

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: P835813

Luminaire Tested: **ARCH3-100-727-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835813
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: ARCH3-100-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 805mA 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: 10498 lumens
Efficiency: N/A
Efficacy: 102.3 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): 102.6
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

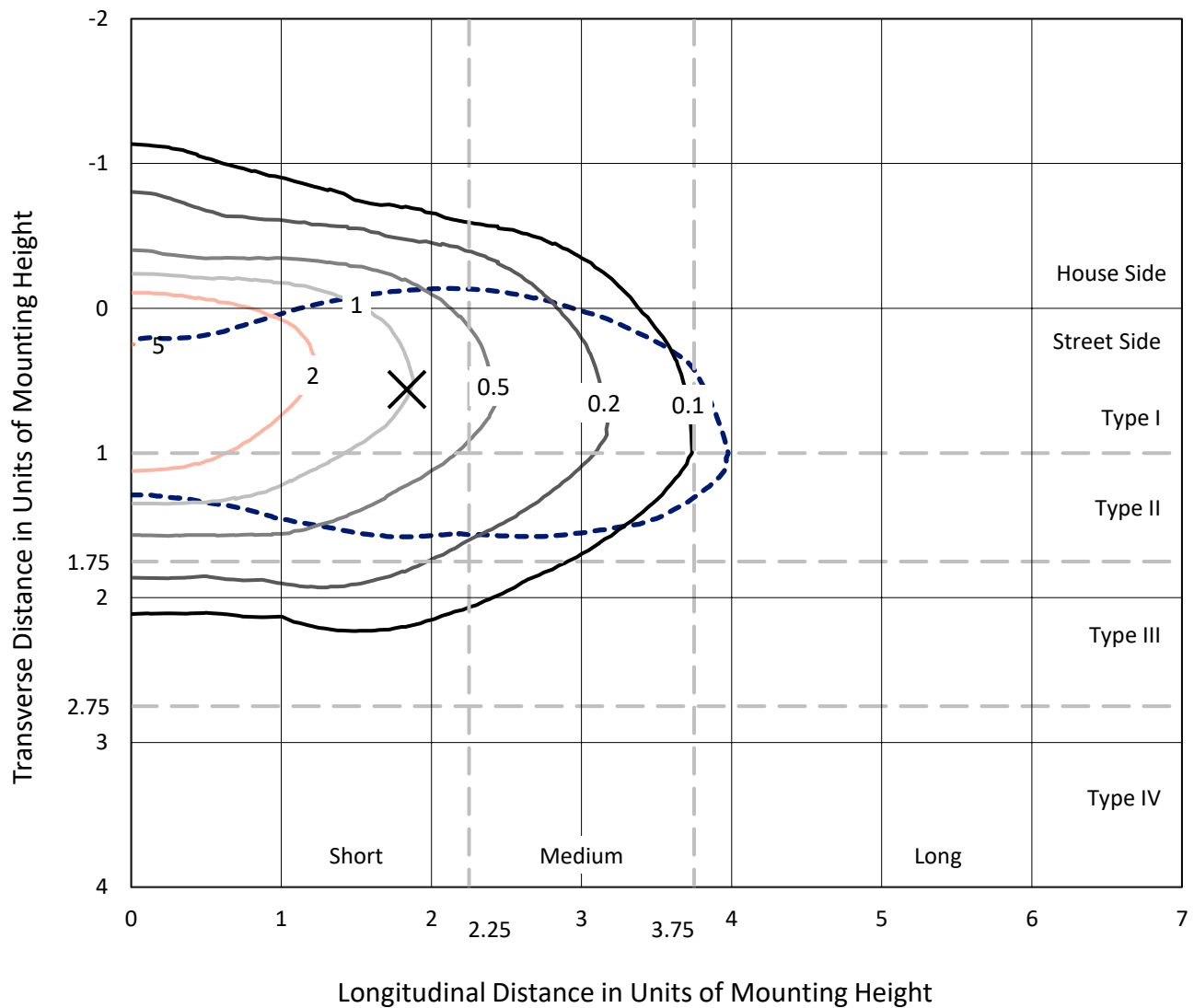


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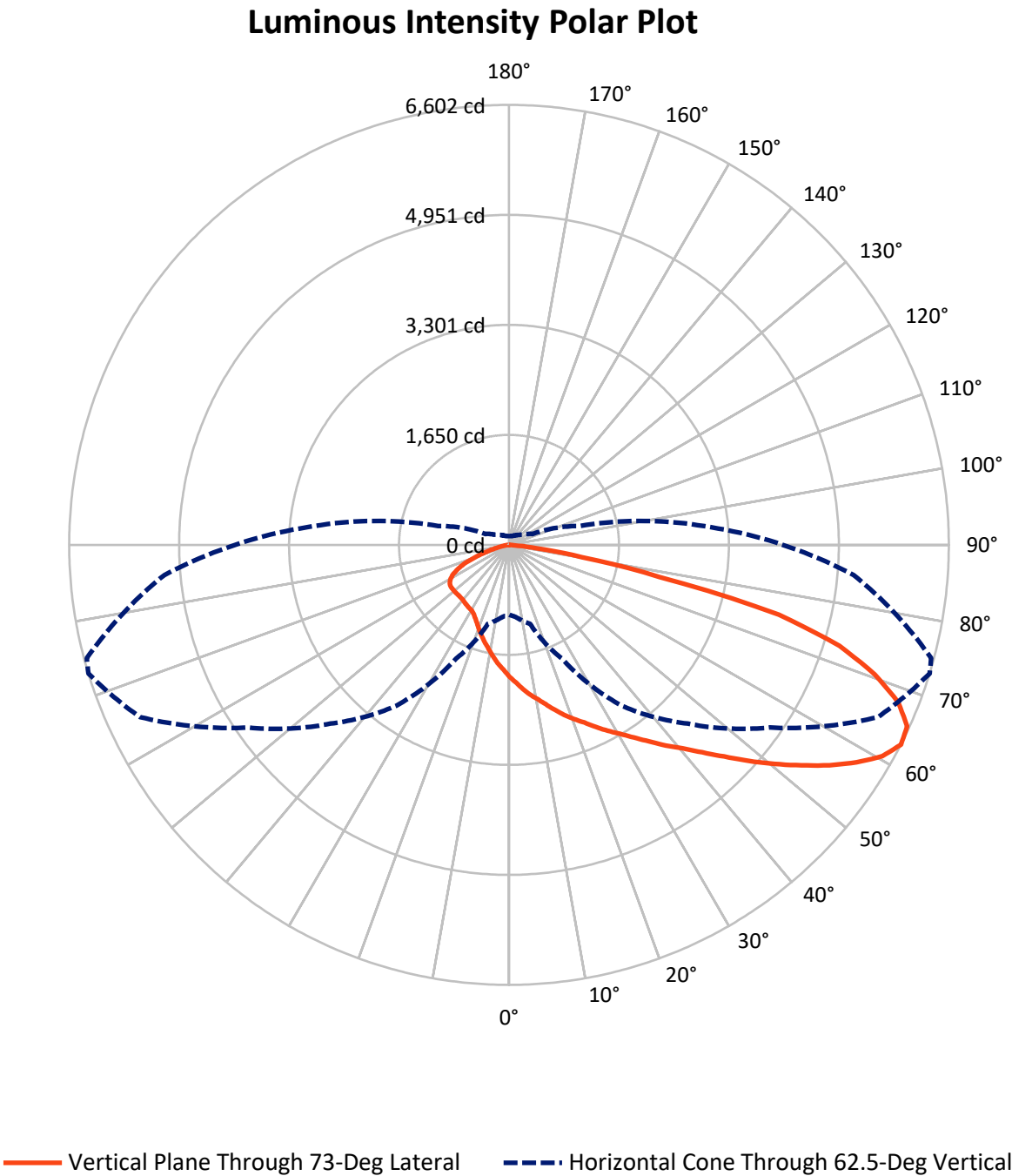
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type II - Short - N/A

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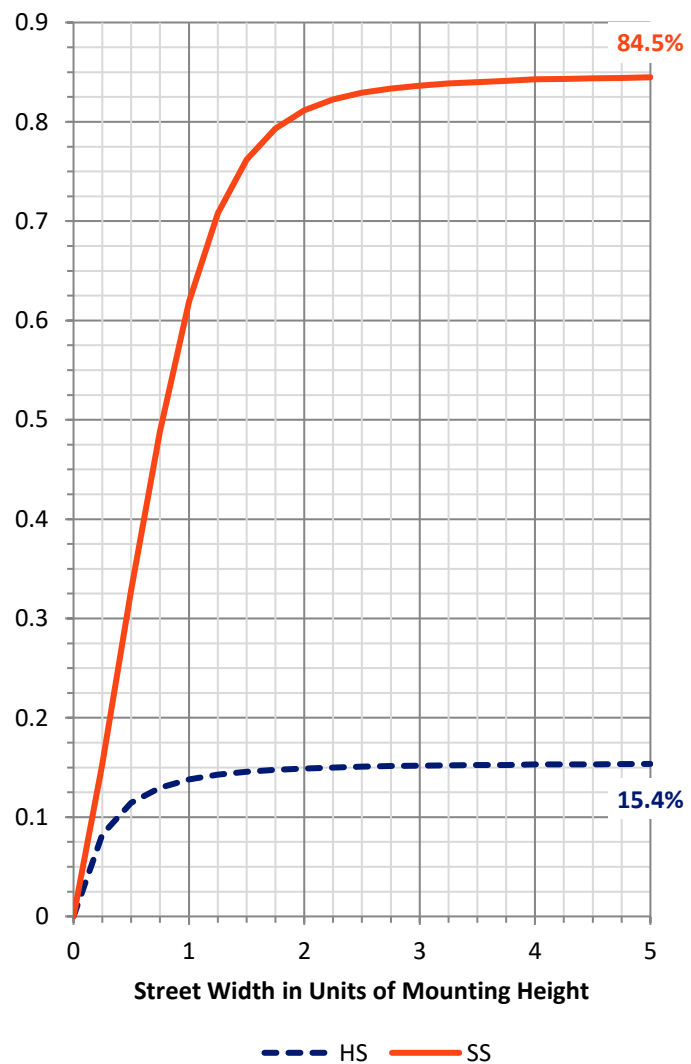
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1627.3	0.0	1627.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	8870.7	0.0	8870.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	10498.0	0.0	10498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	1.8
10°-20°	579.5	5.5
20°-30°	964.5	9.2
30°-40°	1455.4	13.9
40°-50°	2034.2	19.4
50°-60°	2246.9	21.4
60°-70°	1957.4	18.6
70°-80°	988.7	9.4
80°-90°	79.4	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°	10498.0	100.0
0°-180°	10498.0	100.0

Coefficient of Utilization



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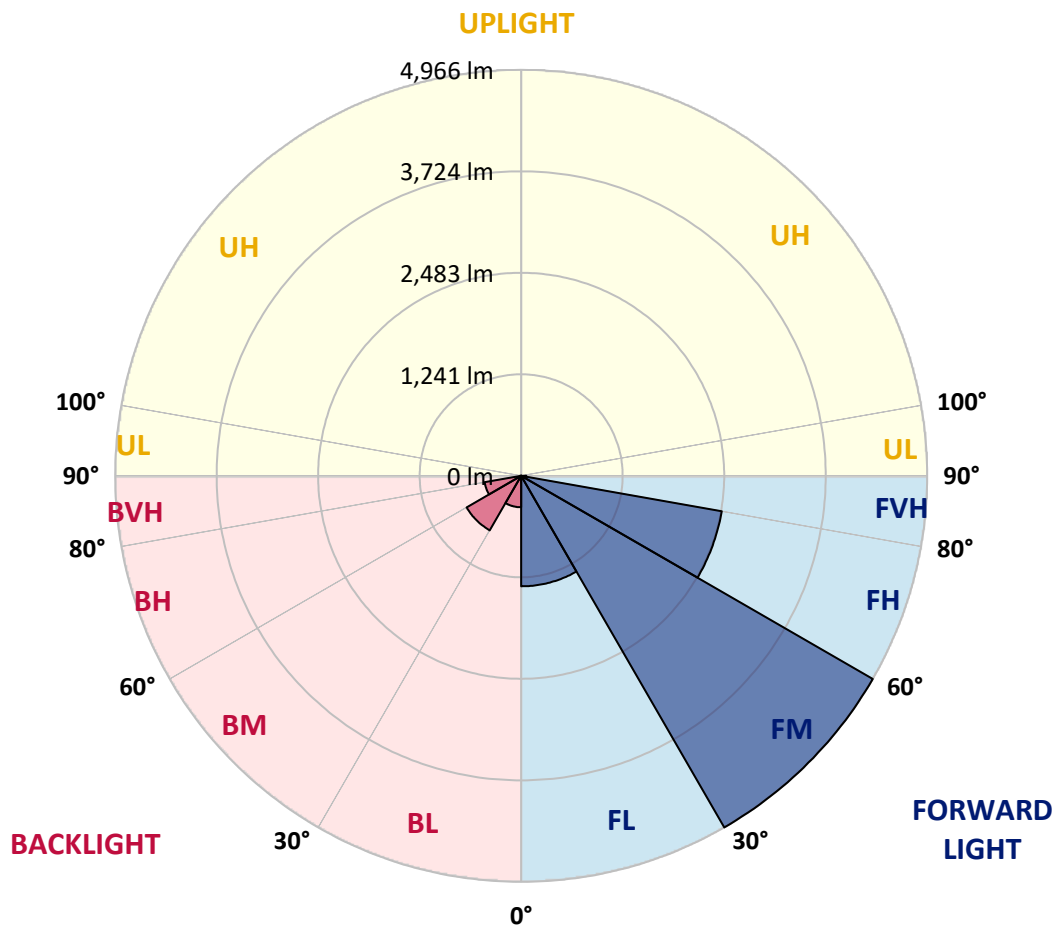
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1351.4	12.9			
FM	(30°-60°)	4965.9	47.3			
FH	(60°-80°)	2491.9	23.7			G2/5000
FVH	(80°-90°)	61.4	0.6			G1/100
BL	(0°-30°)	384.6	3.7	B1/500		
BM	(30°-60°)	770.5	7.3	B1/1000		
BH	(60°-80°)	454.2	4.3	B1/500		G1/500
BVH	(80°-90°)	17.9	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°	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8
2.5°	2262.3	2287.5	2273.8	2282.9	2237.2	2207.4	2173.1	2106.8	2070.2	2065.6	2022.1
5°	2594.0	2621.5	2598.6	2591.7	2511.7	2443.0	2365.3	2248.6	2170.8	2157.1	2061.0
7.5°	2925.7	2950.8	2923.4	2902.8	2795.3	2674.1	2559.7	2388.1	2266.9	2244.0	2093.0
10°	3159.0	3181.9	3161.3	3140.7	3028.6	2905.1	2742.7	2518.5	2353.8	2317.2	2113.6
12.5°	3335.1	3348.9	3339.7	3321.4	3216.2	3083.5	2928.0	2664.9	2452.2	2406.4	2145.7
15°	3479.3	3502.1	3490.7	3477.0	3376.3	3243.6	3095.0	2818.2	2566.6	2509.4	2193.7
17.5°	3575.3	3591.3	3593.6	3593.6	3504.4	3374.0	3229.9	2957.7	2680.9	2607.7	2239.4
20°	3618.8	3637.1	3648.5	3666.8	3593.6	3481.5	3335.1	3076.7	2788.4	2706.1	2282.9
22.5°	3639.4	3655.4	3685.1	3726.3	3666.8	3573.0	3438.1	3186.5	2895.9	2809.0	2333.2
25°	3655.4	3676.0	3719.4	3797.2	3756.0	3676.0	3559.3	3312.3	3024.0	2934.8	2406.4
27.5°	3698.9	3724.0	3765.2	3859.0	3808.7	3769.8	3687.4	3447.2	3159.0	3067.5	2495.6
30°	3849.8	3870.4	3868.1	3927.6	3865.8	3854.4	3797.2	3577.6	3289.4	3197.9	2600.9
32.5°	4124.3	4144.9	4094.6	4071.7	3936.7	3939.0	3916.2	3717.2	3444.9	3351.2	2722.1
35°	4419.4	4442.3	4375.9	4337.1	4110.6	4044.3	4055.7	3891.0	3618.8	3525.0	2873.1
37.5°	4682.5	4709.9	4652.7	4595.5	4366.8	4213.5	4211.2	4085.4	3817.8	3721.7	3040.1
40°	4826.6	4858.6	4892.9	4860.9	4620.7	4451.4	4378.2	4284.4	4014.5	3916.2	3220.8
42.5°	4895.2	4984.4	5046.2	5025.6	4828.9	4657.3	4570.4	4492.6	4254.7	4158.6	3435.8
45°	4703.1	4705.3	4835.7	4947.8	4911.2	4796.8	4780.8	4725.9	4529.2	4437.7	3678.3
47.5°	4462.9	4444.6	4536.1	4735.1	4838.0	4867.8	4961.5	4984.4	4842.6	4751.1	3925.3
50°	3886.4	3897.9	4195.2	4481.2	4682.5	4874.6	5089.6	5249.8	5165.1	5078.2	4186.1
52.5°	3161.3	3188.7	3529.6	4158.6	4476.6	4806.0	5165.1	5515.1	5494.5	5412.2	4446.9
55°	2534.5	2578.0	2939.4	3621.1	4213.5	4652.7	5197.2	5757.6	5835.4	5759.9	4703.1
57.5°	1937.5	1983.2	2287.5	2987.4	3877.3	4403.4	5174.3	5970.3	6153.3	6105.3	4938.7
60°	1459.4	1505.2	1699.6	2422.4	3456.4	4124.3	5059.9	6109.9	6439.3	6388.9	5110.2
62.5°	1045.4	1082.0	1226.1	1884.9	2944.0	3792.6	4778.5	6112.1	6601.7	6560.5	5192.6
65°	752.6	752.6	869.2	1345.0	2463.6	3394.6	4353.1	5830.8	6567.3	6555.9	5135.4
67.5°	542.1	546.7	640.5	940.2	1964.9	2912.0	3801.8	5329.8	6302.0	6359.2	4929.5
70°	384.3	395.7	439.2	656.5	1484.6	2298.9	3211.6	4673.3	5823.9	5924.6	4531.5
72.5°	297.4	304.2	334.0	457.5	1084.3	1708.7	2559.7	3941.3	5185.7	5300.1	3989.4
75°	228.7	235.6	258.5	336.3	777.7	1198.6	1818.5	3058.4	4181.5	4385.1	3204.8
77.5°	167.0	176.1	192.1	244.8	452.9	761.7	1102.6	1720.2	2308.1	2404.1	1679.0
80°	77.8	89.2	112.1	157.8	244.8	359.1	391.2	663.4	1109.4	1159.8	910.4
82.5°	43.5	54.9	64.0	96.1	123.5	128.1	132.7	167.0	418.6	462.1	382.0
85°	20.6	27.4	29.7	41.2	41.2	36.6	43.5	32.0	68.6	82.3	80.1
87.5°	0.0	2.3	4.6	11.4	9.1	6.9	6.9	6.9	6.9	9.1	6.9
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°	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8	1987.8
2.5°	2001.5	1971.8	1903.2	1843.7	1804.8	1770.5	1724.8	1704.2	1667.6	1674.4	1653.8
5°	2013.0	1958.1	1836.8	1724.8	1642.4	1569.2	1489.1	1443.4	1393.1	1388.5	1372.5
7.5°	2019.8	1935.2	1761.4	1603.5	1477.7	1365.6	1258.1	1198.6	1136.9	1123.2	1109.4
10°	2013.0	1900.9	1683.6	1477.7	1310.7	1171.2	1050.0	974.5	910.4	894.4	880.7
12.5°	2019.8	1882.6	1610.4	1361.0	1162.0	1004.2	867.0	789.2	729.7	713.7	704.5
15°	2035.9	1871.2	1548.6	1255.8	1029.4	853.2	718.3	651.9	603.9	587.9	583.3
17.5°	2049.6	1859.7	1482.3	1152.9	896.7	720.6	603.9	549.0	507.8	491.8	487.2
20°	2067.9	1843.7	1415.9	1054.5	780.0	615.3	512.4	464.4	432.3	420.9	418.6
22.5°	2083.9	1832.3	1354.2	956.2	672.5	530.7	443.8	404.9	382.0	370.6	370.6
25°	2125.1	1836.8	1301.6	864.7	592.5	464.4	391.2	361.4	343.1	336.3	336.3
27.5°	2173.1	1855.1	1260.4	786.9	523.8	414.0	354.6	329.4	320.2	311.1	313.4
30°	2241.7	1891.7	1233.0	722.8	473.5	375.1	324.8	306.5	297.4	295.1	295.1
32.5°	2328.7	1951.2	1230.7	681.7	436.9	345.4	304.2	288.2	283.6	281.4	281.4
35°	2431.6	2003.8	1216.9	663.4	414.0	324.8	288.2	276.8	274.5	274.5	274.5
37.5°	2555.1	2090.8	1207.8	638.2	402.6	313.4	276.8	267.6	267.6	267.6	267.6
40°	2683.2	2161.7	1194.1	615.3	398.0	306.5	269.9	258.5	258.5	258.5	258.5
42.5°	2836.5	2264.6	1189.5	603.9	391.2	301.9	260.8	247.0	249.3	249.3	251.6
45°	3021.8	2381.3	1187.2	592.5	388.9	297.4	251.6	235.6	237.9	235.6	235.6
47.5°	3209.3	2516.2	1194.1	585.6	386.6	292.8	244.8	224.2	224.2	221.9	221.9
50°	3406.1	2639.7	1198.6	578.7	382.0	283.6	233.3	215.0	210.4	205.9	208.2
52.5°	3591.3	2754.1	1200.9	567.3	368.3	269.9	224.2	203.6	196.7	189.9	192.1
55°	3776.6	2863.9	1205.5	553.6	350.0	256.2	212.7	192.1	183.0	173.8	173.8
57.5°	3943.6	2960.0	1194.1	519.3	329.4	242.5	201.3	178.4	164.7	155.5	155.5
60°	4058.0	3028.6	1159.8	468.9	301.9	226.5	189.9	164.7	148.7	141.8	141.8
62.5°	4112.9	3040.1	1098.0	386.6	267.6	210.4	176.1	151.0	137.2	132.7	132.7
65°	4060.3	2989.7	1001.9	290.5	231.0	192.1	162.4	139.5	125.8	114.4	114.4
67.5°	3877.3	2847.9	869.2	219.6	196.7	173.8	148.7	128.1	112.1	102.9	102.9
70°	3509.0	2552.8	672.5	176.1	167.0	151.0	135.0	114.4	100.6	89.2	89.2
72.5°	3026.3	2164.0	473.5	141.8	141.8	128.1	114.4	100.6	86.9	77.8	77.8
75°	2321.8	1601.2	318.0	114.4	116.7	107.5	93.8	82.3	73.2	66.3	66.3
77.5°	1267.3	791.5	194.4	84.6	86.9	82.3	73.2	66.3	61.8	54.9	54.9
80°	615.3	347.7	112.1	59.5	61.8	59.5	54.9	48.0	48.0	43.5	43.5
82.5°	258.5	130.4	59.5	41.2	41.2	36.6	34.3	34.3	34.3	32.0	32.0
85°	64.0	25.2	25.2	22.9	22.9	22.9	20.6	20.6	20.6	16.0	18.3
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	6.9	2.3	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)