

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: P835804

Luminaire Tested: **ARCH3-100-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835804
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: ARCH3-100-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 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: 9519 lumens
Efficiency: N/A
Efficacy: 92.8 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

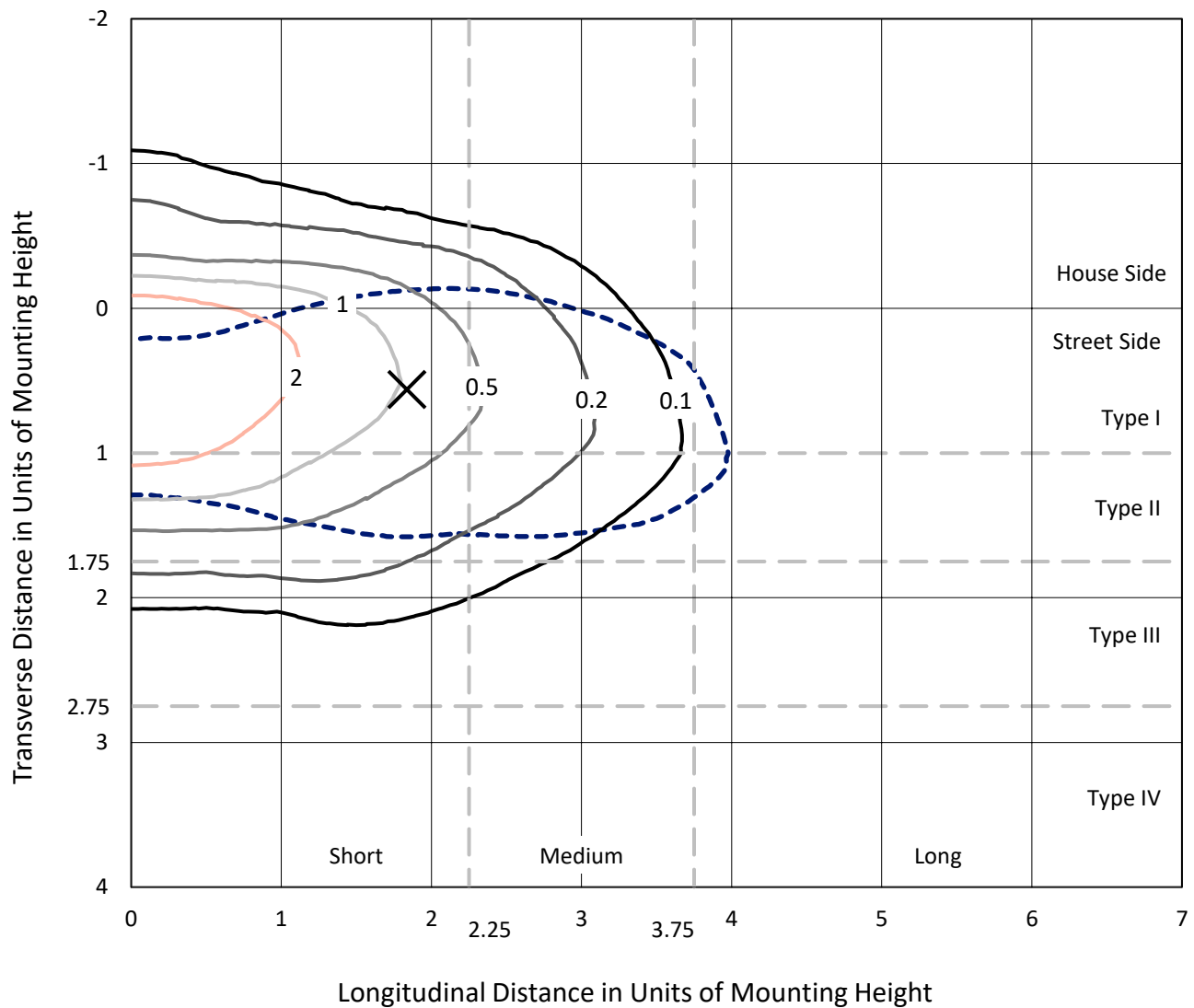


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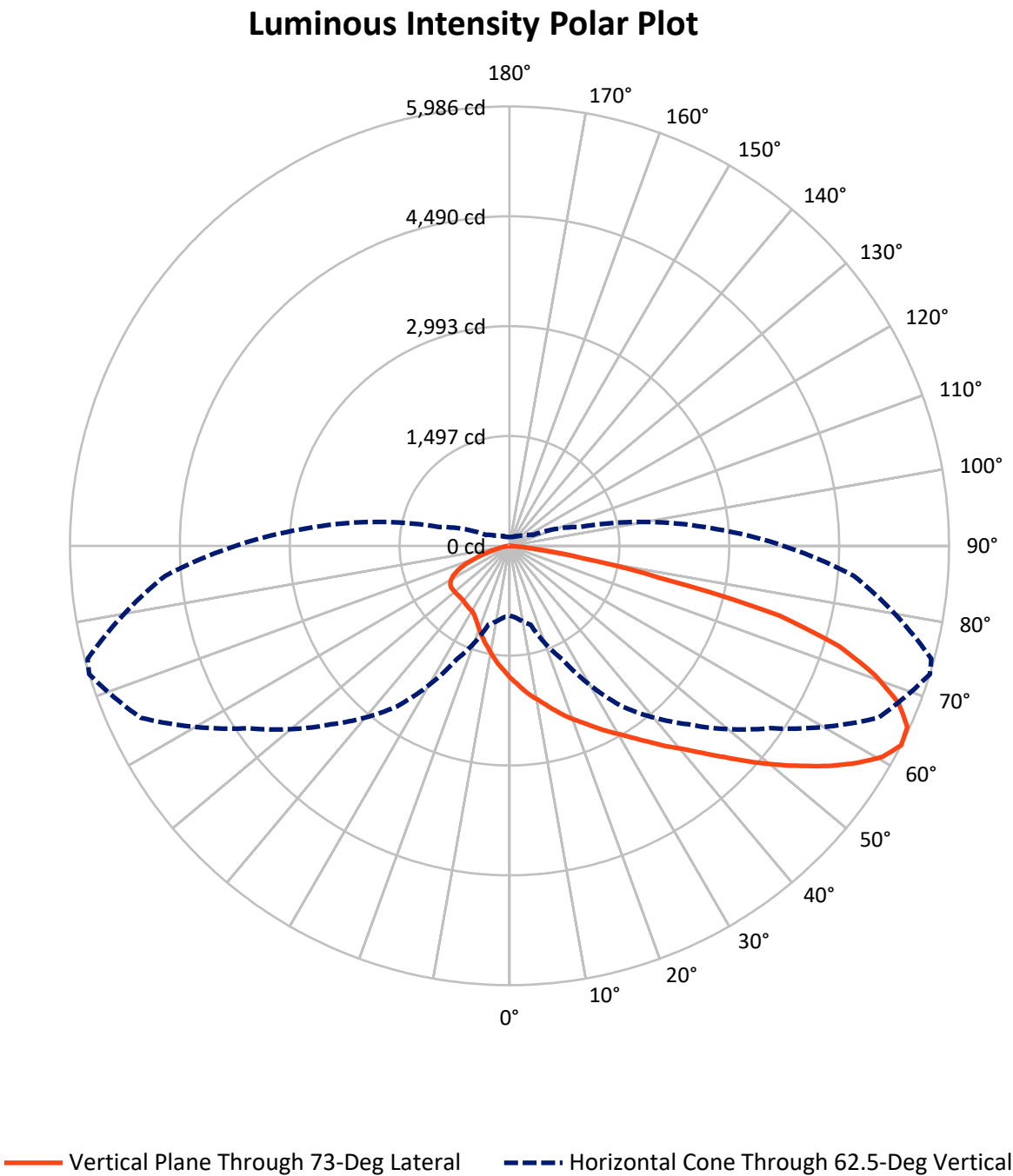
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type II - Short - N/A

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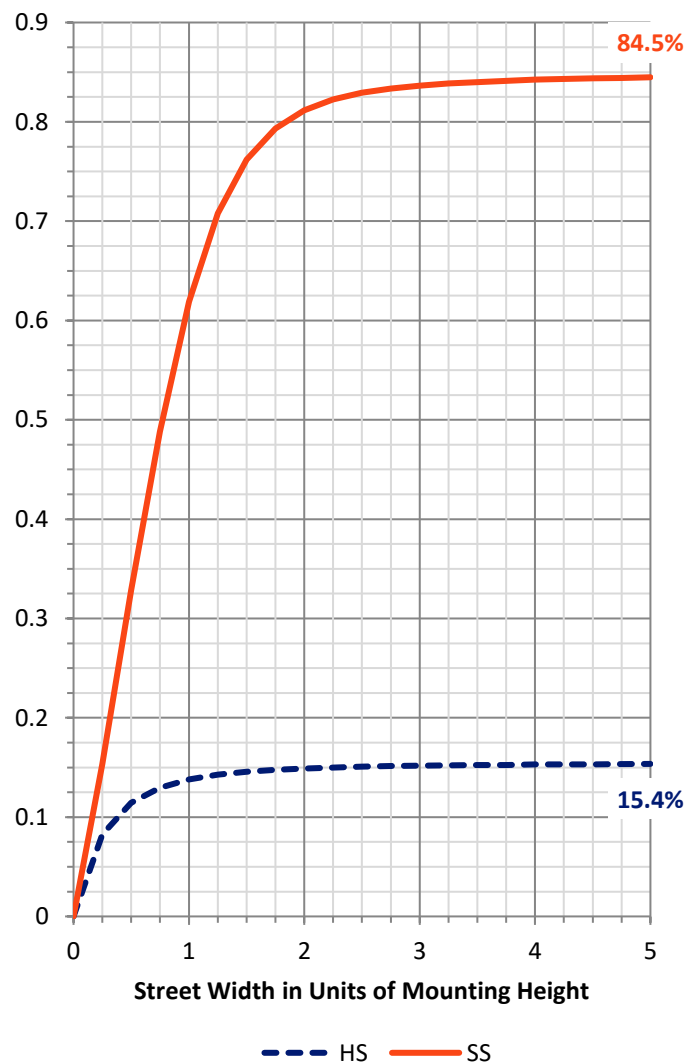
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1475.6	0.0	1475.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	8043.4	0.0	8043.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	9519.0	0.0	9519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	1.8
10°-20°	525.4	5.5
20°-30°	874.6	9.2
30°-40°	1319.6	13.9
40°-50°	1844.5	19.4
50°-60°	2037.4	21.4
60°-70°	1774.8	18.6
70°-80°	896.5	9.4
80°-90°	72.0	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°	9519.0	100.0
0°-180°	9519.0	100.0

Coefficient of Utilization



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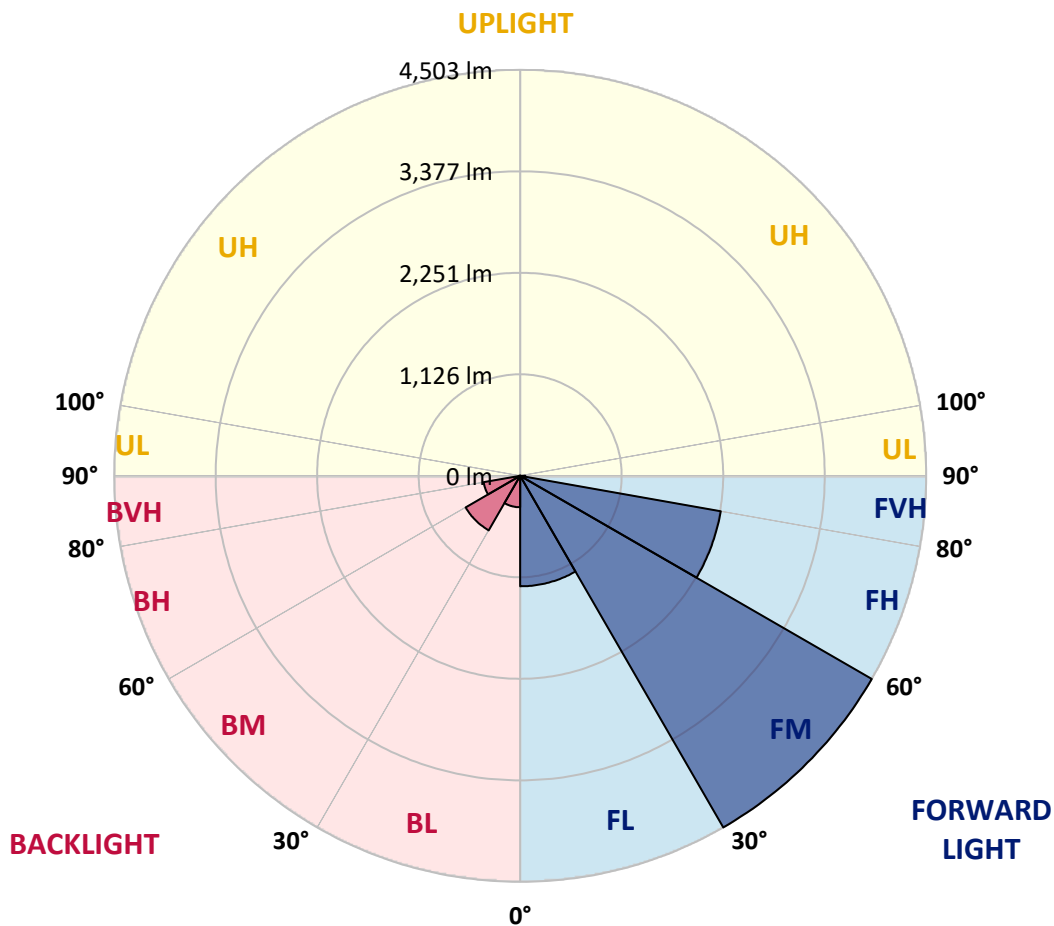
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1225.4	12.9			
FM	(30°-60°)	4502.8	47.3			
FH	(60°-80°)	2259.5	23.7			G2/5000
FVH	(80°-90°)	55.7	0.6			G1/100
BL	(0°-30°)	348.8	3.7	B1/500		
BM	(30°-60°)	698.7	7.3	B1/1000		
BH	(60°-80°)	411.9	4.3	B1/500		G1/500
BVH	(80°-90°)	16.3	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°	1802.4	1802.4	1802.4	1802.4	1802.4	1802.4	1802.4	1802.4	1802.4	1802.4	1802.4
2.5°	2051.3	2074.2	2061.7	2070.0	2028.5	2001.6	1970.4	1910.3	1877.1	1873.0	1833.6
5°	2352.1	2377.0	2356.2	2350.0	2277.4	2215.2	2144.7	2038.9	1968.4	1955.9	1868.8
7.5°	2652.8	2675.7	2650.8	2632.1	2534.6	2424.7	2321.0	2165.4	2055.5	2034.7	1897.9
10°	2864.4	2885.2	2866.5	2847.8	2746.2	2634.2	2486.9	2283.6	2134.3	2101.1	1916.5
12.5°	3024.1	3036.6	3028.3	3011.7	2916.3	2796.0	2654.9	2416.4	2223.5	2182.0	1945.6
15°	3154.8	3175.5	3165.2	3152.7	3061.5	2941.2	2806.3	2555.4	2327.2	2275.4	1989.1
17.5°	3241.9	3256.4	3258.5	3258.5	3177.6	3059.4	2928.7	2681.9	2430.9	2364.5	2030.6
20°	3281.3	3297.9	3308.3	3324.9	3258.5	3156.9	3024.1	2789.7	2528.4	2453.7	2070.0
22.5°	3300.0	3314.5	3341.5	3378.8	3324.9	3239.8	3117.5	2889.3	2625.9	2547.1	2115.6
25°	3314.5	3333.2	3372.6	3443.1	3405.8	3333.2	3227.4	3003.4	2742.0	2661.1	2182.0
27.5°	3353.9	3376.7	3414.1	3499.1	3453.5	3418.2	3343.5	3125.8	2864.4	2781.4	2262.9
30°	3490.8	3509.5	3507.4	3561.3	3505.3	3495.0	3443.1	3244.0	2982.6	2899.7	2358.3
32.5°	3739.7	3758.4	3712.7	3692.0	3569.6	3571.7	3551.0	3370.5	3123.7	3038.6	2468.2
35°	4007.3	4028.0	3967.9	3932.6	3727.3	3667.1	3677.5	3528.1	3281.3	3196.3	2605.1
37.5°	4245.8	4270.7	4218.8	4167.0	3959.6	3820.6	3818.5	3704.4	3461.8	3374.7	2756.6
40°	4376.5	4405.5	4436.6	4407.6	4189.8	4036.3	3969.9	3884.9	3640.1	3551.0	2920.4
42.5°	4438.7	4519.6	4575.6	4556.9	4378.5	4223.0	4144.2	4073.6	3857.9	3770.8	3115.4
45°	4264.5	4266.5	4384.8	4486.4	4453.2	4349.5	4335.0	4285.2	4106.8	4023.9	3335.2
47.5°	4046.7	4030.1	4113.1	4293.5	4386.8	4413.8	4498.8	4519.6	4391.0	4308.0	3559.3
50°	3524.0	3534.4	3804.0	4063.3	4245.8	4420.0	4615.0	4760.2	4683.4	4604.6	3795.7
52.5°	2866.5	2891.4	3200.4	3770.8	4059.1	4357.8	4683.4	5000.8	4982.1	4907.5	4032.2
55°	2298.2	2337.6	2665.3	3283.4	3820.6	4218.8	4712.5	5220.7	5291.2	5222.7	4264.5
57.5°	1756.8	1798.3	2074.2	2708.8	3515.7	3992.8	4691.7	5413.6	5579.5	5535.9	4478.1
60°	1323.3	1364.8	1541.1	2196.5	3134.1	3739.7	4588.0	5540.1	5838.8	5793.1	4633.7
62.5°	947.9	981.1	1111.7	1709.1	2669.4	3439.0	4332.9	5542.1	5986.0	5948.7	4708.3
65°	682.4	682.4	788.2	1219.6	2233.9	3078.0	3947.1	5287.0	5954.9	5944.5	4656.5
67.5°	491.6	495.7	580.8	852.5	1781.7	2640.4	3447.2	4832.8	5714.3	5766.2	4469.8
70°	348.5	358.8	398.2	595.3	1346.1	2084.5	2912.1	4237.5	5280.8	5372.1	4108.9
72.5°	269.6	275.9	302.8	414.8	983.2	1549.4	2321.0	3573.8	4702.1	4805.8	3617.3
75°	207.4	213.6	234.4	304.9	705.2	1086.9	1649.0	2773.1	3791.6	3976.2	2905.9
77.5°	151.4	159.7	174.2	221.9	410.7	690.7	999.7	1559.8	2092.8	2179.9	1522.4
80°	70.5	80.9	101.6	143.1	221.9	325.6	354.7	601.5	1006.0	1051.6	825.5
82.5°	39.4	49.8	58.1	87.1	112.0	116.2	120.3	151.4	379.6	419.0	346.4
85°	18.7	24.9	27.0	37.3	37.3	33.2	39.4	29.0	62.2	74.7	72.6
87.5°	0.0	2.1	4.1	10.4	8.3	6.2	6.2	6.2	6.2	8.3	6.2
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°	1802.4	1802.4	1802.4	1802.4	1802.4	1802.4	1802.4	1802.4	1802.4	1802.4	1802.4
2.5°	1814.9	1787.9	1725.7	1671.8	1636.5	1605.4	1563.9	1545.2	1512.1	1518.3	1499.6
5°	1825.3	1775.5	1665.5	1563.9	1489.2	1422.9	1350.3	1308.8	1263.2	1259.0	1244.5
7.5°	1831.5	1754.7	1597.1	1454.0	1339.9	1238.3	1140.8	1086.9	1030.9	1018.4	1006.0
10°	1825.3	1723.6	1526.6	1339.9	1188.5	1062.0	952.0	883.6	825.5	811.0	798.6
12.5°	1831.5	1707.0	1460.2	1234.1	1053.7	910.6	786.1	715.6	661.7	647.1	638.8
15°	1846.0	1696.7	1404.2	1138.7	933.4	773.7	651.3	591.1	547.6	533.1	528.9
17.5°	1858.4	1686.3	1344.1	1045.4	813.1	653.4	547.6	497.8	460.5	445.9	441.8
20°	1875.0	1671.8	1283.9	956.2	707.3	557.9	464.6	421.1	392.0	381.6	379.6
22.5°	1889.6	1661.4	1227.9	867.0	609.8	481.2	402.4	367.1	346.4	336.0	336.0
25°	1926.9	1665.5	1180.2	784.0	537.2	421.1	354.7	327.7	311.1	304.9	304.9
27.5°	1970.4	1682.1	1142.9	713.5	475.0	375.4	321.5	298.7	290.4	282.1	284.2
30°	2032.7	1715.3	1118.0	655.4	429.4	340.2	294.5	277.9	269.6	267.6	267.6
32.5°	2111.5	1769.3	1115.9	618.1	396.2	313.2	275.9	261.3	257.2	255.1	255.1
35°	2204.8	1817.0	1103.5	601.5	375.4	294.5	261.3	251.0	248.9	248.9	248.9
37.5°	2316.8	1895.8	1095.2	578.7	365.1	284.2	251.0	242.7	242.7	242.7	242.7
40°	2433.0	1960.1	1082.7	557.9	360.9	277.9	244.8	234.4	234.4	234.4	234.4
42.5°	2572.0	2053.4	1078.6	547.6	354.7	273.8	236.5	224.0	226.1	226.1	228.2
45°	2740.0	2159.2	1076.5	537.2	352.6	269.6	228.2	213.6	215.7	213.6	213.6
47.5°	2910.0	2281.6	1082.7	531.0	350.5	265.5	221.9	203.3	203.3	201.2	201.2
50°	3088.4	2393.6	1086.9	524.8	346.4	257.2	211.6	195.0	190.8	186.7	188.7
52.5°	3256.4	2497.3	1088.9	514.4	333.9	244.8	203.3	184.6	178.4	172.2	174.2
55°	3424.4	2596.8	1093.1	501.9	317.3	232.3	192.9	174.2	165.9	157.6	157.6
57.5°	3575.8	2684.0	1082.7	470.8	298.7	219.9	182.5	161.8	149.3	141.0	141.0
60°	3679.6	2746.2	1051.6	425.2	273.8	205.3	172.2	149.3	134.8	128.6	128.6
62.5°	3729.3	2756.6	995.6	350.5	242.7	190.8	159.7	136.9	124.4	120.3	120.3
65°	3681.6	2710.9	908.5	263.4	209.5	174.2	147.3	126.5	114.1	103.7	103.7
67.5°	3515.7	2582.3	788.2	199.1	178.4	157.6	134.8	116.2	101.6	93.3	93.3
70°	3181.8	2314.8	609.8	159.7	151.4	136.9	122.4	103.7	91.3	80.9	80.9
72.5°	2744.1	1962.2	429.4	128.6	128.6	116.2	103.7	91.3	78.8	70.5	70.5
75°	2105.3	1451.9	288.3	103.7	105.8	97.5	85.0	74.7	66.4	60.2	60.2
77.5°	1149.1	717.7	176.3	76.7	78.8	74.7	66.4	60.2	56.0	49.8	49.8
80°	557.9	315.3	101.6	53.9	56.0	53.9	49.8	43.6	43.6	39.4	39.4
82.5°	234.4	118.2	53.9	37.3	37.3	33.2	31.1	31.1	31.1	29.0	29.0
85°	58.1	22.8	22.8	20.7	20.7	20.7	18.7	18.7	18.7	14.5	16.6
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	6.2	2.1	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)