

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: P835960

Luminaire Tested: **ARCH3-120-727-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835960
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: ARCH3-120-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17705 lumens
Efficiency: N/A
Efficacy: 144.3 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): 122.7
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



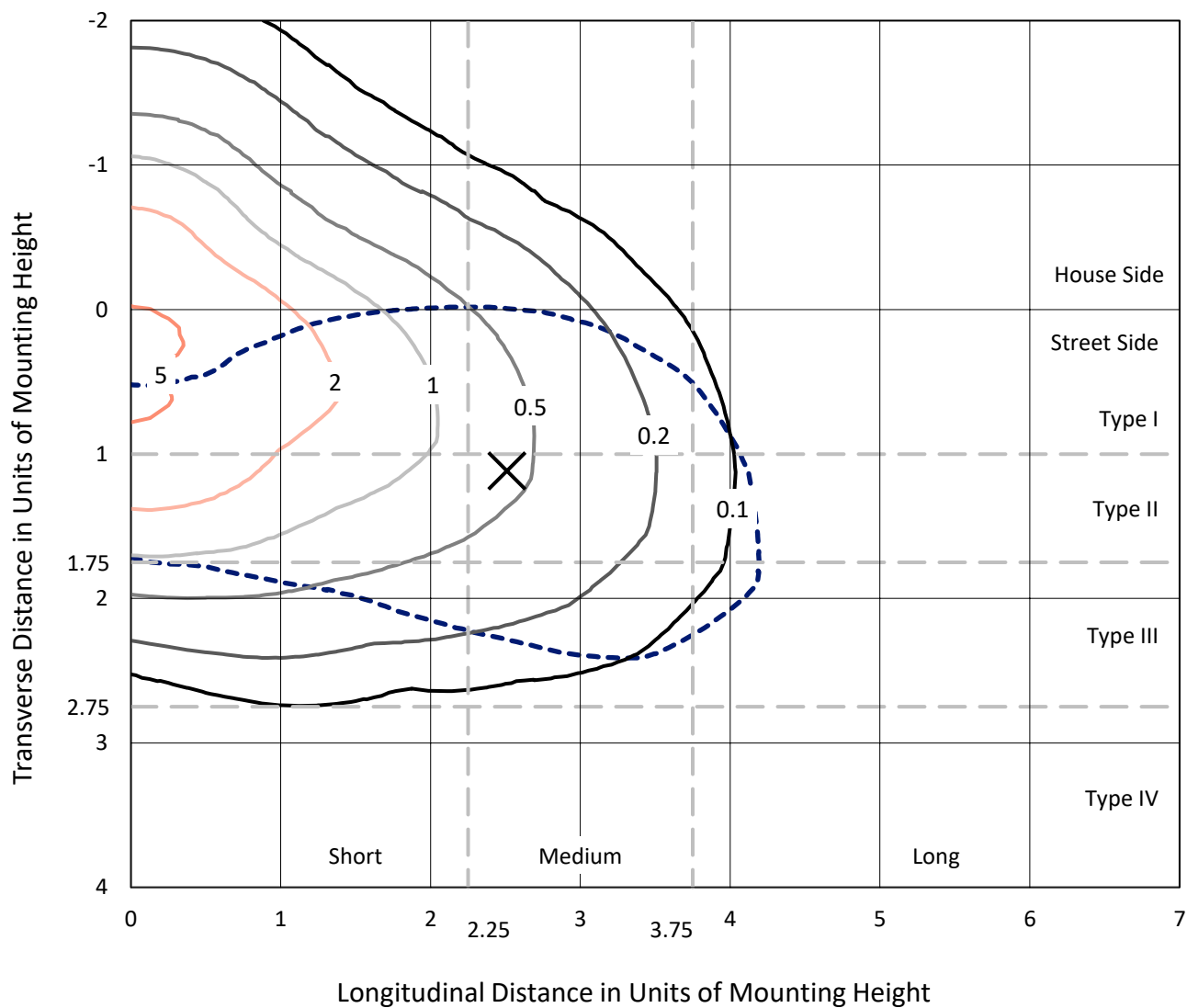
REPORT NUMBER: P835960

CATALOG NUMBER: ARCH3-120-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

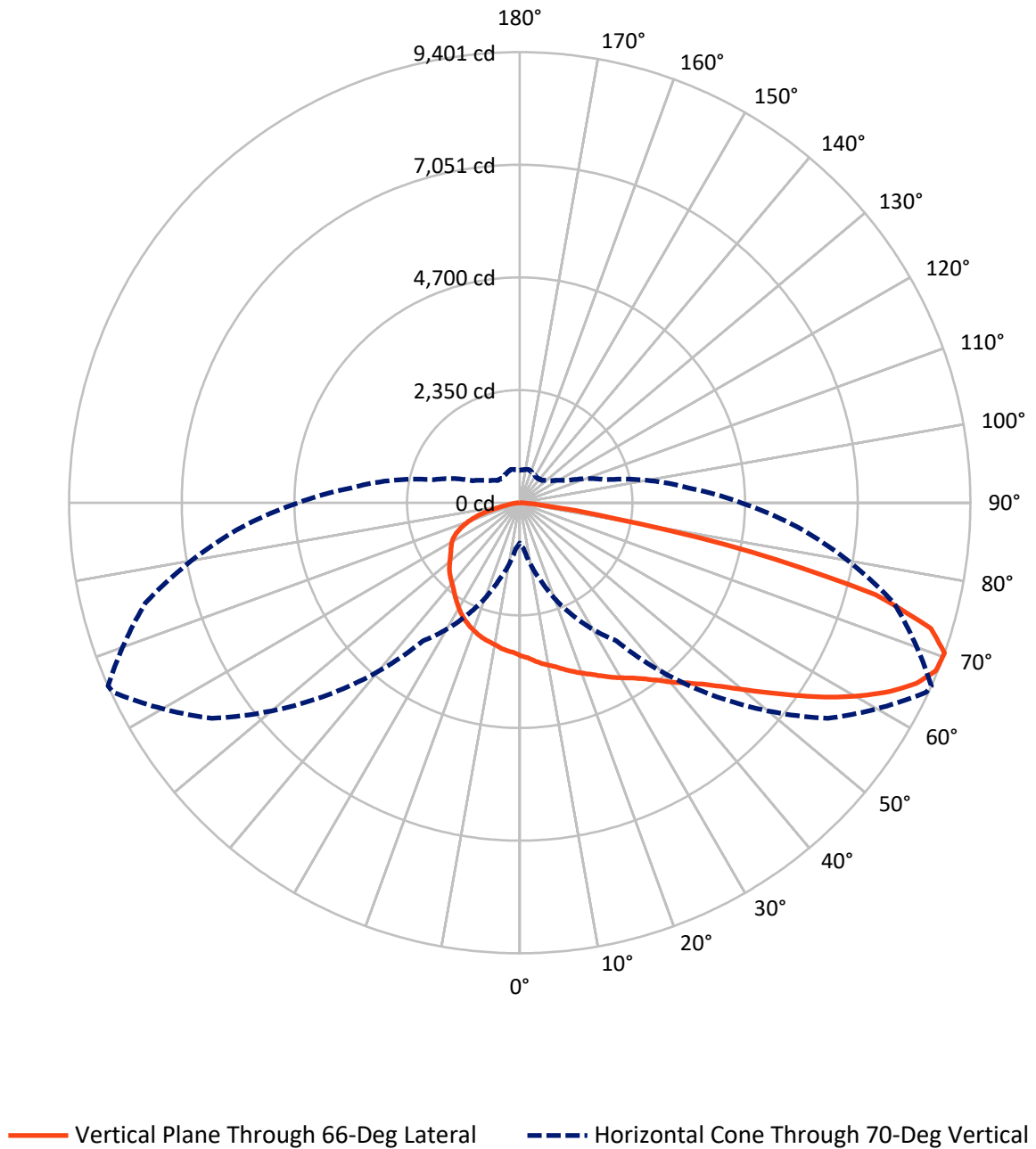


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type III - Medium - N/A

REPORT NUMBER: P835960

CATALOG NUMBER: ARCH3-120-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P835960

CATALOG NUMBER: ARCH3-120-727-U-T3

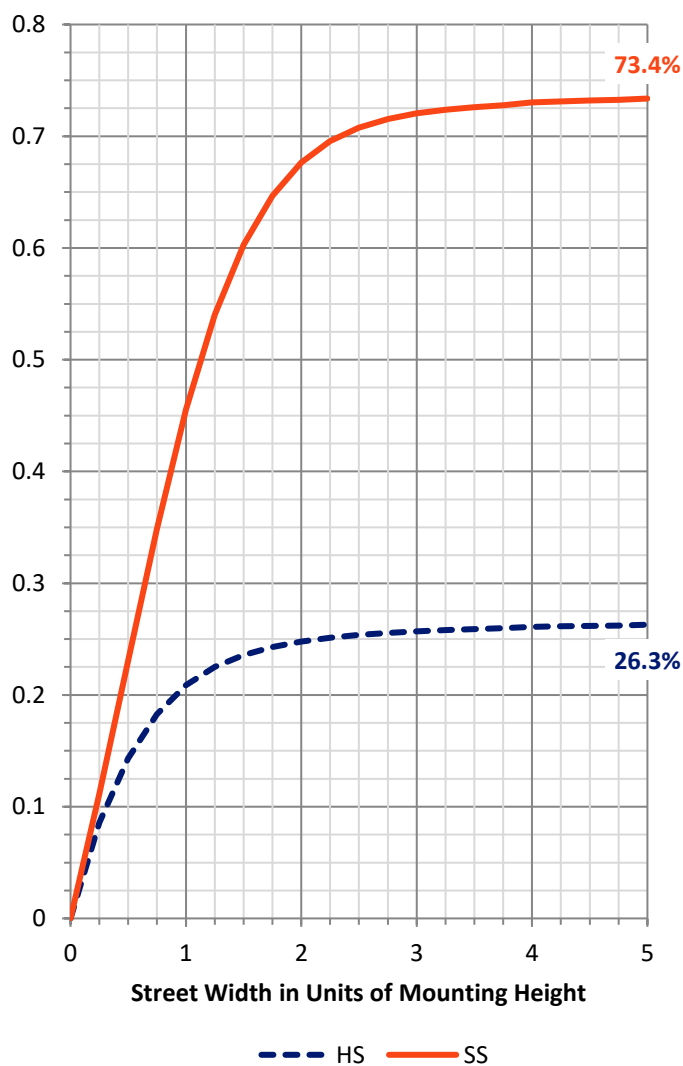
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4691.4	0.0	4691.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	13013.6	0.0	13013.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	17705.0	0.0	17705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.0	1.7
10°-20°	921.0	5.2
20°-30°	1543.9	8.7
30°-40°	2311.7	13.1
40°-50°	3090.8	17.5
50°-60°	3608.6	20.4
60°-70°	3588.2	20.3
70°-80°	2124.3	12.0
80°-90°	209.4	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°	17705.0	100.0
0°-180°	17705.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835960

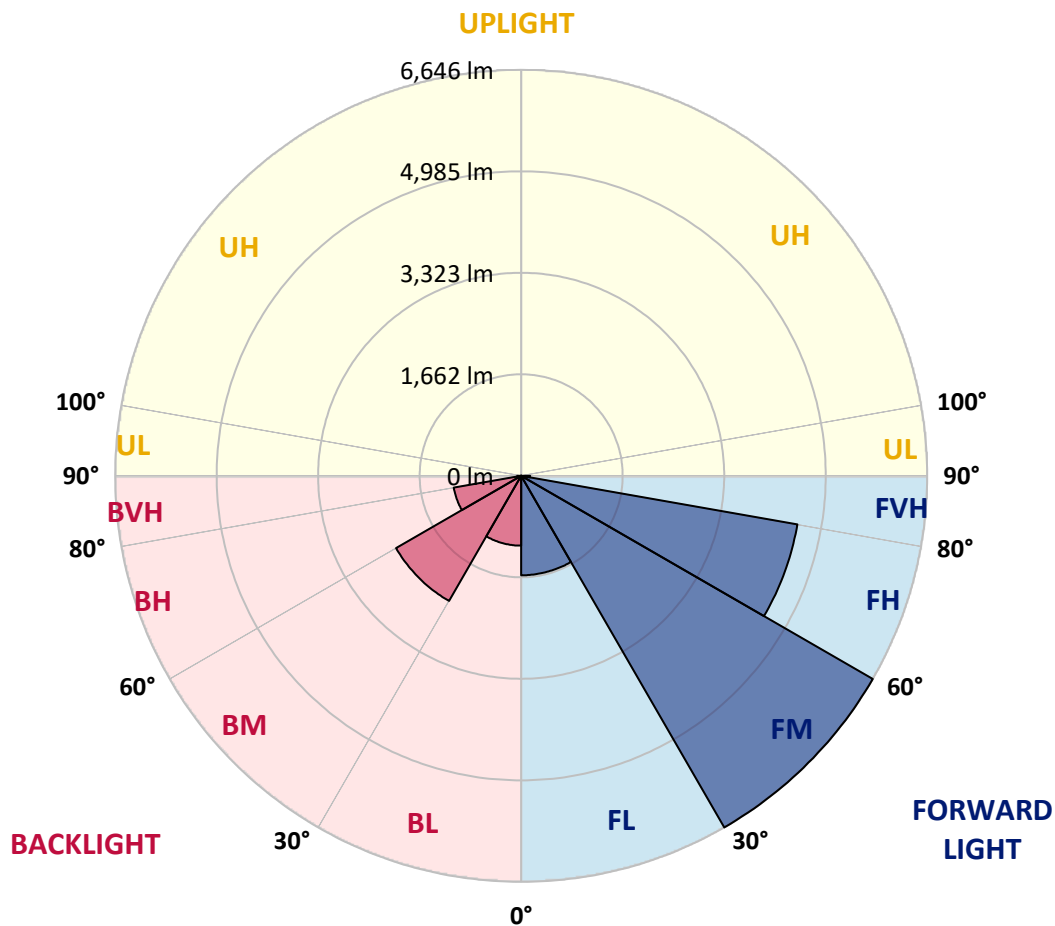
CATALOG NUMBER: ARCH3-120-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1628.4	9.2			
FM	(30°-60°)	6646.2	37.5			
FH	(60°-80°)	4591.8	25.9			G2/5000
FVH	(80°-90°)	147.1	0.8			G2/225
BL	(0°-30°)	1143.6	6.5	B3/2500		
BM	(30°-60°)	2365.0	13.4	B2/2500		
BH	(60°-80°)	1120.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	62.2	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



REPORT NUMBER: P835960

CATALOG NUMBER: ARCH3-120-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3195.3	3195.3	3195.3	3195.3	3195.3	3195.3	3195.3	3195.3	3195.3	3195.3	3195.3
2.5°	3312.8	3307.6	3305.0	3294.6	3271.1	3281.5	3258.0	3242.3	3239.7	3203.2	3182.3
5°	3448.6	3446.0	3440.7	3425.1	3388.5	3393.8	3354.6	3325.9	3318.0	3260.6	3216.2
7.5°	3563.4	3558.2	3555.6	3534.7	3495.6	3493.0	3446.0	3404.2	3391.1	3312.8	3245.0
10°	3652.2	3644.4	3649.6	3628.7	3586.9	3579.1	3519.1	3464.2	3451.2	3352.0	3258.0
12.5°	3727.9	3722.7	3730.5	3712.2	3678.3	3670.5	3610.4	3539.9	3524.3	3409.4	3286.7
15°	3811.4	3793.2	3808.8	3801.0	3777.5	3774.9	3720.1	3641.8	3620.9	3482.5	3331.1
17.5°	3855.8	3845.4	3863.7	3866.3	3855.8	3874.1	3821.9	3727.9	3709.6	3550.4	3370.3
20°	3887.2	3871.5	3892.4	3908.0	3915.9	3952.4	3910.6	3819.3	3798.4	3615.7	3406.8
22.5°	3994.2	3960.2	3962.9	3973.3	3978.5	4030.7	4004.6	3915.9	3895.0	3696.6	3451.2
25°	4263.1	4195.2	4150.8	4119.5	4082.9	4127.3	4111.7	4025.5	4007.2	3793.2	3506.0
27.5°	4680.8	4594.6	4505.9	4414.5	4270.9	4252.6	4226.5	4148.2	4127.3	3889.8	3560.8
30°	5155.9	5069.7	4965.3	4819.1	4550.2	4409.3	4349.2	4263.1	4239.6	3975.9	3613.0
32.5°	5628.4	5552.7	5448.3	5270.8	4887.0	4599.8	4471.9	4383.2	4359.7	4069.9	3675.7
35°	5996.5	5949.5	5881.6	5659.7	5221.2	4824.4	4649.4	4542.4	4516.3	4218.7	3790.6
37.5°	6294.1	6260.2	6202.7	5970.4	5463.9	5048.9	4853.1	4730.4	4701.7	4380.6	3913.3
40°	6732.7	6643.9	6596.9	6260.2	5675.4	5252.5	5082.8	4954.9	4923.6	4552.9	4012.5
42.5°	7106.0	7040.7	6983.3	6518.6	5876.4	5427.4	5299.5	5182.0	5140.2	4722.5	4119.5
45°	7168.7	7194.8	7166.0	6646.5	6194.9	5599.7	5518.8	5443.1	5403.9	4952.3	4281.4
47.5°	7171.3	7171.3	7001.6	6719.6	6589.1	5792.9	5753.7	5779.8	5738.1	5244.7	4474.5
50°	6983.3	7017.2	6928.5	6737.9	6693.5	5986.1	6040.9	6181.9	6140.1	5555.3	4683.4
52.5°	6594.3	6706.6	6704.0	6709.2	6542.1	6150.5	6343.7	6664.8	6594.3	5905.1	4905.3
55°	5907.7	6132.3	6333.3	6505.6	6411.6	6249.7	6714.4	7179.1	7106.0	6296.7	5129.8
57.5°	5320.4	5463.9	5714.6	6202.7	6257.6	6335.9	7061.6	7716.9	7651.6	6730.1	5364.7
60°	4649.4	4847.8	5098.5	5792.9	6069.6	6448.1	7442.8	8241.6	8178.9	7168.7	5591.9
62.5°	3618.3	3874.1	4375.3	5163.7	5795.5	6518.6	7743.0	8703.7	8675.0	7583.7	5795.5
65°	2521.8	2748.9	3451.2	4391.0	5359.5	6487.3	7983.2	9116.1	9090.0	7923.1	5939.1
67.5°	1472.4	1736.0	2529.7	3534.7	4589.4	6270.6	8061.5	9358.9	9358.9	8129.3	5978.2
70°	840.6	963.3	1668.2	2576.6	3519.1	5672.8	7842.2	9356.3	9400.7	8082.4	5816.4
72.5°	587.4	642.2	1122.5	1733.4	2386.1	4589.4	7267.9	8904.7	8964.7	7638.6	5262.9
75°	456.9	496.0	791.0	1182.6	1503.7	3117.0	6012.2	7508.0	7667.3	6510.8	4255.2
77.5°	347.2	375.9	462.1	738.8	963.3	1790.9	3968.1	4923.6	4934.0	3986.4	2281.6
80°	253.2	281.9	308.0	451.6	511.7	838.0	1498.5	2057.1	1999.7	1929.2	1234.8
82.5°	151.4	180.1	188.0	245.4	250.6	357.6	524.7	663.1	637.0	848.4	579.5
85°	65.3	91.4	96.6	112.3	107.0	146.2	208.8	174.9	156.6	180.1	125.3
87.5°	15.7	26.1	26.1	28.7	23.5	36.5	39.2	28.7	26.1	31.3	31.3
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: P835960

CATALOG NUMBER: ARCH3-120-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3195.3	3195.3	3195.3	3195.3	3195.3	3195.3	3195.3	3195.3	3195.3	3195.3	3195.3
2.5°	3177.1	3169.2	3171.9	3127.5	3114.4	3101.4	3093.5	3088.3	3083.1	3090.9	3098.8
5°	3200.6	3182.3	3161.4	3096.1	3070.0	3041.3	3020.4	3002.2	2994.3	2994.3	3002.2
7.5°	3218.8	3187.5	3143.1	3057.0	3010.0	2970.8	2936.9	2913.4	2900.4	2900.4	2908.2
10°	3221.5	3177.1	3106.6	3002.2	2939.5	2882.1	2842.9	2816.8	2798.5	2798.5	2803.8
12.5°	3237.1	3177.1	3085.7	2960.4	2882.1	2811.6	2764.6	2725.4	2717.6	2717.6	2722.8
15°	3263.2	3190.1	3072.7	2923.8	2829.9	2748.9	2696.7	2655.0	2639.3	2649.7	2652.3
17.5°	3286.7	3198.0	3049.2	2876.9	2764.6	2675.8	2618.4	2581.9	2561.0	2584.5	2584.5
20°	3302.4	3198.0	3015.2	2816.8	2694.1	2594.9	2540.1	2495.7	2480.1	2508.8	2511.4
22.5°	3325.9	3195.3	2978.7	2756.8	2618.4	2514.0	2459.2	2425.2	2417.4	2448.7	2459.2
25°	3352.0	3200.6	2939.5	2688.9	2534.9	2433.1	2391.3	2375.6	2380.8	2420.0	2433.1
27.5°	3380.7	3211.0	2900.4	2613.2	2443.5	2352.1	2328.6	2336.5	2357.4	2407.0	2422.6
30°	3406.8	3213.6	2845.5	2524.4	2339.1	2252.9	2263.4	2297.3	2328.6	2378.2	2396.5
32.5°	3440.7	3216.2	2788.1	2427.8	2226.8	2164.2	2211.2	2266.0	2297.3	2344.3	2365.2
35°	3524.3	3260.6	2743.7	2333.9	2122.4	2088.5	2166.8	2237.3	2255.5	2297.3	2315.6
37.5°	3620.9	3333.7	2720.2	2237.3	2020.6	2012.8	2112.0	2182.4	2187.7	2213.8	2232.0
40°	3680.9	3365.0	2694.1	2156.3	1929.2	1934.4	2036.3	2091.1	2080.6	2098.9	2112.0
42.5°	3741.0	3375.5	2639.3	2088.5	1843.1	1848.3	1926.6	1965.8	1971.0	2010.1	2028.4
45°	3842.8	3404.2	2579.3	2025.8	1764.8	1746.5	1793.5	1845.7	1913.6	1989.3	2010.1
47.5°	3978.5	3464.2	2516.6	1950.1	1689.0	1629.0	1647.3	1738.6	1809.1	1879.6	1892.7
50°	4116.9	3524.3	2459.2	1858.7	1613.3	1503.7	1511.5	1595.1	1652.5	1707.3	1715.2
52.5°	4252.6	3576.5	2409.6	1772.6	1527.2	1354.9	1386.2	1472.4	1511.5	1537.6	1545.5
55°	4388.4	3620.9	2365.2	1699.5	1428.0	1237.4	1266.1	1347.1	1386.2	1399.3	1404.5
57.5°	4529.4	3673.1	2331.2	1636.8	1315.7	1133.0	1151.3	1208.7	1245.2	1260.9	1255.7
60°	4646.8	3717.5	2313.0	1571.6	1203.5	1036.4	1031.2	1083.4	1135.6	1151.3	1146.0
62.5°	4738.2	3746.2	2284.3	1488.0	1104.3	939.8	913.7	981.6	1036.4	1046.8	1054.7
65°	4787.8	3748.8	2213.8	1381.0	1002.5	835.4	817.1	885.0	918.9	929.4	929.4
67.5°	4780.0	3707.0	2075.4	1237.4	908.5	741.4	725.7	767.5	817.1	824.9	817.1
70°	4618.1	3534.7	1853.5	1086.0	796.2	657.9	629.1	670.9	717.9	689.2	676.1
72.5°	4158.7	3088.3	1527.2	918.9	670.9	553.4	540.4	582.2	584.8	590.0	576.9
75°	3281.5	2299.9	1143.4	715.3	543.0	464.7	462.1	454.2	464.7	485.6	469.9
77.5°	1723.0	1148.7	618.7	438.6	394.2	373.3	355.0	352.4	383.8	396.8	381.1
80°	934.6	644.8	355.0	263.7	240.2	242.8	266.3	261.1	295.0	302.8	289.8
82.5°	407.3	305.4	174.9	159.2	159.2	156.6	164.5	182.7	219.3	219.3	174.9
85°	88.8	75.7	67.9	78.3	88.8	88.8	88.8	88.8	62.7	33.9	23.5
87.5°	28.7	28.7	28.7	31.3	33.9	33.9	28.7	20.9	13.1	2.6	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)