

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: P835888

Luminaire Tested: **ARCH3-110-727-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16422 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

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

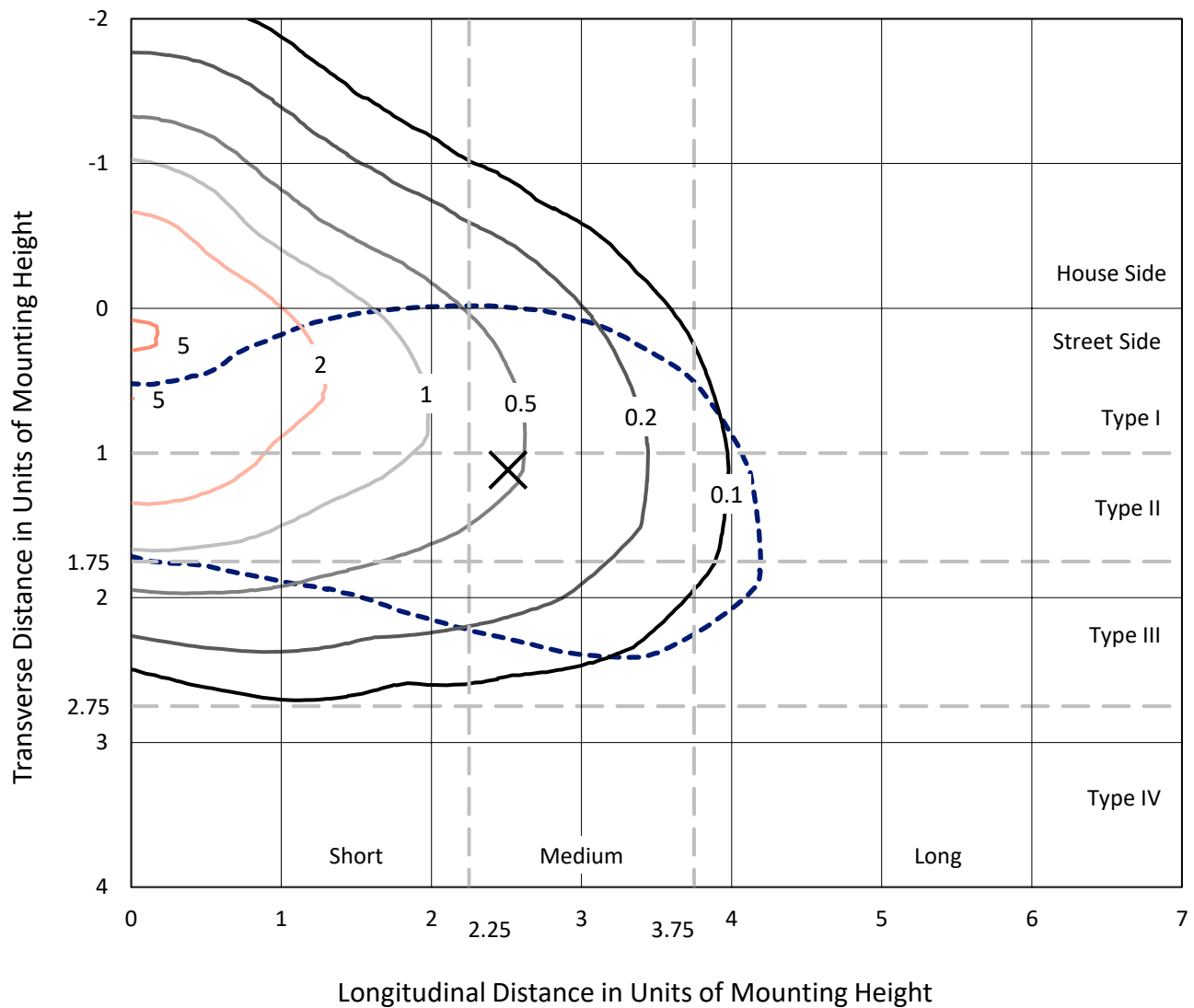


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

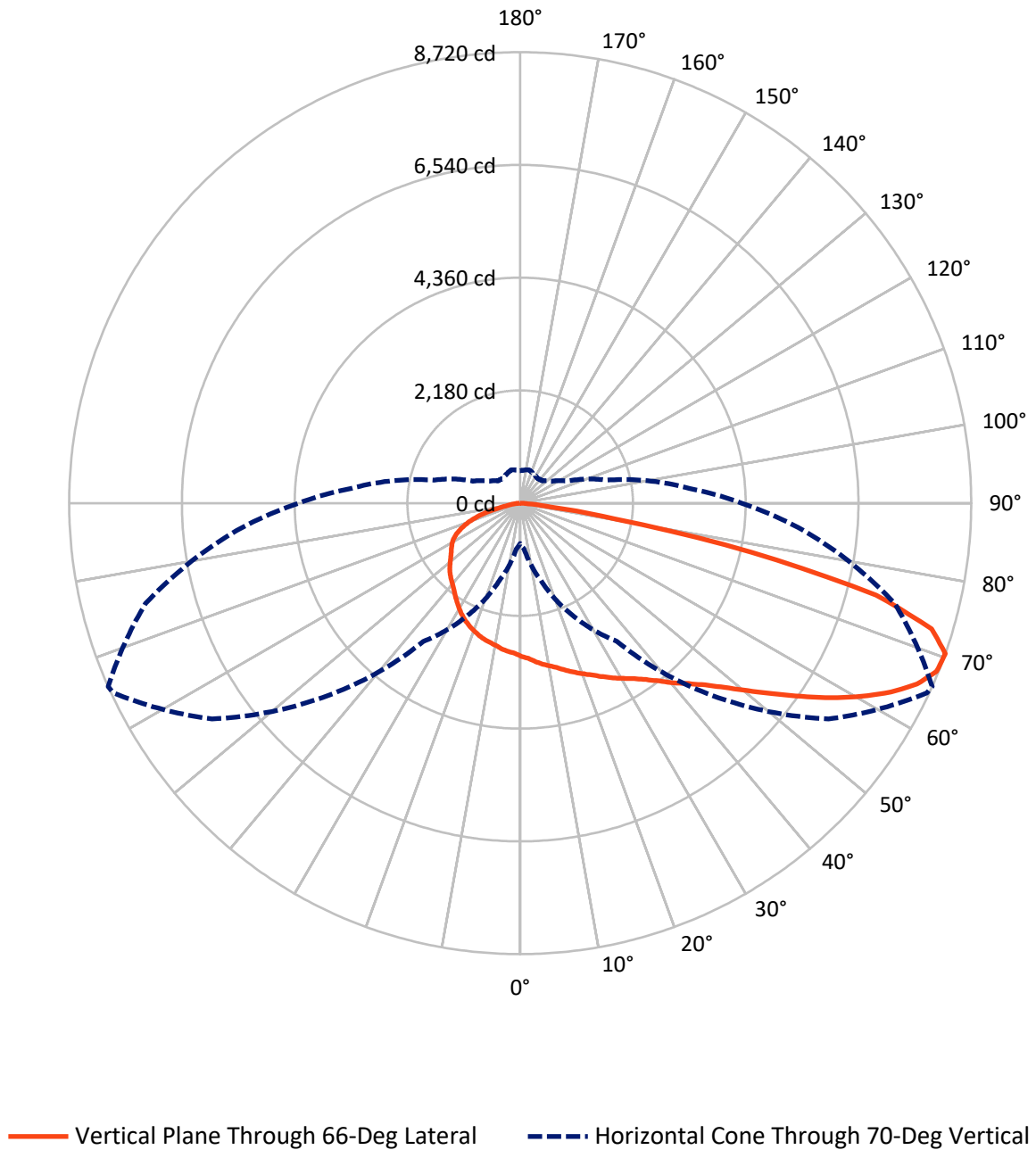


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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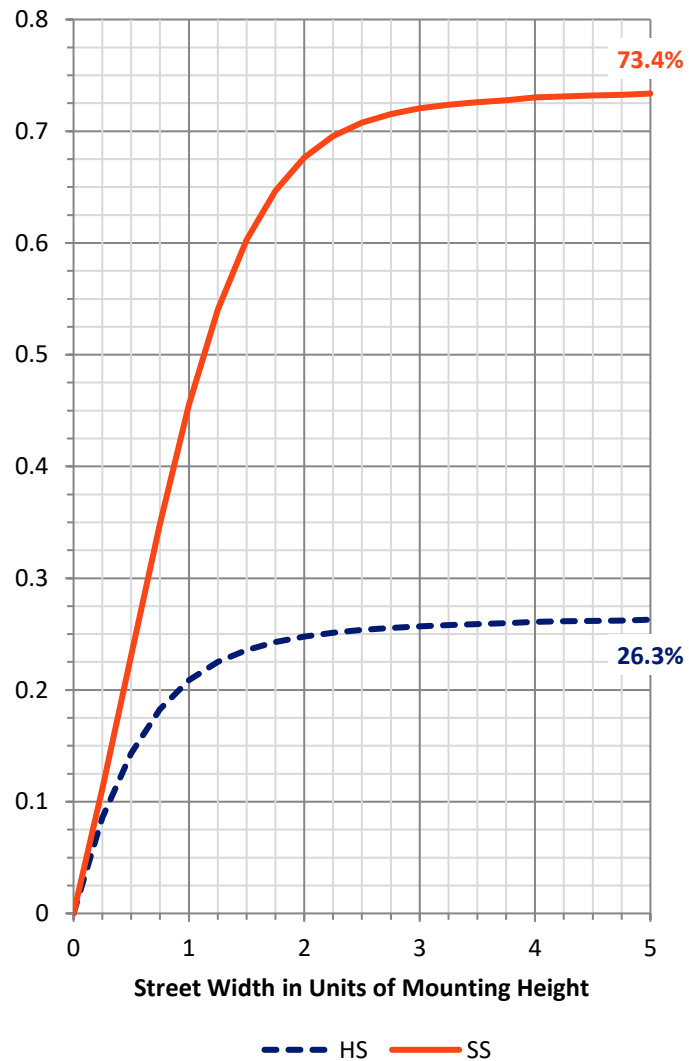
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4351.4	0.0	4351.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	12070.5	0.0	12070.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	16422.0	0.0	16422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	1.7
10°-20°	854.3	5.2
20°-30°	1432.0	8.7
30°-40°	2144.2	13.1
40°-50°	2866.8	17.5
50°-60°	3347.1	20.4
60°-70°	3328.2	20.3
70°-80°	1970.3	12.0
80°-90°	194.2	1.2
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°	16422.0	100.0
0°-180°	16422.0	100.0

Coefficient of Utilization



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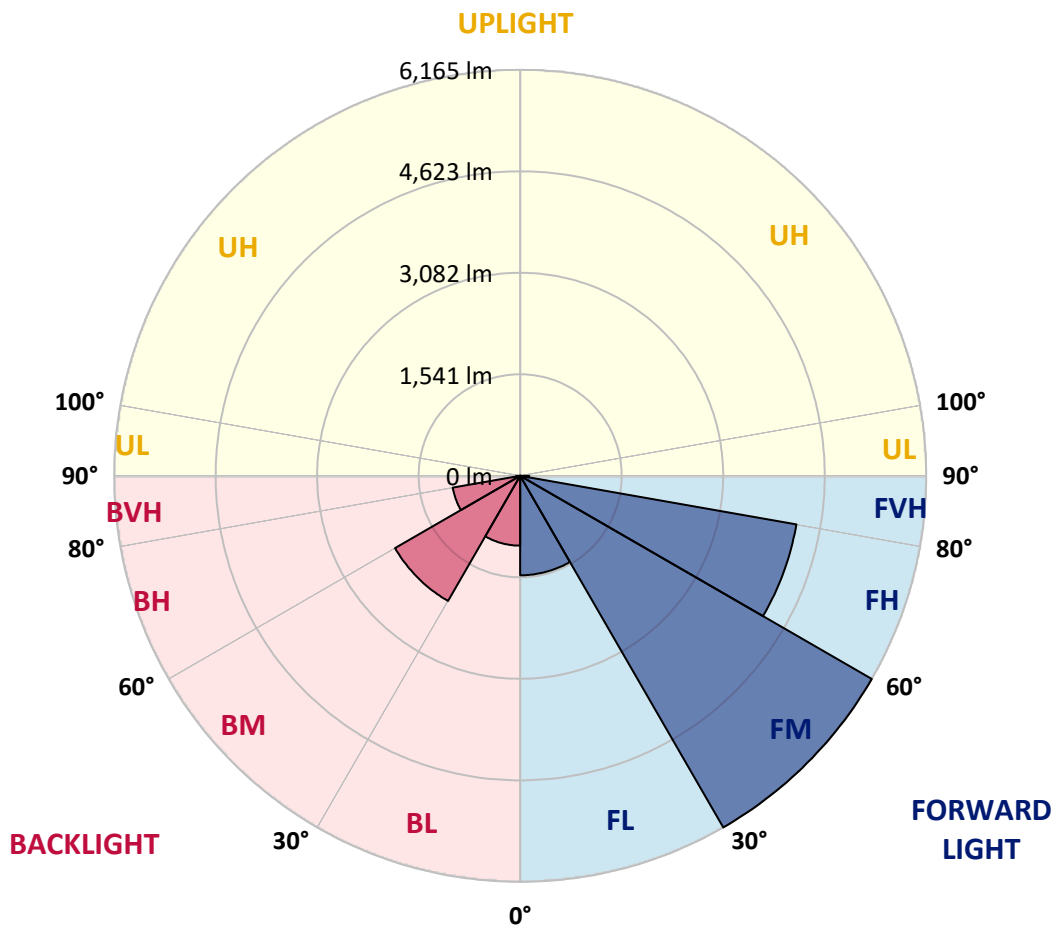
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1510.4	9.2			
FM	(30°-60°)	6164.6	37.5			
FH	(60°-80°)	4259.1	25.9			G2/5000
FVH	(80°-90°)	136.5	0.8			G2/225
BL	(0°-30°)	1060.7	6.5	B3/2500		
BM	(30°-60°)	2193.6	13.4	B2/2500		
BH	(60°-80°)	1039.5	6.3	B3/2500		G3/2500
BVH	(80°-90°)	57.7	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2963.8	2963.8	2963.8	2963.8	2963.8	2963.8	2963.8	2963.8	2963.8	2963.8	2963.8
2.5°	3072.8	3067.9	3065.5	3055.8	3034.0	3043.7	3021.9	3007.4	3005.0	2971.1	2951.7
5°	3198.7	3196.3	3191.4	3176.9	3143.0	3147.8	3111.5	3084.9	3077.6	3024.3	2983.2
7.5°	3305.2	3300.4	3298.0	3278.6	3242.3	3239.8	3196.3	3157.5	3145.4	3072.8	3009.8
10°	3387.5	3380.3	3385.1	3365.7	3327.0	3319.7	3264.1	3213.2	3201.1	3109.1	3021.9
12.5°	3457.8	3452.9	3460.2	3443.2	3411.8	3404.5	3348.8	3283.4	3268.9	3162.4	3048.5
15°	3535.2	3518.3	3532.8	3525.6	3503.8	3501.3	3450.5	3377.9	3358.5	3230.2	3089.7
17.5°	3576.4	3566.7	3583.7	3586.1	3576.4	3593.4	3544.9	3457.8	3440.8	3293.1	3126.0
20°	3605.5	3590.9	3610.3	3624.8	3632.1	3666.0	3627.3	3542.5	3523.1	3353.6	3159.9
22.5°	3704.7	3673.3	3675.7	3685.4	3690.2	3738.6	3714.4	3632.1	3612.7	3428.7	3201.1
25°	3954.2	3891.2	3850.0	3821.0	3787.1	3828.2	3813.7	3733.8	3716.9	3518.3	3251.9
27.5°	4341.6	4261.7	4179.3	4094.6	3961.4	3944.5	3920.3	3847.6	3828.2	3607.9	3302.8
30°	4782.3	4702.4	4605.5	4469.9	4220.5	4089.7	4034.1	3954.2	3932.4	3687.8	3351.2
32.5°	5220.5	5150.3	5053.5	4888.8	4532.9	4266.5	4147.9	4065.5	4043.7	3775.0	3409.3
35°	5562.0	5518.4	5455.4	5249.6	4842.8	4474.8	4312.5	4213.2	4189.0	3913.0	3515.9
37.5°	5838.0	5806.5	5753.3	5537.7	5068.0	4683.0	4501.4	4387.6	4360.9	4063.1	3629.7
40°	6244.8	6162.5	6118.9	5806.5	5264.1	4871.9	4714.5	4595.8	4566.8	4222.9	3721.7
42.5°	6591.1	6530.5	6477.3	6046.2	5450.6	5034.1	4915.4	4806.5	4767.7	4380.3	3821.0
45°	6649.2	6673.4	6646.8	6164.9	5746.0	5193.9	5118.8	5048.6	5012.3	4593.4	3971.1
47.5°	6651.6	6651.6	6494.2	6232.7	6111.6	5373.1	5336.8	5361.0	5322.2	4864.6	4150.3
50°	6477.3	6508.7	6426.4	6249.6	6208.5	5552.3	5603.1	5733.9	5695.1	5152.7	4344.0
52.5°	6116.5	6220.6	6218.2	6223.0	6068.0	5704.8	5884.0	6181.8	6116.5	5477.2	4549.8
55°	5479.6	5687.9	5874.3	6034.1	5947.0	5796.8	6227.8	6658.9	6591.1	5840.4	4758.1
57.5°	4934.8	5068.0	5300.5	5753.3	5804.1	5876.7	6549.9	7157.7	7097.1	6242.4	4976.0
60°	4312.5	4496.5	4729.0	5373.1	5629.8	5980.9	6903.4	7644.4	7586.3	6649.2	5186.6
62.5°	3356.1	3593.4	4058.3	4789.5	5375.5	6046.2	7181.9	8073.0	8046.3	7034.2	5375.5
65°	2339.1	2549.7	3201.1	4072.8	4971.1	6017.2	7404.6	8455.5	8431.3	7349.0	5508.7
67.5°	1365.7	1610.2	2346.3	3278.6	4256.8	5816.2	7477.3	8680.7	8680.7	7540.2	5545.0
70°	779.7	893.5	1547.3	2389.9	3264.1	5261.7	7273.9	8678.3	8719.5	7496.7	5394.9
72.5°	544.8	595.7	1041.2	1607.8	2213.2	4256.8	6741.2	8259.4	8315.1	7085.0	4881.5
75°	423.7	460.1	733.7	1096.9	1394.7	2891.2	5576.5	6964.0	7111.7	6039.0	3946.9
77.5°	322.0	348.7	428.6	685.3	893.5	1661.1	3680.5	4566.8	4576.5	3697.5	2116.3
80°	234.9	261.5	285.7	418.9	474.6	777.3	1389.9	1908.1	1854.8	1789.4	1145.3
82.5°	140.4	167.1	174.3	227.6	232.5	331.7	486.7	615.0	590.8	787.0	537.6
85°	60.5	84.7	89.6	104.1	99.3	135.6	193.7	162.2	145.3	167.1	116.2
87.5°	14.5	24.2	24.2	26.6	21.8	33.9	36.3	26.6	24.2	29.1	29.1
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°	2963.8	2963.8	2963.8	2963.8	2963.8	2963.8	2963.8	2963.8	2963.8	2963.8	2963.8
2.5°	2946.8	2939.6	2942.0	2900.8	2888.7	2876.6	2869.4	2864.5	2859.7	2866.9	2874.2
5°	2968.6	2951.7	2932.3	2871.8	2847.6	2820.9	2801.6	2784.6	2777.3	2777.3	2784.6
7.5°	2985.6	2956.5	2915.4	2835.5	2791.9	2755.6	2724.1	2702.3	2690.2	2690.2	2697.4
10°	2988.0	2946.8	2881.5	2784.6	2726.5	2673.2	2636.9	2612.7	2595.7	2595.7	2600.6
12.5°	3002.5	2946.8	2862.1	2745.9	2673.2	2607.9	2564.3	2527.9	2520.7	2520.7	2525.5
15°	3026.8	2959.0	2850.0	2712.0	2624.8	2549.7	2501.3	2462.6	2448.0	2457.7	2460.1
17.5°	3048.5	2966.2	2828.2	2668.4	2564.3	2481.9	2428.7	2394.8	2375.4	2397.2	2397.2
20°	3063.1	2966.2	2796.7	2612.7	2498.9	2406.9	2356.0	2314.9	2300.3	2327.0	2329.4
22.5°	3084.9	2963.8	2762.8	2557.0	2428.7	2331.8	2281.0	2249.5	2242.2	2271.3	2281.0
25°	3109.1	2968.6	2726.5	2494.0	2351.2	2256.7	2218.0	2203.5	2208.3	2244.6	2256.7
27.5°	3135.7	2978.3	2690.2	2423.8	2266.4	2181.7	2159.9	2167.2	2186.5	2232.5	2247.1
30°	3159.9	2980.7	2639.3	2341.5	2169.6	2089.7	2099.4	2130.8	2159.9	2205.9	2222.8
32.5°	3191.4	2983.2	2586.1	2251.9	2065.5	2007.3	2050.9	2101.8	2130.8	2174.4	2193.8
35°	3268.9	3024.3	2544.9	2164.7	1968.6	1937.1	2009.8	2075.1	2092.1	2130.8	2147.8
37.5°	3358.5	3092.1	2523.1	2075.1	1874.2	1866.9	1958.9	2024.3	2029.1	2053.3	2070.3
40°	3414.2	3121.2	2498.9	2000.1	1789.4	1794.3	1888.7	1939.5	1929.9	1946.8	1958.9
42.5°	3469.9	3130.9	2448.0	1937.1	1709.5	1714.4	1787.0	1823.3	1828.2	1864.5	1881.4
45°	3564.3	3157.5	2392.3	1879.0	1636.9	1619.9	1663.5	1711.9	1774.9	1845.1	1864.5
47.5°	3690.2	3213.2	2334.2	1808.8	1566.6	1511.0	1527.9	1612.7	1678.0	1743.4	1755.5
50°	3818.6	3268.9	2281.0	1724.0	1496.4	1394.7	1402.0	1479.5	1532.7	1583.6	1590.9
52.5°	3944.5	3317.3	2235.0	1644.1	1416.5	1256.7	1285.8	1365.7	1402.0	1426.2	1433.5
55°	4070.4	3358.5	2193.8	1576.3	1324.5	1147.7	1174.4	1249.4	1285.8	1297.9	1302.7
57.5°	4201.1	3406.9	2162.3	1518.2	1220.4	1050.9	1067.8	1121.1	1155.0	1169.5	1164.7
60°	4310.1	3448.1	2145.4	1457.7	1116.3	961.3	956.5	1004.9	1053.3	1067.8	1063.0
62.5°	4394.8	3474.7	2118.7	1380.2	1024.3	871.7	847.5	910.4	961.3	971.0	978.2
65°	4440.9	3477.1	2053.3	1280.9	929.8	774.8	757.9	820.9	852.3	862.0	862.0
67.5°	4433.6	3438.4	1925.0	1147.7	842.6	687.7	673.1	711.9	757.9	765.2	757.9
70°	4283.5	3278.6	1719.2	1007.3	738.5	610.2	583.6	622.3	665.9	639.3	627.1
72.5°	3857.3	2864.5	1416.5	852.3	622.3	513.3	501.2	540.0	542.4	547.2	535.1
75°	3043.7	2133.3	1060.6	663.5	503.7	431.0	428.6	421.3	431.0	450.4	435.9
77.5°	1598.1	1065.4	573.9	406.8	365.6	346.3	329.3	326.9	355.9	368.1	353.5
80°	866.9	598.1	329.3	244.6	222.8	225.2	247.0	242.1	273.6	280.9	268.8
82.5°	377.7	283.3	162.2	147.7	147.7	145.3	152.5	169.5	203.4	203.4	162.2
85°	82.3	70.2	63.0	72.6	82.3	82.3	82.3	82.3	58.1	31.5	21.8
87.5°	26.6	26.6	26.6	29.1	31.5	31.5	26.6	19.4	12.1	2.4	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)