

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: P836385

Luminaire Tested: **ARCH3-180-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836385
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: ARCH3-180-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20443 lumens
Efficiency: N/A
Efficacy: 113.3 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): 180.5
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

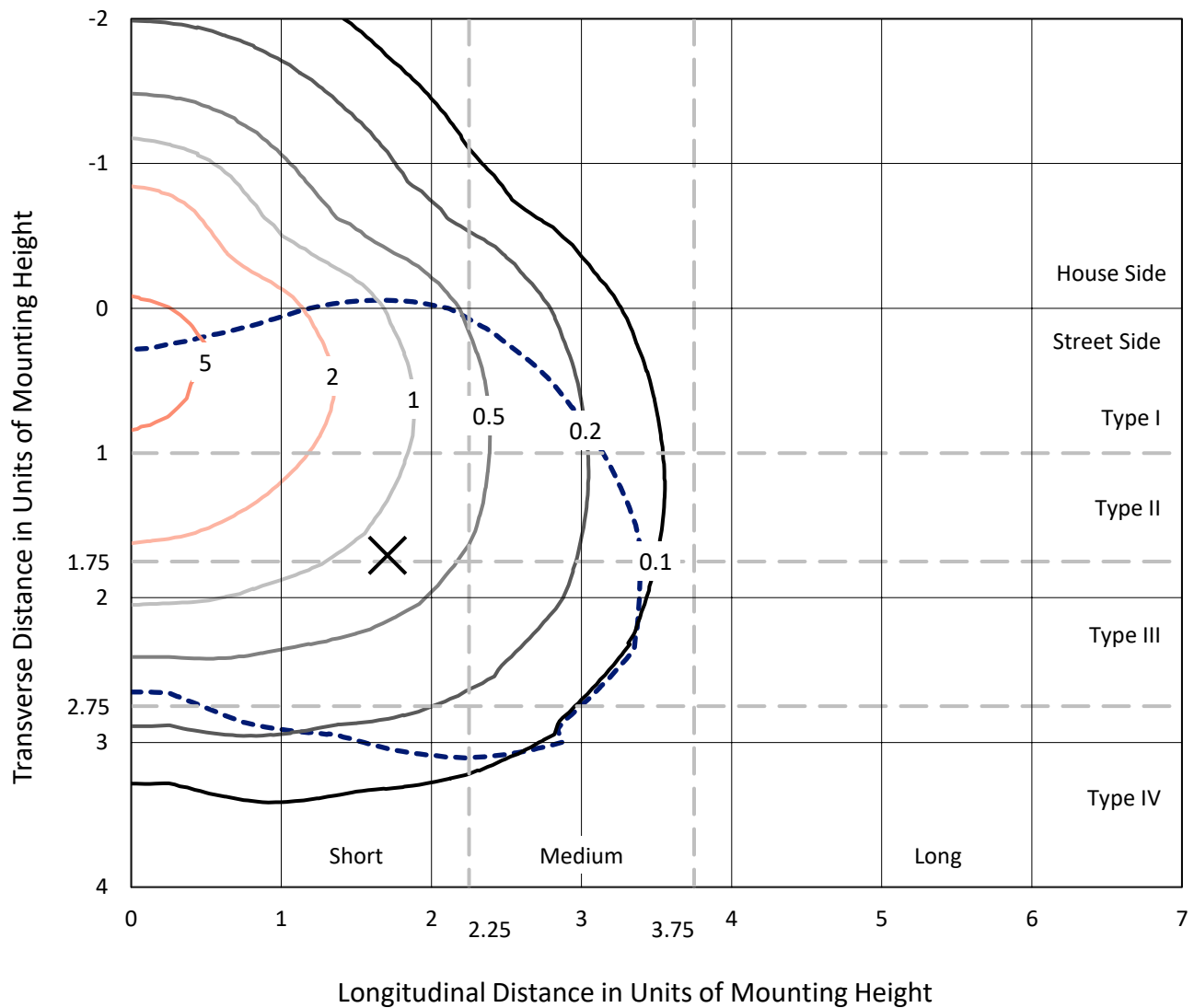


REPORT NUMBER: P836385

CATALOG NUMBER: ARCH3-180-722-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

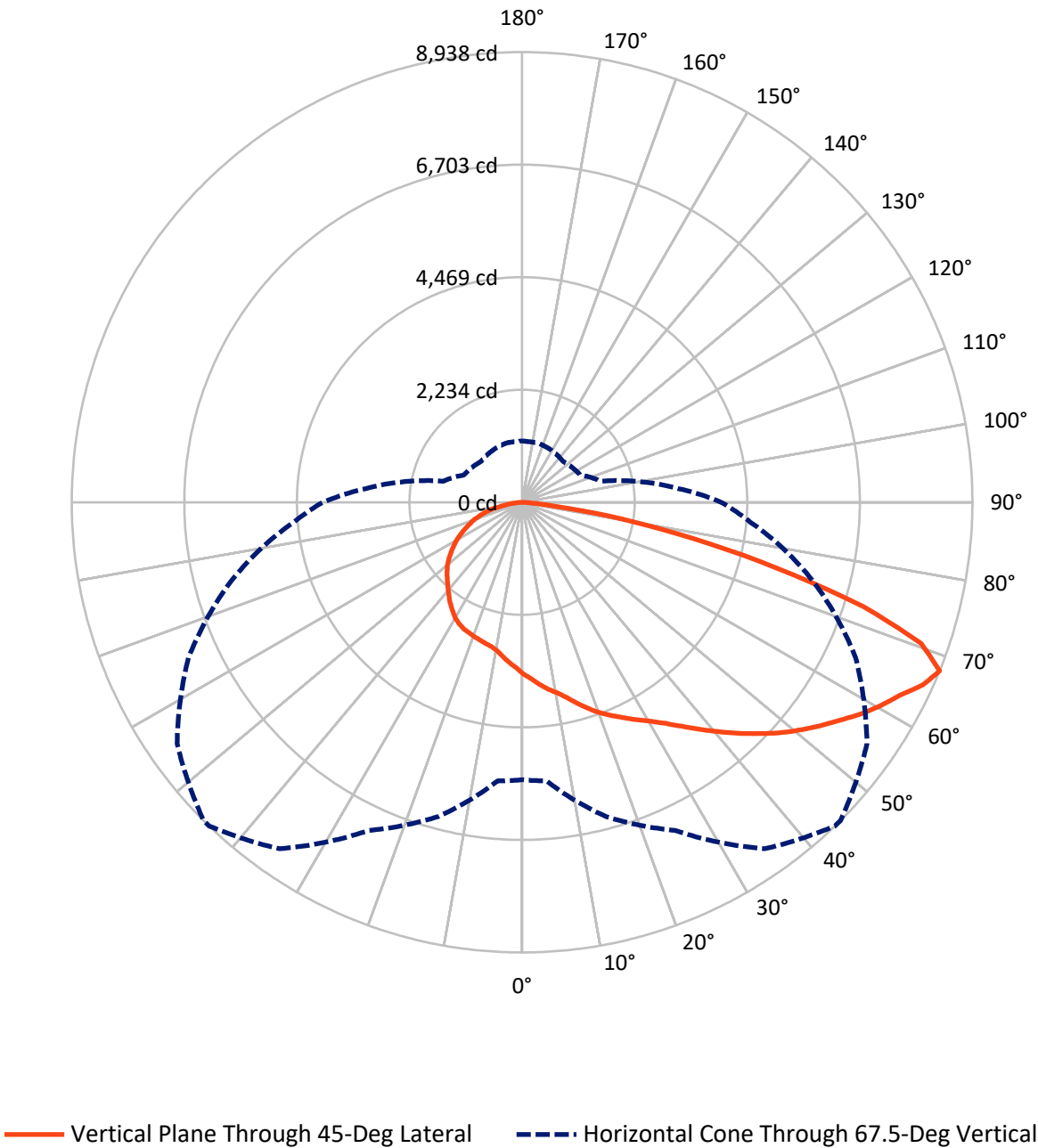
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type IV - Short - N/A

REPORT NUMBER: P836385
CATALOG NUMBER: ARCH3-180-722-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P836385

CATALOG NUMBER: ARCH3-180-722-U-T4W

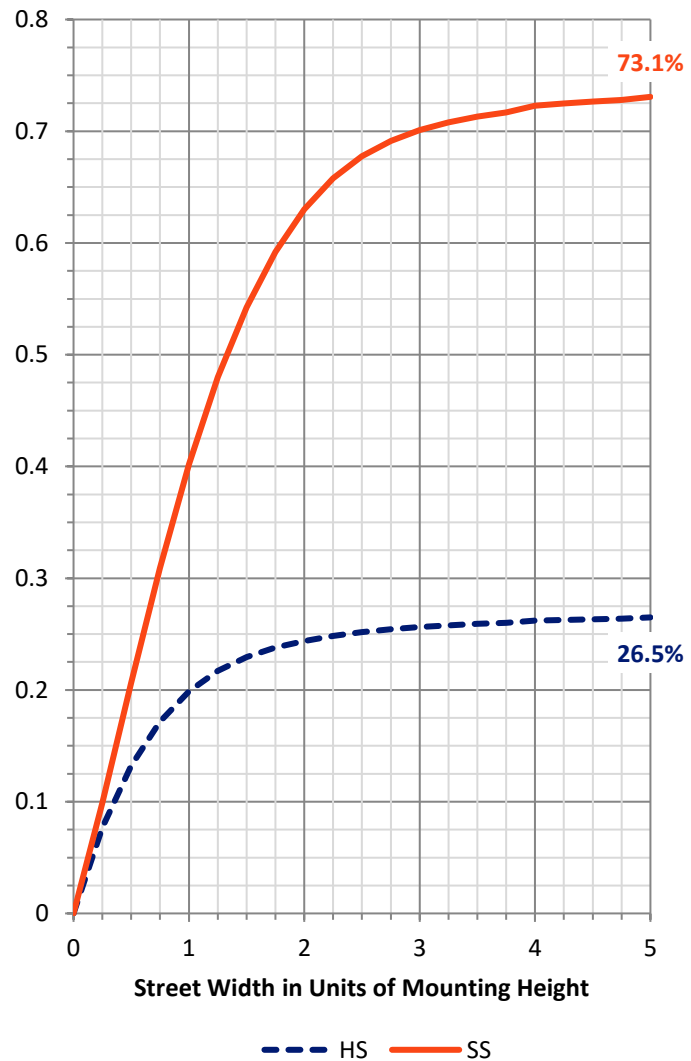
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5461.4	0.0	5461.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	14981.6	0.0	14981.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	20443.0	0.0	20443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	1.6
10°-20°	1008.4	4.9
20°-30°	1740.7	8.5
30°-40°	2566.9	12.6
40°-50°	3477.6	17.0
50°-60°	4250.4	20.8
60°-70°	4383.7	21.4
70°-80°	2401.1	11.7
80°-90°	287.8	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°	20443.0	100.0
0°-180°	20443.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836385

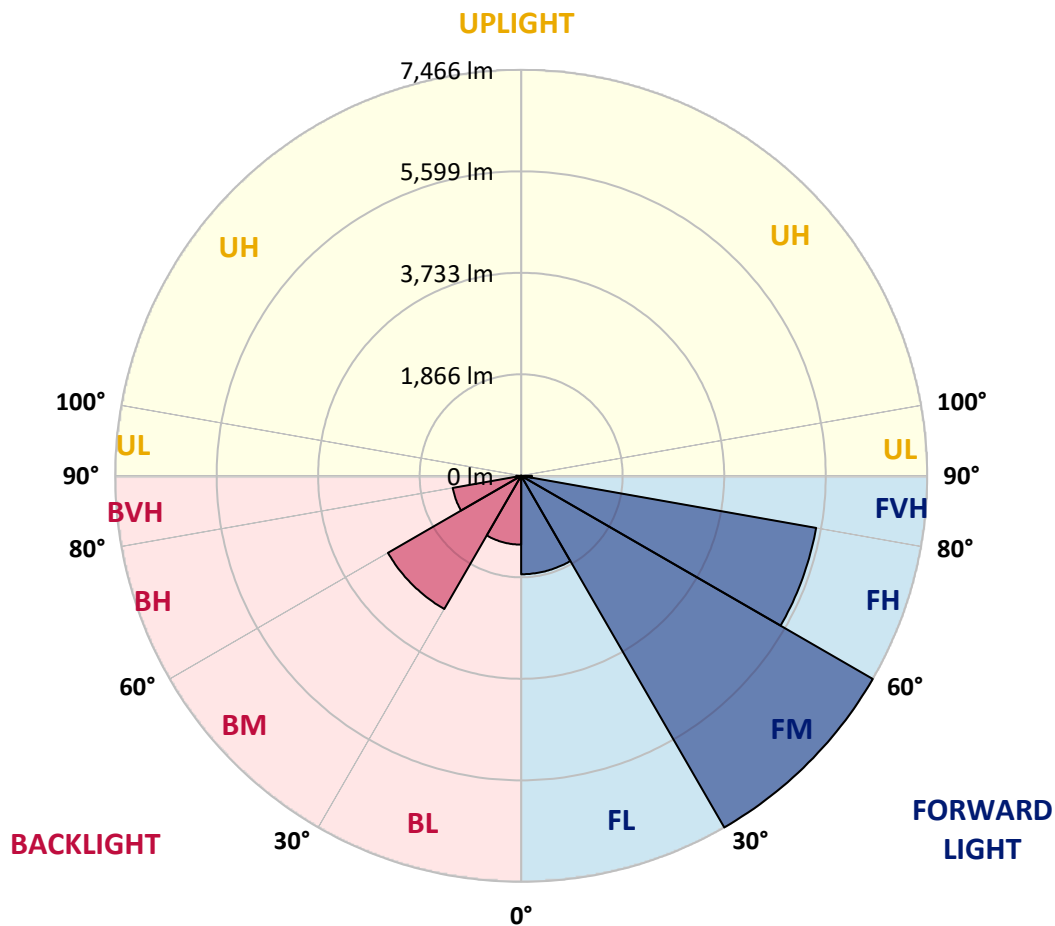
CATALOG NUMBER: ARCH3-180-722-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1809.8	8.9			
FM	(30°-60°)	7466.0	36.5			
FH	(60°-80°)	5507.6	26.9			G3/7500
FVH	(80°-90°)	198.3	1.0			G2/225
BL	(0°-30°)	1265.8	6.2	B3/2500		
BM	(30°-60°)	2828.9	13.8	B3/5000		
BH	(60°-80°)	1277.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	89.5	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



REPORT NUMBER: P836385

CATALOG NUMBER: ARCH3-180-722-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3409.5	3409.5	3409.5	3409.5	3409.5	3409.5	3409.5	3409.5	3409.5	3409.5	3409.5
2.5°	3558.8	3555.7	3561.9	3540.2	3512.2	3509.1	3509.1	3490.4	3468.6	3425.1	3390.8
5°	3726.8	3720.6	3723.7	3692.6	3655.3	3636.6	3633.5	3593.0	3543.3	3474.8	3412.6
7.5°	3882.4	3876.1	3873.0	3838.8	3782.8	3751.7	3748.6	3689.5	3630.4	3524.6	3434.4
10°	4028.6	4022.3	4016.1	3969.5	3901.0	3854.4	3848.1	3773.5	3698.8	3568.2	3453.1
12.5°	4215.2	4202.8	4196.6	4140.6	4041.0	3991.2	3981.9	3882.4	3789.0	3630.4	3490.4
15°	4411.2	4401.9	4392.5	4339.7	4227.7	4162.3	4146.8	4022.3	3894.8	3711.3	3546.4
17.5°	4557.4	4548.1	4548.1	4501.4	4398.8	4324.1	4311.7	4162.3	4003.7	3785.9	3589.9
20°	4647.6	4638.3	4647.6	4619.6	4541.9	4479.6	4467.2	4302.3	4112.6	3854.4	3627.3
22.5°	4713.0	4703.6	4719.2	4706.7	4650.7	4613.4	4604.1	4442.3	4224.6	3925.9	3664.6
25°	4828.1	4828.1	4828.1	4806.3	4753.4	4741.0	4741.0	4601.0	4367.7	4019.2	3720.6
27.5°	5058.3	5045.8	5030.3	4968.0	4877.8	4874.7	4893.4	4762.7	4532.5	4140.6	3789.0
30°	5397.3	5391.1	5332.0	5201.4	5048.9	5033.4	5045.8	4936.9	4709.8	4268.1	3866.8
32.5°	5836.0	5814.2	5692.9	5496.9	5279.1	5207.6	5232.5	5117.4	4896.5	4398.8	3941.5
35°	6147.1	6153.3	6066.2	5888.9	5630.7	5440.9	5459.6	5319.6	5098.7	4545.0	4034.8
37.5°	6504.8	6526.6	6395.9	6262.2	6022.6	5699.1	5717.8	5528.0	5300.9	4728.5	4134.3
40°	6999.4	6955.9	6735.0	6576.4	6311.9	5969.7	5985.3	5761.3	5534.2	4902.7	4249.4
42.5°	7413.2	7335.4	7067.9	6865.7	6548.4	6255.9	6271.5	6013.3	5770.6	5095.6	4377.0
45°	8007.4	7792.7	7407.0	7307.4	6791.0	6535.9	6551.5	6280.8	6019.5	5300.9	4513.9
47.5°	8352.7	8010.5	7764.7	7711.8	7058.5	6825.2	6843.9	6563.9	6287.1	5534.2	4657.0
50°	8330.9	8110.0	8038.5	7907.8	7295.0	7095.9	7114.5	6856.3	6557.7	5764.4	4793.8
52.5°	8187.8	8228.2	8190.9	7973.1	7531.4	7357.2	7379.0	7145.6	6834.6	5979.1	4921.4
55°	8408.7	8436.7	8365.1	8078.9	7792.7	7618.5	7643.4	7450.5	7108.3	6168.8	5030.3
57.5°	8673.1	8573.5	8502.0	8265.6	8063.4	7901.6	7929.6	7761.6	7344.7	6321.3	5114.3
60°	8660.6	8452.2	8523.8	8278.0	8246.9	8162.9	8187.8	8016.7	7525.2	6433.3	5148.5
62.5°	8022.9	7910.9	8271.8	8187.8	8396.2	8396.2	8427.3	8172.2	7634.1	6479.9	5129.8
65°	6915.4	6921.7	7556.3	7904.7	8573.5	8716.6	8741.5	8268.7	7571.8	6343.0	4955.6
67.5°	5509.3	5549.8	6461.3	7186.1	8396.2	8934.4	8937.5	8355.8	7304.3	5957.3	4551.2
70°	4031.7	4062.8	5139.1	6019.5	7559.4	8452.2	8402.4	8110.0	6722.6	5285.4	3919.7
72.5°	2725.1	2753.1	3860.6	4622.7	6203.1	7198.5	7089.7	7167.4	5730.2	4342.8	3151.3
75°	1832.3	1866.5	2746.9	3306.8	4563.6	5465.8	5223.1	5428.5	4433.0	3288.2	2298.9
77.5°	1154.1	1175.9	1745.2	2168.3	3117.1	3720.6	3477.9	3481.1	2554.0	1770.1	1235.0
80°	734.2	740.4	1057.7	1250.6	1804.3	2236.7	1978.5	1608.3	1151.0	939.5	737.3
82.5°	426.2	416.9	631.5	706.2	858.6	849.3	703.1	665.7	504.0	469.7	376.4
85°	171.1	158.7	276.9	258.2	261.3	276.9	205.3	205.3	164.9	127.5	93.3
87.5°	34.2	34.2	37.3	34.2	34.2	37.3	28.0	28.0	24.9	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P836385

CATALOG NUMBER: ARCH3-180-722-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3409.5	3409.5	3409.5	3409.5	3409.5	3409.5	3409.5	3409.5	3409.5	3409.5	3409.5
2.5°	3384.6	3378.4	3362.8	3322.4	3300.6	3288.2	3269.5	3263.3	3260.2	3263.3	3272.6
5°	3394.0	3372.2	3328.6	3263.3	3219.7	3191.7	3160.6	3148.2	3138.9	3138.9	3148.2
7.5°	3400.2	3366.0	3291.3	3194.9	3132.6	3089.1	3051.8	3036.2	3033.1	3042.4	3045.5
10°	3403.3	3353.5	3247.7	3126.4	3045.5	2989.5	2952.2	2942.9	2952.2	2970.9	2974.0
12.5°	3425.1	3356.6	3222.9	3079.8	2983.3	2927.3	2899.3	2899.3	2924.2	2958.4	2961.5
15°	3462.4	3378.4	3210.4	3042.4	2942.9	2893.1	2883.8	2899.3	2936.7	2989.5	2995.8
17.5°	3490.4	3390.8	3182.4	2992.6	2890.0	2858.9	2874.4	2911.8	2964.7	3036.2	3042.4
20°	3509.1	3390.8	3142.0	2933.5	2837.1	2830.9	2874.4	2933.5	2989.5	3073.5	3082.9
22.5°	3527.7	3384.6	3095.3	2862.0	2778.0	2796.7	2877.5	2952.2	3008.2	3098.4	3114.0
25°	3561.9	3394.0	3048.6	2790.4	2715.8	2768.7	2874.4	2964.7	3023.8	3117.1	3142.0
27.5°	3608.6	3415.7	3014.4	2725.1	2653.6	2725.1	2852.7	2961.5	3023.8	3114.0	3142.0
30°	3658.4	3440.6	2974.0	2653.6	2582.0	2662.9	2806.0	2927.3	2998.9	3082.9	3117.1
32.5°	3711.3	3468.6	2939.8	2575.8	2494.9	2578.9	2737.6	2874.4	2952.2	3030.0	3067.3
35°	3782.8	3518.4	2921.1	2513.6	2417.1	2491.8	2650.5	2806.0	2890.0	2961.5	3005.1
37.5°	3869.9	3580.6	2911.8	2451.4	2333.1	2395.4	2557.1	2722.0	2812.2	2871.3	2911.8
40°	3969.5	3658.4	2908.7	2392.3	2249.2	2295.8	2460.7	2625.6	2712.7	2759.3	2793.6
42.5°	4081.5	3745.5	2902.4	2333.1	2165.2	2202.5	2367.4	2529.1	2603.8	2644.2	2675.3
45°	4199.7	3832.6	2890.0	2261.6	2074.9	2118.5	2270.9	2414.0	2491.8	2526.0	2560.2
47.5°	4317.9	3919.7	2865.1	2180.7	1994.1	2034.5	2168.3	2292.7	2354.9	2386.0	2420.3
50°	4433.0	3997.5	2806.0	2087.4	1910.1	1947.4	2050.1	2134.1	2180.7	2205.6	2239.8
52.5°	4535.6	4050.3	2722.0	1978.5	1826.1	1844.7	1913.2	1984.7	2022.1	2025.2	2056.3
55°	4622.7	4078.3	2600.7	1866.5	1735.9	1739.0	1776.3	1832.3	1847.9	1835.4	1857.2
57.5°	4672.5	4062.8	2466.9	1751.4	1642.5	1630.1	1658.1	1686.1	1689.2	1658.1	1679.9
60°	4685.0	3991.2	2292.7	1636.3	1549.2	1515.0	1524.3	1518.1	1511.9	1499.4	1518.1
62.5°	4622.7	3838.8	2099.8	1524.3	1449.7	1396.8	1393.7	1390.6	1399.9	1403.0	1406.1
65°	4395.6	3552.6	1869.6	1409.2	1343.9	1272.3	1269.2	1306.6	1319.0	1300.3	1306.6
67.5°	3957.0	3114.0	1617.6	1275.5	1210.1	1147.9	1172.8	1194.6	1216.3	1210.1	1216.3
70°	3334.8	2557.1	1387.4	1126.1	1063.9	1029.7	1057.7	1076.4	1079.5	1073.2	1079.5
72.5°	2622.5	1997.2	1172.8	973.7	917.7	902.1	936.4	951.9	979.9	992.4	995.5
75°	1894.5	1474.5	961.3	808.8	762.2	762.2	793.3	821.3	846.2	830.6	821.3
77.5°	1057.7	880.4	690.6	556.8	566.2	609.7	622.2	653.3	678.2	675.1	668.8
80°	640.8	550.6	466.6	360.9	357.7	392.0	472.9	525.7	538.2	510.2	507.1
82.5°	332.9	289.3	248.9	202.2	224.0	261.3	273.8	329.8	364.0	351.5	367.1
85°	84.0	80.9	90.2	93.3	115.1	127.5	140.0	164.9	108.9	52.9	52.9
87.5°	24.9	24.9	31.1	31.1	40.4	49.8	46.7	46.7	24.9	3.1	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)