

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: P836306

Luminaire Tested: **ARCH3-170-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14221 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 170.6
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

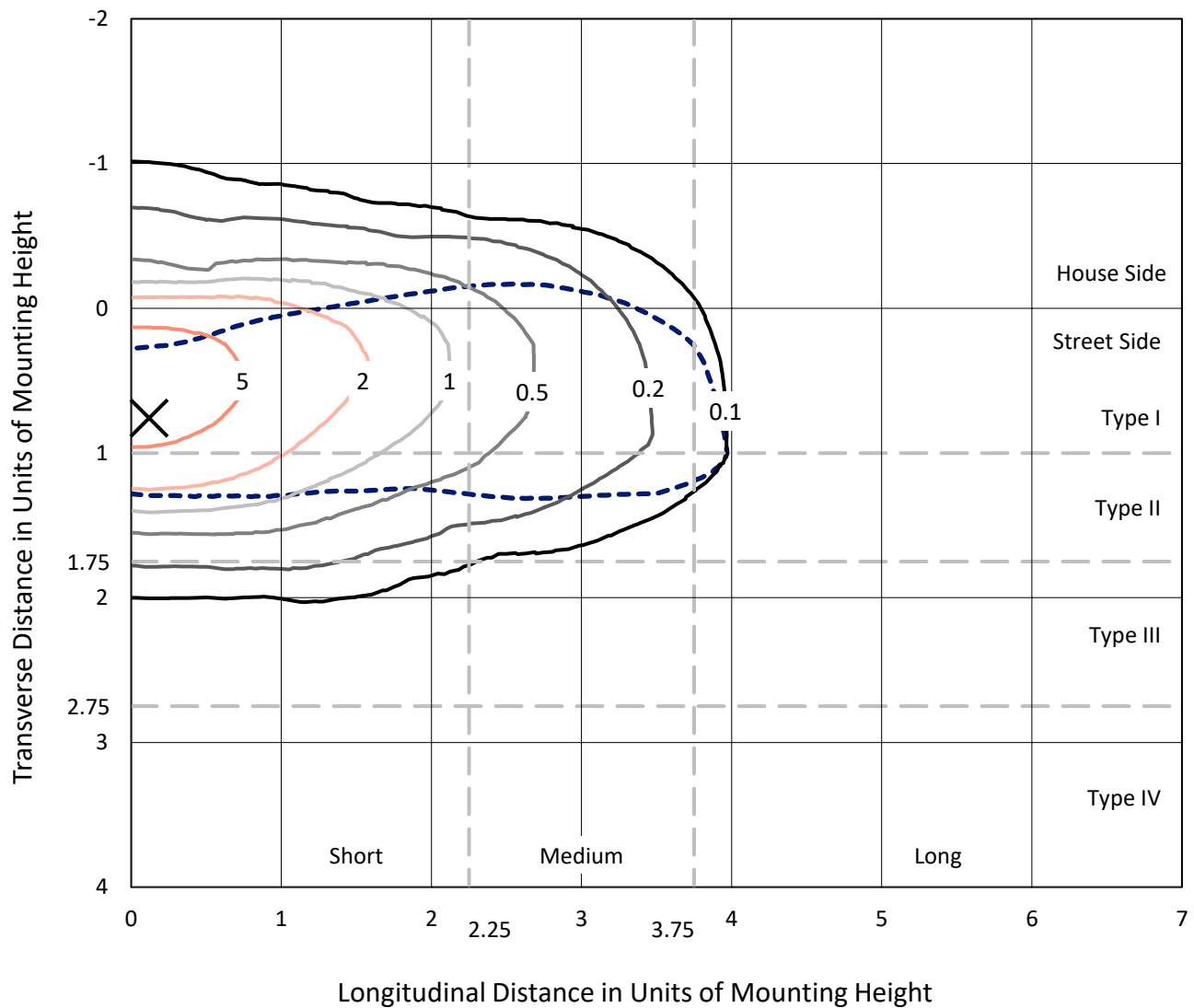


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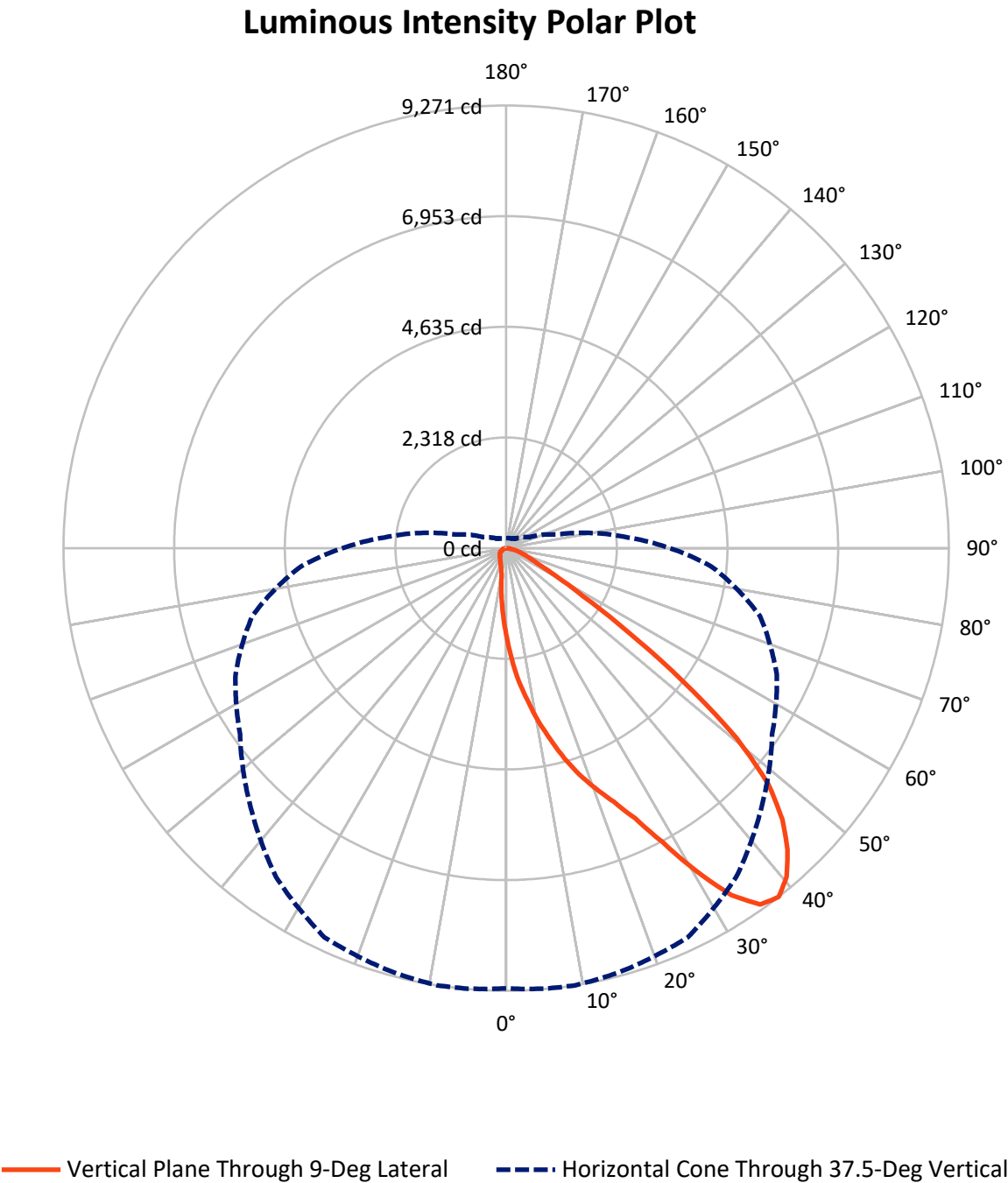
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type II - Short - N/A

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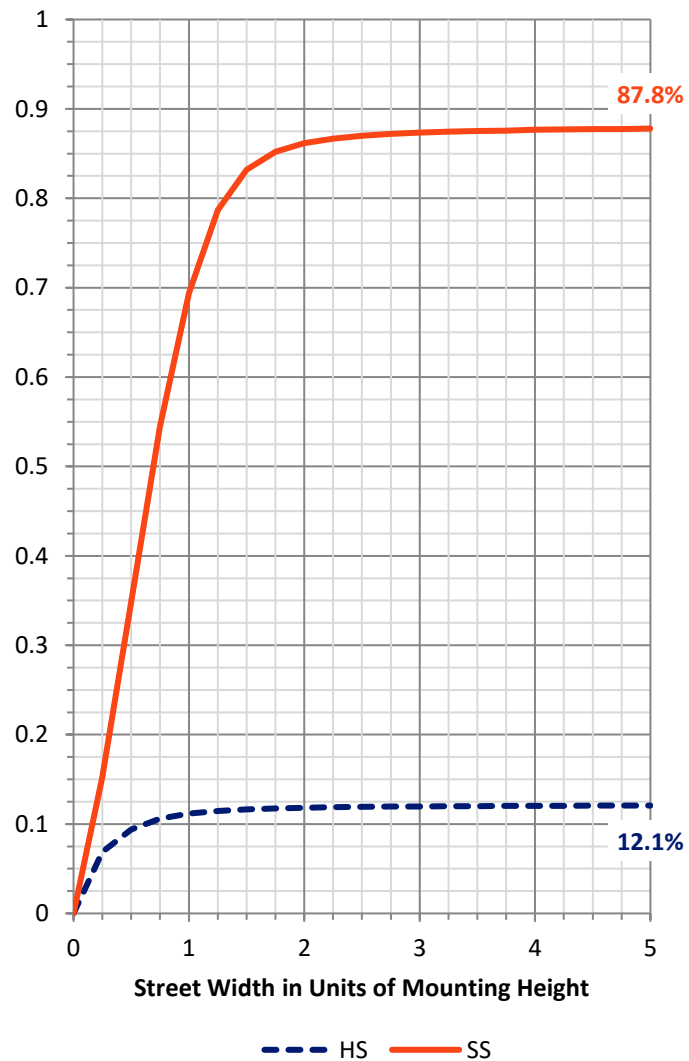
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1729.5	0.0	1729.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12491.5	0.0	12491.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	14221.0	0.0	14221.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	1.3
10°-20°	656.7	4.6
20°-30°	1349.4	9.5
30°-40°	2385.2	16.8
40°-50°	3168.6	22.3
50°-60°	3005.2	21.1
60°-70°	2292.7	16.1
70°-80°	1111.5	7.8
80°-90°	62.6	0.4
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°	14221.0	100.0
0°-180°	14221.0	100.0

Coefficient of Utilization



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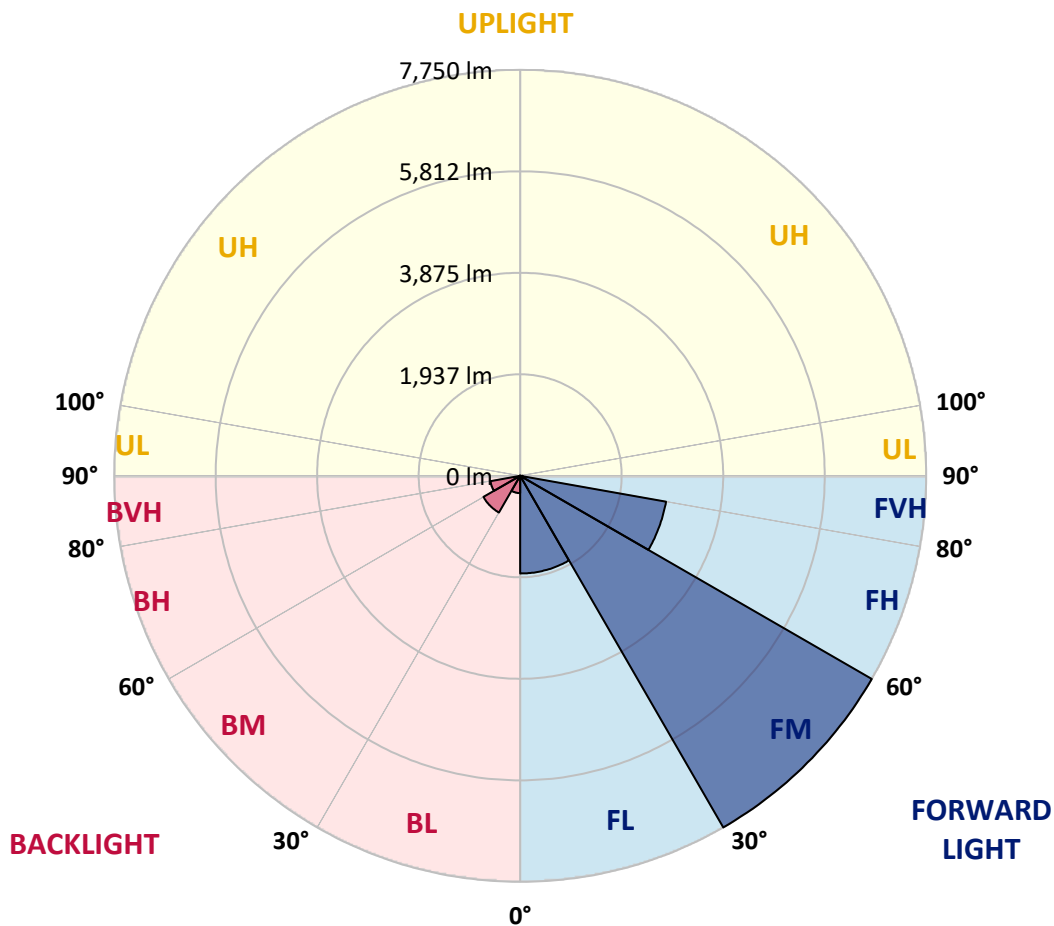
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1865.1	13.1			
FM	(30°-60°)	7749.8	54.5			
FH	(60°-80°)	2827.1	19.9			G2/5000
FVH	(80°-90°)	49.5	0.3			G1/100
BL	(0°-30°)	330.1	2.3	B1/500		
BM	(30°-60°)	809.3	5.7	B1/1000		
BH	(60°-80°)	577.1	4.1	B2/1000		G2/1000
BVH	(80°-90°)	13.0	0.1			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8
2.5°	2329.4	2288.5	2335.2	2329.4	2288.5	2262.2	2180.5	2154.2	2057.9	1987.8	1926.5
5°	2808.1	2767.2	2808.1	2796.4	2738.0	2673.8	2539.5	2452.0	2279.7	2128.0	1990.8
7.5°	3205.1	3205.1	3222.6	3225.5	3155.5	3056.2	2889.8	2758.5	2516.2	2282.7	2063.7
10°	3634.2	3637.1	3675.0	3648.8	3555.4	3421.1	3210.9	3044.5	2752.6	2446.1	2133.8
12.5°	4092.5	4095.4	4107.1	4095.4	3984.5	3812.2	3558.3	3339.4	3003.7	2632.9	2230.1
15°	4550.7	4553.7	4568.3	4547.8	4425.2	4223.8	3934.8	3666.3	3269.3	2843.1	2346.9
17.5°	4979.8	4985.7	4997.3	4971.1	4842.6	4603.3	4308.5	3984.5	3552.4	3067.9	2478.2
20°	5365.1	5371.0	5379.7	5344.7	5216.3	4976.9	4658.7	4320.1	3841.4	3298.5	2621.3
22.5°	5753.4	5759.2	5773.8	5727.1	5584.1	5309.7	4997.3	4647.1	4147.9	3552.4	2787.7
25°	6249.6	6255.4	6267.1	6200.0	6004.4	5683.3	5353.5	4994.4	4480.7	3838.5	2992.0
27.5°	6976.4	6970.6	6970.6	6848.0	6512.3	6094.9	5712.5	5347.6	4839.7	4145.0	3216.8
30°	7875.5	7860.9	7852.1	7685.8	7207.0	6559.0	6080.3	5677.5	5184.2	4469.0	3459.0
32.5°	8681.1	8681.1	8663.6	8488.5	7980.6	7183.7	6471.5	5998.6	5516.9	4795.9	3710.1
35°	9156.9	9177.4	9168.6	9037.3	8666.5	7855.1	6999.8	6383.9	5867.2	5137.5	4010.7
37.5°	9221.2	9262.0	9270.8	9192.0	8996.4	8403.8	7586.5	6801.3	6252.5	5505.3	4302.6
40°	8961.4	9048.9	9048.9	9037.3	8967.2	8663.6	8079.8	7285.9	6649.5	5887.6	4597.4
42.5°	8561.5	8652.0	8640.3	8684.1	8666.5	8602.3	8357.1	7738.3	7046.5	6281.7	4866.0
45°	8039.0	8132.4	8109.0	8187.8	8222.9	8292.9	8327.9	8053.6	7437.6	6710.8	5166.7
47.5°	7201.2	7358.8	7393.9	7534.0	7679.9	7898.8	8065.2	8167.4	7802.5	7172.0	5493.6
50°	5963.5	6185.4	6255.4	6550.3	6950.2	7402.6	7671.2	8027.3	8059.4	7644.9	5846.8
52.5°	4270.5	4527.4	4635.4	5119.9	5943.1	6731.2	7215.8	7717.9	8158.6	8097.3	6229.2
55°	2761.4	2980.3	3085.4	3540.8	4635.4	5873.1	6678.7	7318.0	8103.2	8511.8	6667.0
57.5°	1701.8	1827.3	1897.4	2288.5	3295.6	4772.6	5975.2	6950.2	7933.9	8870.9	7122.4
60°	1147.2	1220.1	1255.2	1439.1	2238.9	3567.0	5009.0	6564.9	7712.0	9113.2	7536.9
62.5°	761.9	785.2	820.2	934.1	1477.0	2504.5	3847.3	5876.0	7545.6	9127.8	7843.4
65°	589.6	601.3	615.9	665.5	910.7	1751.4	2705.9	4760.9	7297.5	8818.3	7939.7
67.5°	464.1	475.8	493.3	519.6	659.7	1188.0	1841.9	3488.2	6789.6	8333.8	7782.1
70°	364.9	373.6	385.3	408.7	513.7	861.1	1217.2	2317.7	5765.0	7872.6	7285.9
72.5°	289.0	297.7	309.4	332.8	417.4	630.5	834.8	1444.9	4445.7	7309.2	6331.3
75°	227.7	233.5	242.3	265.6	335.7	490.4	566.3	864.0	3021.2	6278.8	4933.1
77.5°	113.8	140.1	160.5	183.9	245.2	338.6	376.6	478.7	1275.6	3222.6	2352.7
80°	67.1	81.7	87.6	102.2	160.5	204.3	204.3	192.7	402.8	1237.7	960.4
82.5°	37.9	52.5	55.5	58.4	96.3	116.8	93.4	70.1	81.7	414.5	280.2
85°	11.7	17.5	20.4	23.4	32.1	35.0	32.1	29.2	23.4	40.9	26.3
87.5°	0.0	0.0	0.0	0.0	2.9	5.8	5.8	5.8	8.8	8.8	8.8
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°	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8	1879.8
2.5°	1891.5	1853.6	1780.6	1713.5	1649.2	1602.5	1558.8	1517.9	1488.7	1465.3	1462.4
5°	1917.8	1841.9	1701.8	1570.4	1450.7	1351.5	1266.9	1199.7	1150.1	1115.1	1112.1
7.5°	1952.8	1836.1	1623.0	1427.4	1249.3	1106.3	983.7	893.2	829.0	802.7	782.3
10°	1982.0	1830.2	1544.2	1284.4	1050.8	869.9	723.9	633.4	586.7	569.2	560.5
12.5°	2031.6	1836.1	1477.0	1153.0	878.6	665.5	554.6	505.0	484.6	470.0	467.0
15°	2104.6	1862.3	1412.8	1024.6	703.5	537.1	472.9	440.8	420.3	417.4	414.5
17.5°	2177.6	1885.7	1354.4	893.2	583.8	467.0	423.3	397.0	382.4	379.5	379.5
20°	2262.2	1914.9	1290.2	767.7	499.2	420.3	385.3	364.9	347.4	344.4	344.4
22.5°	2361.5	1955.7	1228.9	656.8	443.7	385.3	356.1	332.8	318.2	315.3	315.3
25°	2495.8	2017.0	1179.3	575.0	405.7	356.1	329.8	309.4	297.7	291.9	291.9
27.5°	2644.6	2101.7	1144.3	525.4	379.5	332.8	306.5	289.0	277.3	271.5	271.5
30°	2811.0	2195.1	1120.9	505.0	364.9	312.3	289.0	271.5	256.9	254.0	254.0
32.5°	2994.9	2303.1	1106.3	507.9	362.0	297.7	271.5	254.0	242.3	236.4	236.4
35°	3199.2	2422.8	1097.5	525.4	367.8	286.1	256.9	239.4	227.7	221.8	221.8
37.5°	3426.9	2562.9	1097.5	542.9	382.4	283.1	242.3	224.8	216.0	210.2	210.2
40°	3640.0	2711.8	1109.2	563.4	397.0	283.1	230.6	216.0	204.3	198.5	198.5
42.5°	3806.4	2796.4	1118.0	583.8	405.7	280.2	218.9	204.3	195.6	189.7	189.7
45°	3996.1	2886.9	1100.5	592.6	405.7	274.4	210.2	195.6	186.8	181.0	181.0
47.5°	4206.3	2997.8	1097.5	598.4	397.0	262.7	201.4	186.8	181.0	175.1	175.1
50°	4419.4	3120.4	1103.4	595.5	385.3	245.2	189.7	181.0	172.2	166.4	166.4
52.5°	4661.7	3248.9	1115.1	589.6	359.0	224.8	181.0	172.2	163.5	157.6	154.7
55°	4930.2	3389.0	1138.4	578.0	324.0	204.3	172.2	163.5	151.8	146.0	143.0
57.5°	5239.6	3561.2	1164.7	554.6	286.1	186.8	163.5	151.8	134.3	125.5	122.6
60°	5534.4	3756.8	1193.9	499.2	248.1	169.3	154.7	137.2	119.7	113.8	110.9
62.5°	5811.8	3949.4	1208.5	399.9	210.2	154.7	146.0	125.5	108.0	102.2	99.2
65°	5989.8	4159.6	1176.4	271.5	172.2	143.0	134.3	116.8	99.2	90.5	90.5
67.5°	6001.5	4258.8	1065.4	178.1	140.1	128.4	122.6	105.1	87.6	81.7	78.8
70°	5706.7	4110.0	814.4	140.1	116.8	110.9	110.9	93.4	75.9	70.1	67.1
72.5°	5029.5	3640.0	519.6	113.8	99.2	93.4	93.4	78.8	67.1	58.4	55.5
75°	3969.9	2808.1	277.3	93.4	81.7	78.8	73.0	64.2	55.5	49.6	46.7
77.5°	1824.4	1237.7	128.4	67.1	61.3	61.3	55.5	46.7	43.8	37.9	37.9
80°	721.0	420.3	64.2	43.8	40.9	40.9	40.9	32.1	32.1	26.3	23.4
82.5°	198.5	87.6	32.1	26.3	26.3	26.3	23.4	20.4	20.4	17.5	17.5
85°	20.4	14.6	14.6	14.6	14.6	11.7	11.7	8.8	5.8	5.8	5.8
87.5°	8.8	8.8	8.8	8.8	8.8	5.8	2.9	0.0	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)