

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: P836457

Luminaire Tested: **ARCH3-190-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21041 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.4
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

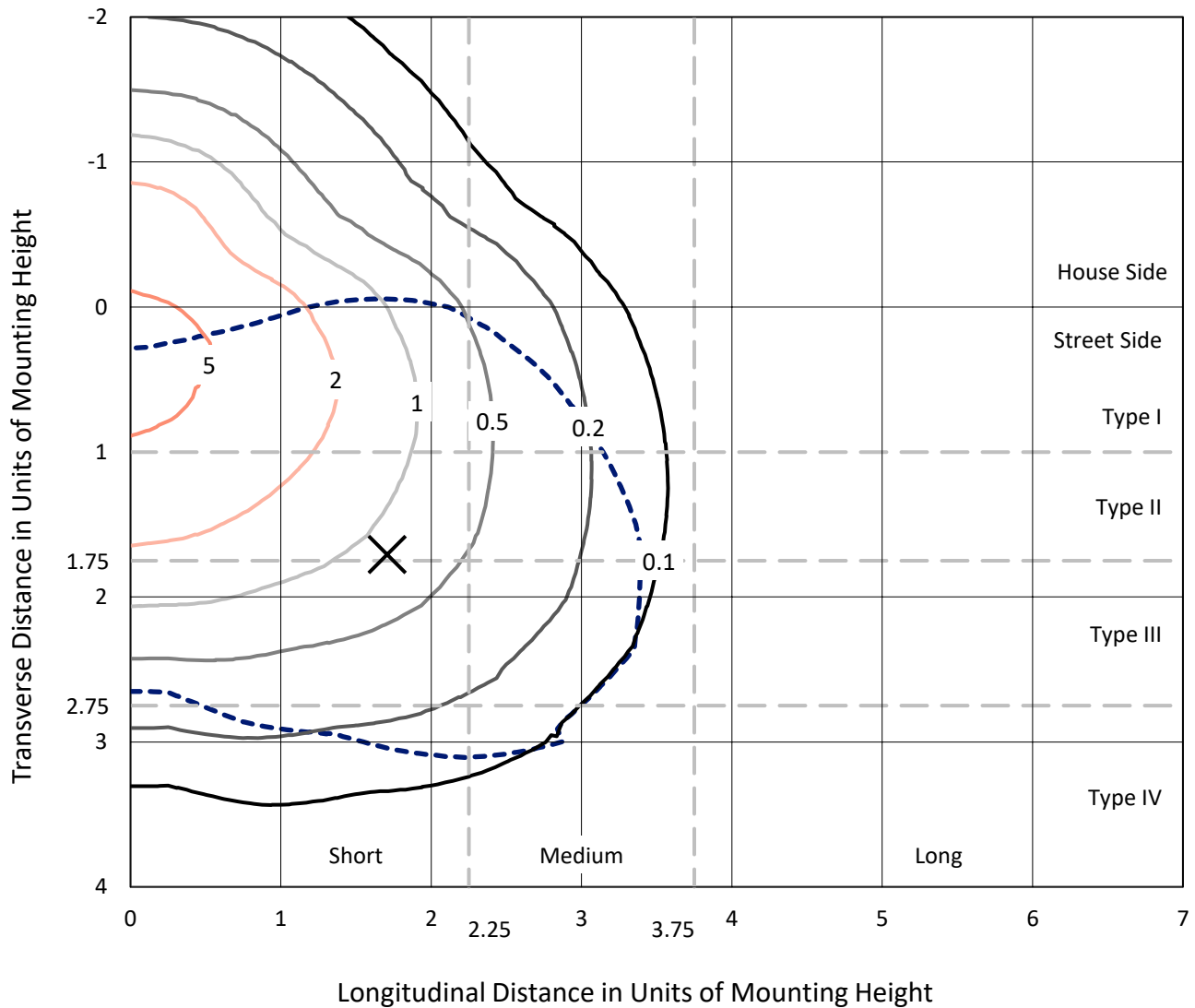


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Iso-Footcandle Lines of Horizontal Illumination

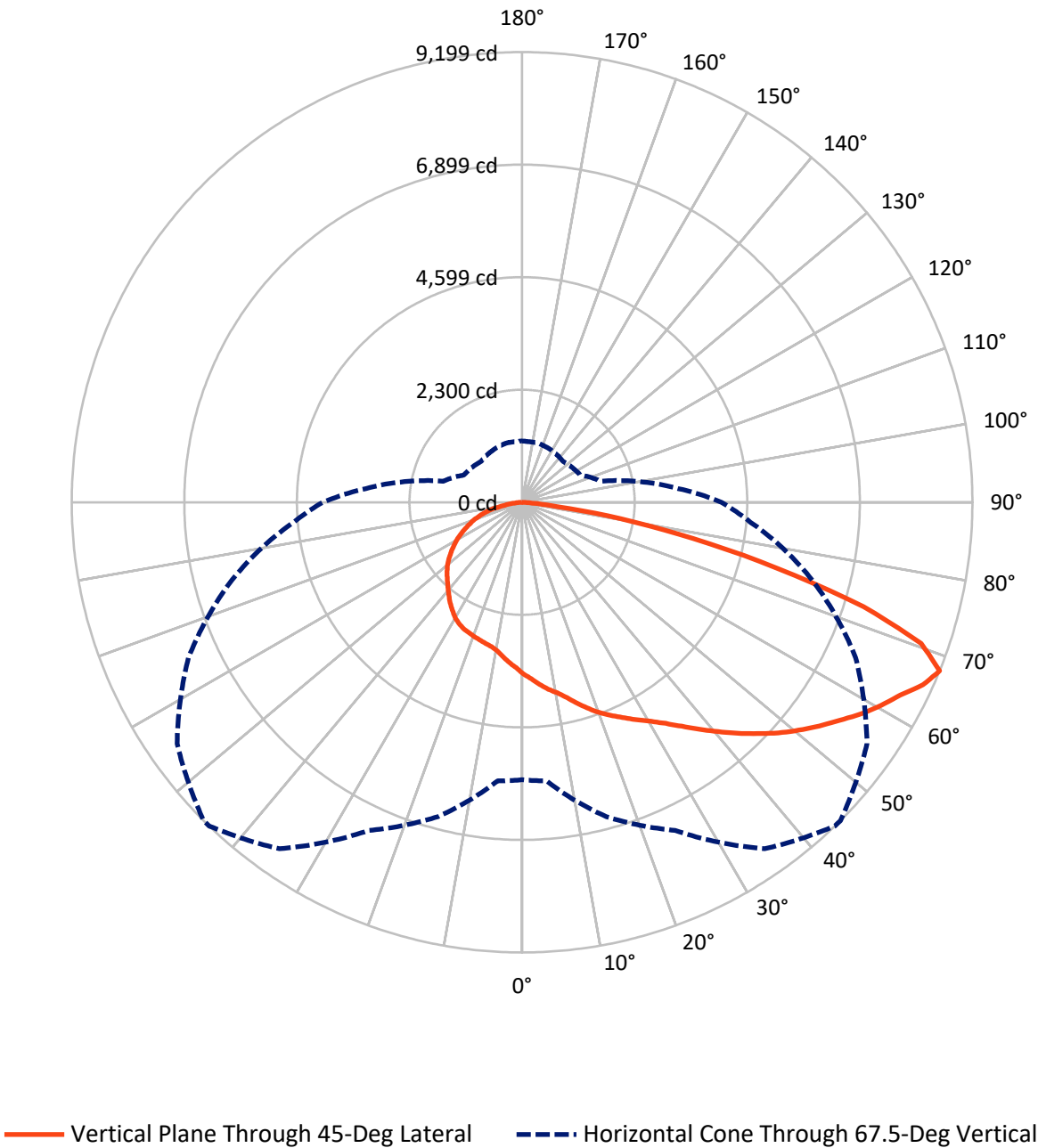
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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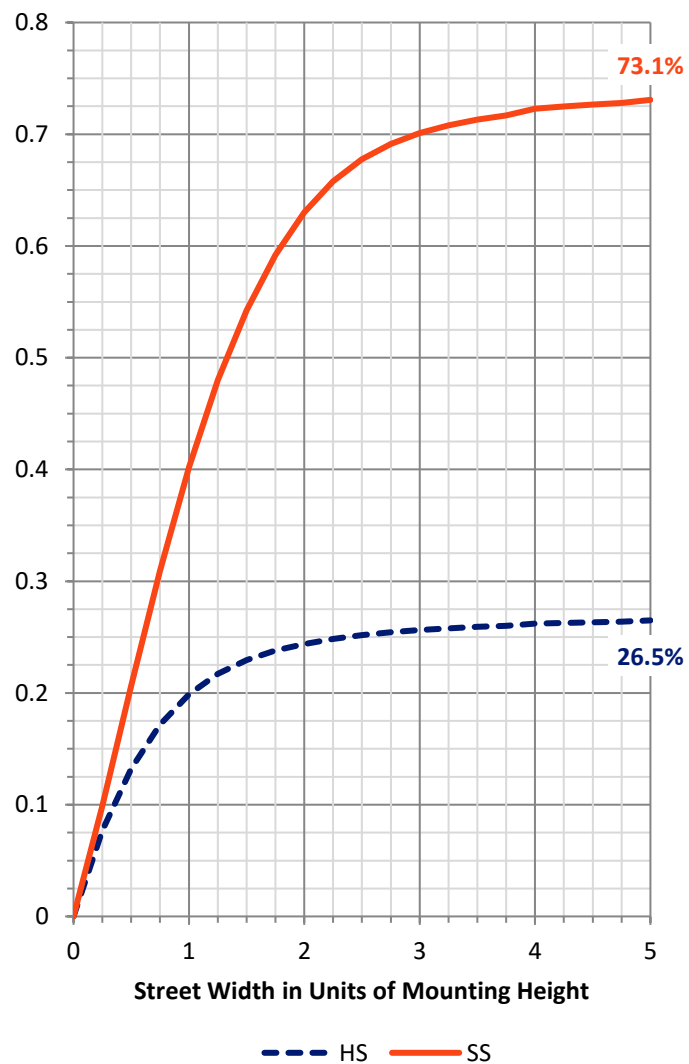
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5621.1	0.0	5621.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	15419.9	0.0	15419.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	21041.0	0.0	21041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	1.6
10°-20°	1037.9	4.9
20°-30°	1791.6	8.5
30°-40°	2641.9	12.6
40°-50°	3579.3	17.0
50°-60°	4374.8	20.8
60°-70°	4512.0	21.4
70°-80°	2471.3	11.7
80°-90°	296.2	1.4
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°	21041.0	100.0
0°-180°	21041.0	100.0

Coefficient of Utilization



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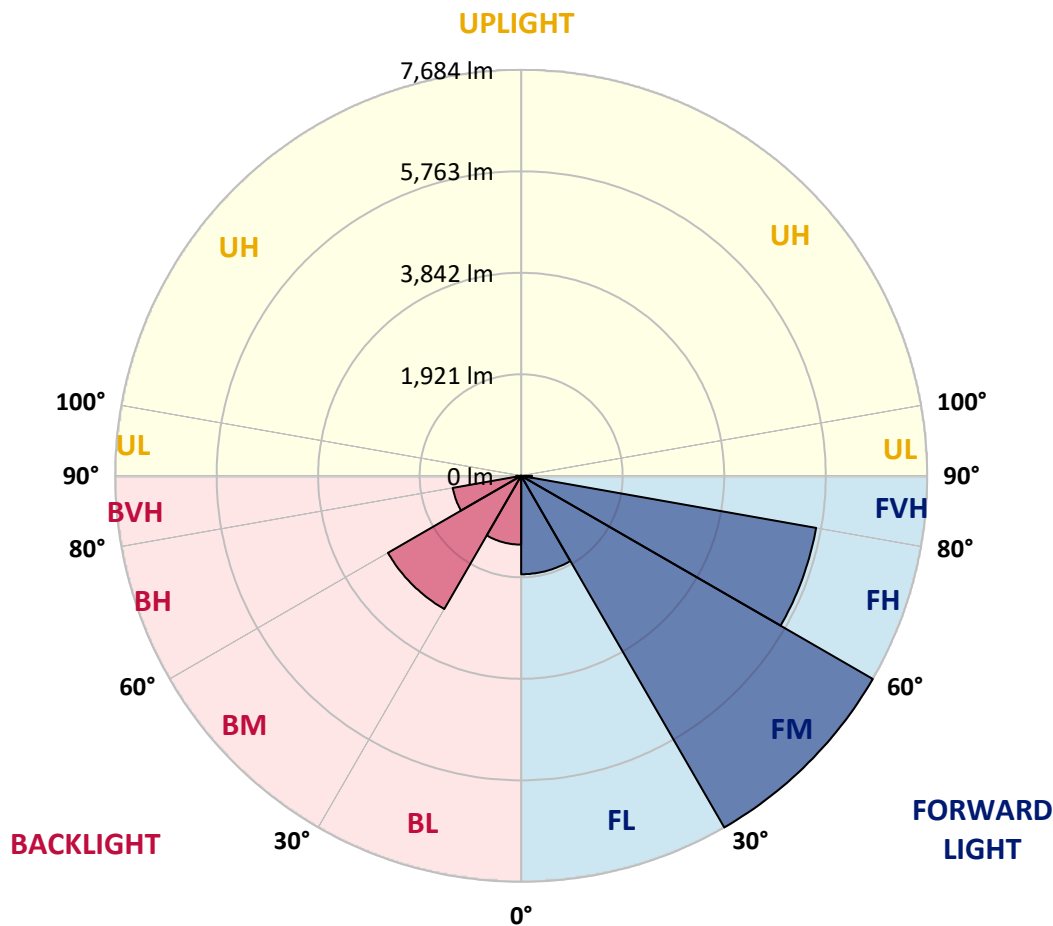
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1862.7	8.9			
FM	(30°-60°)	7684.4	36.5			
FH	(60°-80°)	5668.8	26.9			G3/7500
FVH	(80°-90°)	204.1	1.0			G2/225
BL	(0°-30°)	1302.8	6.2	B3/2500		
BM	(30°-60°)	2911.6	13.8	B3/5000		
BH	(60°-80°)	1314.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	92.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3509.2	3509.2	3509.2	3509.2	3509.2	3509.2	3509.2	3509.2	3509.2	3509.2	3509.2
2.5°	3662.9	3659.7	3666.1	3643.7	3614.9	3611.7	3611.7	3592.5	3570.1	3525.2	3490.0
5°	3835.8	3829.4	3832.6	3800.6	3762.2	3743.0	3739.8	3698.1	3646.9	3576.5	3512.4
7.5°	3995.9	3989.5	3986.3	3951.1	3893.5	3861.4	3858.2	3797.4	3736.6	3627.7	3534.9
10°	4146.4	4140.0	4133.6	4085.6	4015.1	3967.1	3960.7	3883.9	3807.0	3672.5	3554.1
12.5°	4338.5	4325.7	4319.3	4261.7	4159.2	4108.0	4098.4	3995.9	3899.9	3736.6	3592.5
15°	4540.2	4530.6	4521.0	4466.6	4351.3	4284.1	4268.1	4140.0	4008.7	3819.8	3650.1
17.5°	4690.7	4681.1	4681.1	4633.1	4527.4	4450.6	4437.8	4284.1	4120.8	3896.7	3694.9
20°	4783.6	4774.0	4783.6	4754.8	4674.7	4610.7	4597.9	4428.2	4232.9	3967.1	3733.4
22.5°	4850.8	4841.2	4857.2	4844.4	4786.8	4748.4	4738.8	4572.3	4348.1	4040.7	3771.8
25°	4969.3	4969.3	4969.3	4946.9	4892.4	4879.6	4879.6	4735.6	4495.4	4136.8	3829.4
27.5°	5206.2	5193.4	5177.4	5113.4	5020.5	5017.3	5036.5	4902.0	4665.1	4261.7	3899.9
30°	5555.2	5548.8	5488.0	5353.5	5196.6	5180.6	5193.4	5081.4	4847.6	4393.0	3979.9
32.5°	6006.7	5984.3	5859.4	5657.7	5433.6	5359.9	5385.5	5267.1	5039.7	4527.4	4056.8
35°	6326.9	6333.3	6243.6	6061.1	5795.4	5600.1	5619.3	5475.2	5247.9	4677.9	4152.8
37.5°	6695.1	6717.5	6583.0	6445.3	6198.8	5865.8	5885.0	5689.7	5456.0	4866.8	4255.3
40°	7204.2	7159.4	6932.0	6768.7	6496.6	6144.4	6160.4	5929.8	5696.1	5046.1	4373.7
42.5°	7630.0	7550.0	7274.6	7066.5	6739.9	6438.9	6455.0	6189.2	5939.5	5244.6	4505.0
45°	8241.6	8020.7	7623.6	7521.2	6989.7	6727.1	6743.1	6464.6	6195.6	5456.0	4645.9
47.5°	8597.0	8244.8	7991.8	7937.4	7265.0	7024.9	7044.1	6755.9	6471.0	5696.1	4793.2
50°	8574.6	8347.3	8273.6	8139.1	7508.4	7303.4	7322.7	7056.9	6749.5	5933.0	4934.1
52.5°	8427.3	8468.9	8430.5	8206.4	7751.7	7572.4	7594.8	7354.7	7034.5	6154.0	5065.3
55°	8654.6	8683.4	8609.8	8315.2	8020.7	7841.4	7867.0	7668.5	7316.3	6349.3	5177.4
57.5°	8926.8	8824.3	8750.7	8507.3	8299.2	8132.7	8161.5	7988.6	7559.6	6506.2	5263.9
60°	8914.0	8699.5	8773.1	8520.2	8488.1	8401.7	8427.3	8251.2	7745.3	6621.4	5299.1
62.5°	8257.6	8142.3	8513.7	8427.3	8641.8	8641.8	8673.8	8411.3	7857.4	6669.5	5279.9
65°	7117.7	7124.1	7777.3	8135.9	8824.3	8971.6	8997.2	8510.5	7793.3	6528.6	5100.6
67.5°	5670.5	5712.1	6650.3	7396.3	8641.8	9195.7	9198.9	8600.2	7518.0	6131.6	4684.3
70°	4149.6	4181.6	5289.5	6195.6	7780.5	8699.5	8648.2	8347.3	6919.2	5440.0	4034.3
72.5°	2804.8	2833.6	3973.5	4758.0	6384.5	7409.1	7297.0	7377.1	5897.8	4469.8	3243.5
75°	1885.9	1921.1	2827.2	3403.6	4697.1	5625.7	5375.9	5587.2	4562.7	3384.4	2366.2
77.5°	1187.9	1210.3	1796.2	2231.7	3208.3	3829.4	3579.7	3582.9	2628.7	1821.9	1271.1
80°	755.6	762.0	1088.6	1287.1	1857.1	2302.1	2036.4	1655.4	1184.7	967.0	758.8
82.5°	438.7	429.0	650.0	726.8	883.7	874.1	723.6	685.2	518.7	483.5	387.4
85°	176.1	163.3	285.0	265.8	269.0	285.0	211.3	211.3	169.7	131.3	96.1
87.5°	35.2	35.2	38.4	35.2	35.2	38.4	28.8	28.8	25.6	25.6	25.6
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°	3509.2	3509.2	3509.2	3509.2	3509.2	3509.2	3509.2	3509.2	3509.2	3509.2	3509.2
2.5°	3483.6	3477.2	3461.2	3419.6	3397.2	3384.4	3365.2	3358.8	3355.6	3358.8	3368.4
5°	3493.2	3470.8	3426.0	3358.8	3313.9	3285.1	3253.1	3240.3	3230.7	3230.7	3240.3
7.5°	3499.6	3464.4	3387.6	3288.3	3224.3	3179.4	3141.0	3125.0	3121.8	3131.4	3134.6
10°	3502.8	3451.6	3342.7	3217.9	3134.6	3077.0	3038.6	3029.0	3038.6	3057.8	3061.0
12.5°	3525.2	3454.8	3317.1	3169.8	3070.6	3013.0	2984.1	2984.1	3009.7	3045.0	3048.2
15°	3563.7	3477.2	3304.3	3131.4	3029.0	2977.7	2968.1	2984.1	3022.6	3077.0	3083.4
17.5°	3592.5	3490.0	3275.5	3080.2	2974.5	2942.5	2958.5	2996.9	3051.4	3125.0	3131.4
20°	3611.7	3490.0	3233.9	3019.4	2920.1	2913.7	2958.5	3019.4	3077.0	3163.4	3173.0
22.5°	3630.9	3483.6	3185.9	2945.7	2859.3	2878.5	2961.7	3038.6	3096.2	3189.1	3205.1
25°	3666.1	3493.2	3137.8	2872.1	2795.2	2849.7	2958.5	3051.4	3112.2	3208.3	3233.9
27.5°	3714.2	3515.6	3102.6	2804.8	2731.2	2804.8	2936.1	3048.2	3112.2	3205.1	3233.9
30°	3765.4	3541.3	3061.0	2731.2	2657.5	2740.8	2888.1	3013.0	3086.6	3173.0	3208.3
32.5°	3819.8	3570.1	3025.8	2651.1	2567.9	2654.3	2817.6	2958.5	3038.6	3118.6	3157.0
35°	3893.5	3621.3	3006.5	2587.1	2487.8	2564.7	2728.0	2888.1	2974.5	3048.2	3093.0
37.5°	3983.1	3685.3	2996.9	2523.1	2401.4	2465.4	2631.9	2801.6	2894.5	2955.3	2996.9
40°	4085.6	3765.4	2993.7	2462.2	2314.9	2363.0	2532.7	2702.4	2792.0	2840.1	2875.3
42.5°	4200.8	3855.0	2987.3	2401.4	2228.5	2266.9	2436.6	2603.1	2680.0	2721.6	2753.6
45°	4322.5	3944.7	2974.5	2327.8	2135.6	2180.5	2337.4	2484.6	2564.7	2599.9	2635.1
47.5°	4444.2	4034.3	2948.9	2244.5	2052.4	2094.0	2231.7	2359.8	2423.8	2455.8	2491.0
50°	4562.7	4114.4	2888.1	2148.4	1965.9	2004.4	2110.0	2196.5	2244.5	2270.1	2305.3
52.5°	4668.3	4168.8	2801.6	2036.4	1879.5	1898.7	1969.1	2042.8	2081.2	2084.4	2116.4
55°	4758.0	4197.6	2676.8	1921.1	1786.6	1789.8	1828.3	1885.9	1901.9	1889.1	1911.5
57.5°	4809.2	4181.6	2539.1	1802.6	1690.6	1677.8	1706.6	1735.4	1738.6	1706.6	1729.0
60°	4822.0	4108.0	2359.8	1684.2	1594.5	1559.3	1568.9	1562.5	1556.1	1543.3	1562.5
62.5°	4758.0	3951.1	2161.3	1568.9	1492.1	1437.6	1434.4	1431.2	1440.8	1444.0	1447.2
65°	4524.2	3656.5	1924.3	1450.4	1383.2	1309.6	1306.4	1344.8	1357.6	1338.4	1344.8
67.5°	4072.8	3205.1	1665.0	1312.8	1245.5	1181.5	1207.1	1229.5	1251.9	1245.5	1251.9
70°	3432.4	2631.9	1428.0	1159.1	1095.0	1059.8	1088.6	1107.8	1111.0	1104.6	1111.0
72.5°	2699.2	2055.6	1207.1	1002.2	944.5	928.5	963.8	979.8	1008.6	1021.4	1024.6
75°	1949.9	1517.7	989.4	832.5	784.5	784.5	816.5	845.3	870.9	854.9	845.3
77.5°	1088.6	906.1	710.8	573.1	582.7	627.6	640.4	672.4	698.0	694.8	688.4
80°	659.6	566.7	480.3	371.4	368.2	403.4	486.7	541.1	553.9	525.1	521.9
82.5°	342.6	297.8	256.1	208.1	230.5	269.0	281.8	339.4	374.6	361.8	377.8
85°	86.5	83.2	92.9	96.1	118.5	131.3	144.1	169.7	112.1	54.4	54.4
87.5°	25.6	25.6	32.0	32.0	41.6	51.2	48.0	48.0	25.6	3.2	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)