.1	2839.6	3707.3	5197.3	6145.3	6201.1	4807.0
70°	374.7	385.9	428.3	640.2	1447.7	2241.8	3131.8	4557.1	5679.1	5777.3	4418.8
72.5°	290.0	296.7	325.7	446.1	1057.3	1666.3	2496.0	3843.3	5056.8	5168.3	3890.2
75°	223.1	229.8	252.1	327.9	758.4	1168.8	1773.3	2982.3	4077.5	4276.1	3125.1
77.5°	162.8	171.8	187.4	238.7	441.7	742.8	1075.2	1677.4	2250.7	2344.4	1637.3
80°	75.8	87.0	109.3	153.9	238.7	350.2	381.4	646.9	1081.8	1130.9	887.8
82.5°	42.4	53.5	62.5	93.7	120.5	124.9	129.4	162.8	408.2	450.6	372.5
85°	20.1	26.8	29.0	40.2	40.2	35.7	42.4	31.2	66.9	80.3	78.1
87.5°	0.0	2.2	4.5	11.2	8.9	6.7	6.7	6.7	6.7	8.9	6.7
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°	1938.4	1938.4	1938.4	1938.4	1938.4	1938.4	1938.4	1938.4	1938.4	1938.4	1938.4
2.5°	1951.8	1922.8	1855.9	1797.9	1759.9	1726.5	1681.9	1661.8	1626.1	1632.8	1612.7
5°	1962.9	1909.4	1791.2	1681.9	1601.6	1530.2	1452.1	1407.5	1358.4	1354.0	1338.4
7.5°	1969.6	1887.1	1717.6	1563.7	1441.0	1331.7	1226.8	1168.8	1108.6	1095.2	1081.8
10°	1962.9	1853.6	1641.7	1441.0	1278.1	1142.1	1023.8	950.2	887.8	872.2	858.8
12.5°	1969.6	1835.8	1570.3	1327.2	1133.1	979.2	845.4	769.6	711.6	695.9	687.0
15°	1985.2	1824.6	1510.1	1224.6	1003.8	832.0	700.4	635.7	588.9	573.3	568.8
17.5°	1998.6	1813.5	1445.4	1124.2	874.4	702.6	588.9	535.3	495.2	479.6	475.1
20°	2016.5	1797.9	1380.7	1028.3	760.6	600.0	499.7	452.8	421.6	410.4	408.2
22.5°	2032.1	1786.7	1320.5	932.4	655.8	517.5	432.7	394.8	372.5	361.4	361.4
25°	2072.2	1791.2	1269.2	843.2	577.7	452.8	381.4	352.4	334.6	327.9	327.9
27.5°	2119.1	1809.0	1229.1	767.3	510.8	403.7	345.7	321.2	312.3	303.4	305.6
30°	2186.0	1844.7	1202.3	704.9	461.7	365.8	316.7	298.9	290.0	287.7	287.7
32.5°	2270.8	1902.7	1200.1	664.7	426.0	336.8	296.7	281.1	276.6	274.4	274.4
35°	2371.1	1954.0	1186.7	646.9	403.7	316.7	281.1	269.9	267.7	267.7	267.7
37.5°	2491.6	2038.8	1177.8	622.3	392.6	305.6	269.9	261.0	261.0	261.0	261.0
40°	2616.5	2107.9	1164.4	600.0	388.1	298.9	263.2	252.1	252.1	252.1	252.1
42.5°	2766.0	2208.3	1159.9	588.9	381.4	294.4	254.3	240.9	243.1	243.1	245.4
45°	2946.6	2322.1	1157.7	577.7	379.2	290.0	245.4	229.8	232.0	229.8	229.8
47.5°	3129.5	2453.7	1164.4	571.0	377.0	285.5	238.7	218.6	218.6	216.4	216.4
50°	3321.4	2574.1	1168.8	564.3	372.5	276.6	227.5	209.7	205.2	200.8	203.0
52.5°	3502.1	2685.7	1171.1	553.2	359.1	263.2	218.6	198.5	191.8	185.1	187.4
55°	3682.7	2792.7	1175.5	539.8	341.3	249.8	207.4	187.4	178.4	169.5	169.5
57.5°	3845.6	2886.4	1164.4	506.3	321.2	236.4	196.3	174.0	160.6	151.7	151.7
60°	3957.1	2953.3	1130.9	457.3	294.4	220.8	185.1	160.6	145.0	138.3	138.3
62.5°	4010.6	2964.5	1070.7	377.0	261.0	205.2	171.8	147.2	133.8	129.4	129.4
65°	3959.3	2915.4	977.0	283.3	225.3	187.4	158.4	136.1	122.7	111.5	111.5
67.5°	3780.9	2777.1	847.6	214.1	191.8	169.5	145.0	124.9	109.3	100.4	100.4
70°	3421.8	2489.4	655.8	171.8	162.8	147.2	131.6	111.5	98.1	87.0	87.0
72.5°	2951.1	2110.2	461.7	138.3	138.3	124.9	111.5	98.1	84.8	75.8	75.8
75°	2264.1	1561.4	310.1	111.5	113.8	104.8	91.5	80.3	71.4	64.7	64.7
77.5°	1235.8	771.8	189.6	82.5	84.8	80.3	71.4	64.7	60.2	53.5	53.5
80°	600.0	339.1	109.3	58.0	60.2	58.0	53.5	46.8	46.8	42.4	42.4
82.5°	252.1	127.1	58.0	40.2	40.2	35.7	33.5	33.5	33.5	31.2	31.2
85°	62.5	24.5	24.5	22.3	22.3	22.3	20.1	20.1	20.1	15.6	17.8
87.5°	8.9	8.9	8.9	8.9	8.9	8.9	6.7	2.2	0.0	0.0	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)