

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: P237099

Luminaire Tested: **ARCH-L-AF72-260-D-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29572.5 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 261
Input Voltage (V): NR
Input Current (A_{in}): 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: 28.75 FT

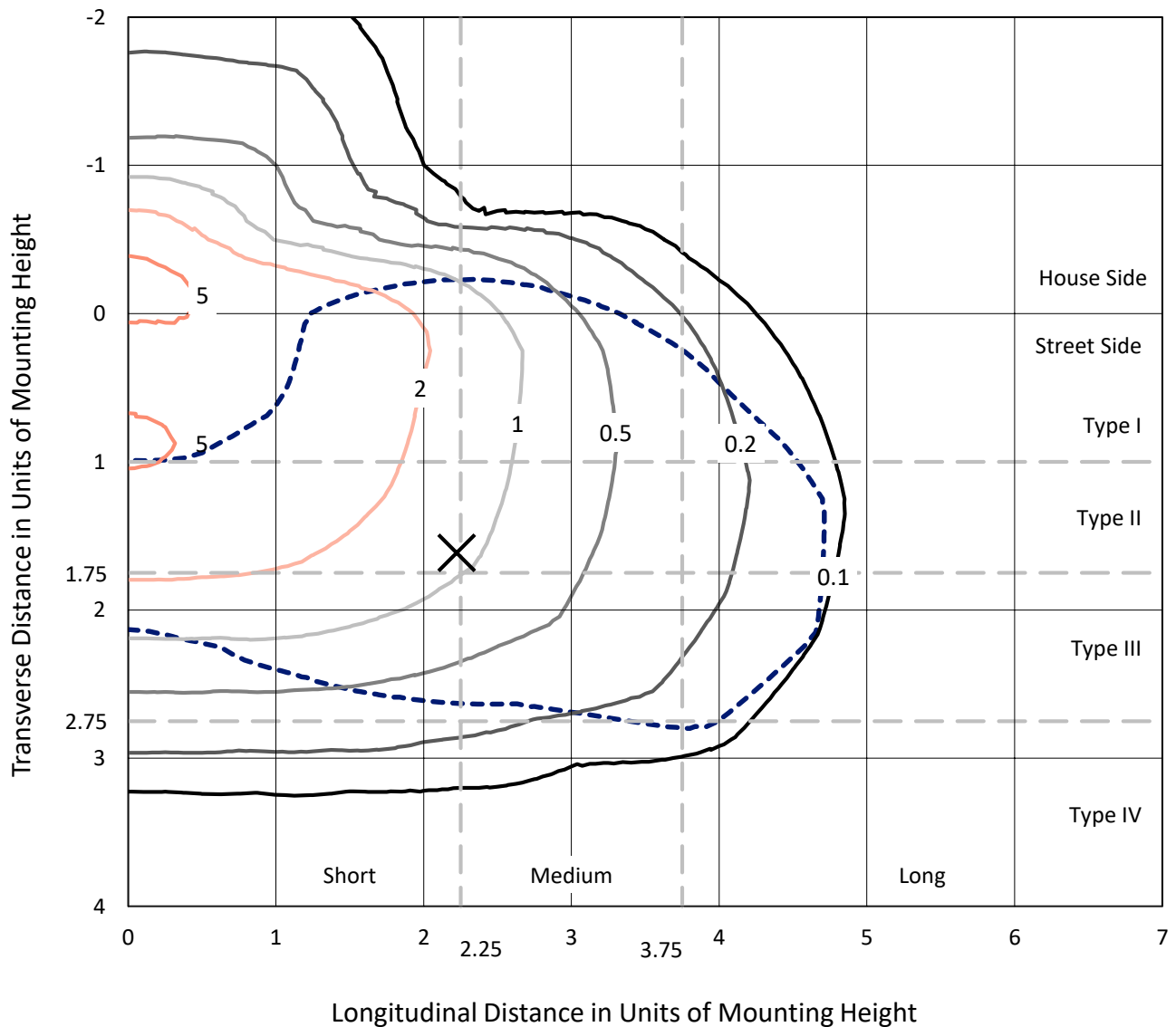


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

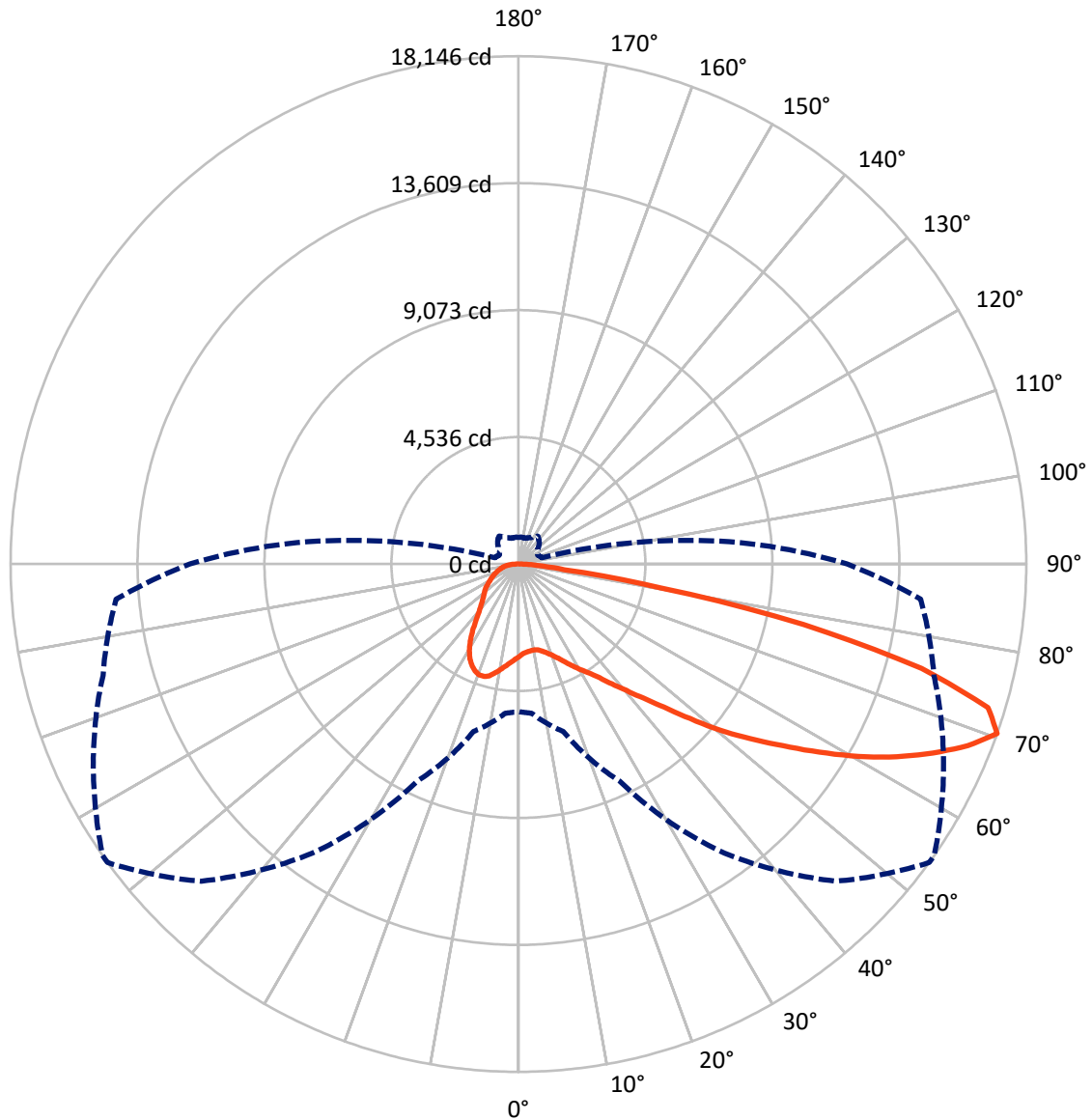


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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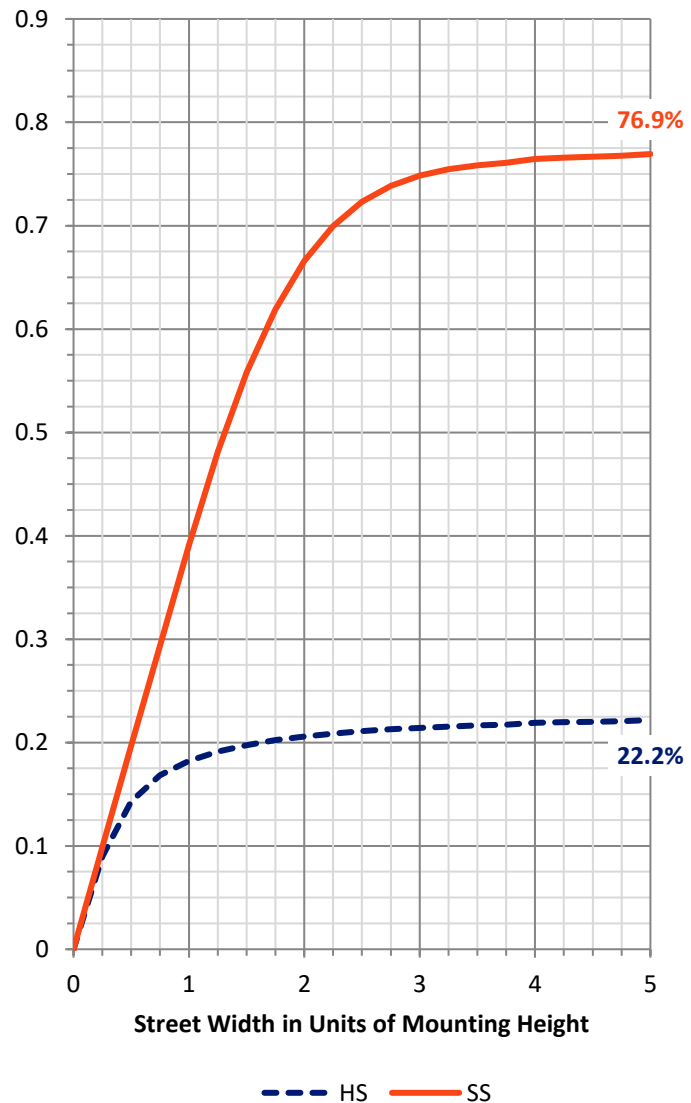
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6706.9	0.0	6706.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	22865.6	0.0	22865.6
	% Fixture	77.3	0.0	77.3
Total	Lumens	29572.5	0.0	29572.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.7	1.1
10°-20°	1037.5	3.5
20°-30°	1802.5	6.1
30°-40°	2634.1	8.9
40°-50°	4134.1	14.0
50°-60°	6357.3	21.5
60°-70°	7767.1	26.3
70°-80°	4815.6	16.3
80°-90°	699.6	2.4
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°	29572.5	100.0
0°-180°	29572.5	100.0

Coefficient of Utilization



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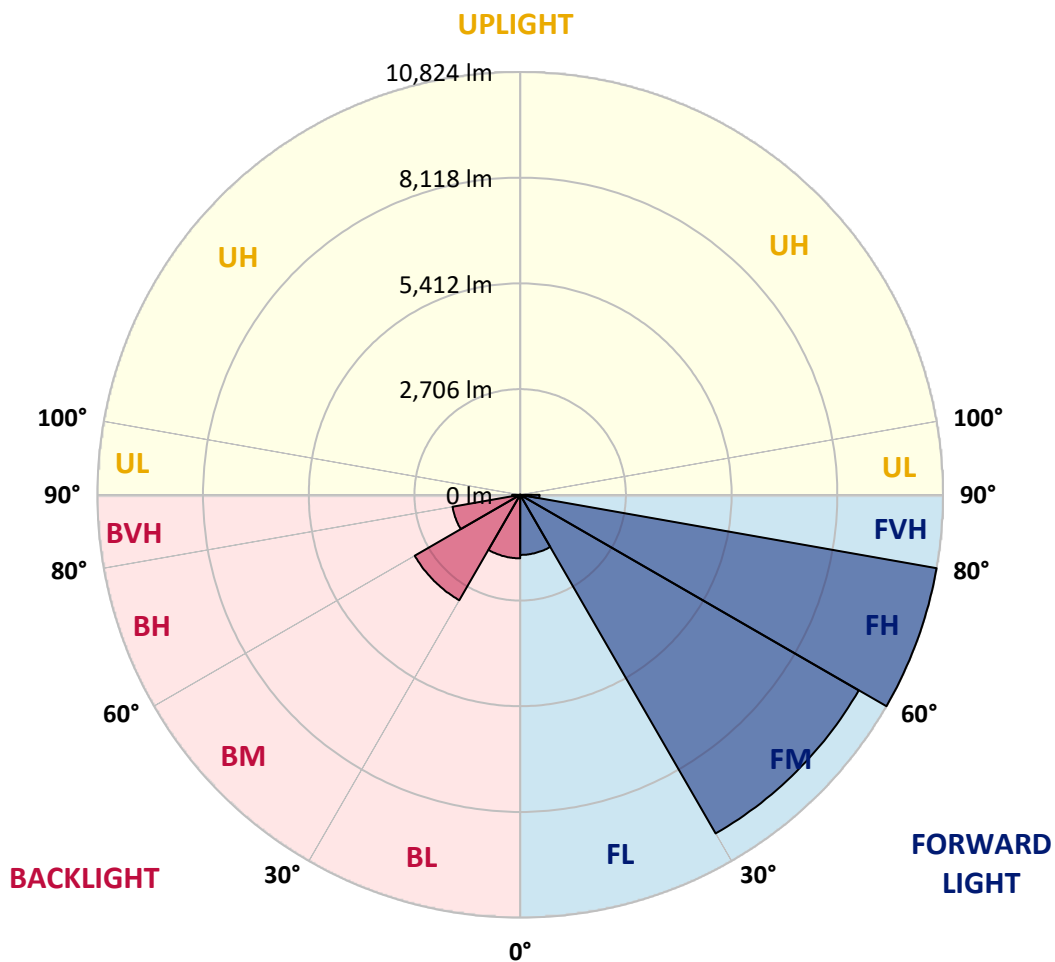
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1538.6	5.2			
FM	(30°-60°)	10008.9	33.8			
FH	(60°-80°)	10824.0	36.6			G4/12000
FVH	(80°-90°)	494.0	1.7			G3/500
BL	(0°-30°)	1626.0	5.5	B3/2500		
BM	(30°-60°)	3116.6	10.5	B3/5000		
BH	(60°-80°)	1758.7	5.9	B3/2500		G3/2500
BVH	(80°-90°)	205.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5
2.5°	3178.6	3167.8	3167.8	3184.0	3189.5	3205.7	3205.7	3211.1	3227.3	3254.4	3286.9
5°	3081.1	3075.7	3081.1	3102.8	3113.7	3146.1	3156.9	3162.4	3194.9	3238.2	3286.9
7.5°	2983.6	2978.2	2989.1	3021.6	3054.0	3102.8	3129.8	3135.2	3184.0	3243.6	3308.5
10°	2951.2	2945.8	2962.0	2989.1	3021.6	3075.7	3119.1	3124.5	3194.9	3265.3	3357.3
12.5°	2994.5	2989.1	3005.3	3032.4	3064.9	3102.8	3151.5	3156.9	3249.0	3341.1	3438.5
15°	3102.8	3102.8	3108.2	3124.5	3156.9	3189.5	3232.7	3238.2	3335.6	3444.0	3541.5
17.5°	3270.7	3259.8	3259.8	3254.4	3276.1	3292.4	3346.5	3351.9	3454.8	3552.2	3649.7
20°	3476.4	3471.0	3449.4	3422.3	3416.9	3427.7	3481.8	3487.2	3590.1	3671.4	3763.4
22.5°	3725.5	3730.9	3682.2	3622.7	3595.6	3611.8	3660.5	3665.9	3741.7	3812.1	3893.4
25°	4055.8	4039.6	3969.2	3882.5	3828.4	3828.4	3877.2	3877.2	3947.6	3990.8	4045.1
27.5°	4369.9	4337.4	4272.5	4147.9	4061.2	4077.5	4126.3	4126.3	4191.2	4207.5	4234.5
30°	4711.1	4678.6	4597.3	4440.3	4326.6	4315.7	4375.4	4369.9	4456.6	4451.2	4429.5
32.5°	5128.1	5111.8	4976.3	4776.1	4624.5	4586.5	4640.6	4646.0	4700.3	4684.0	4613.6
35°	5712.9	5707.5	5582.9	5230.9	5030.6	4960.2	4992.6	4992.6	5030.6	4987.2	4868.1
37.5°	6449.3	6460.1	6351.8	5831.9	5550.3	5431.3	5436.7	5431.3	5442.1	5393.3	5268.8
40°	7185.7	7212.8	7207.4	6579.2	6221.8	6016.1	5940.3	5929.4	5956.5	5934.9	5815.7
42.5°	8155.0	8219.9	8068.3	7499.8	7099.1	6752.5	6546.8	6519.7	6579.2	6606.3	6492.6
45°	9162.2	9140.5	8902.2	8490.7	8128.0	7683.9	7294.0	7250.7	7294.0	7375.3	7256.1
47.5°	9687.4	9671.2	9611.6	9405.8	9351.7	8842.7	8252.5	8214.6	8133.3	8247.0	8106.3
50°	10553.8	10570.0	10326.4	10304.7	10532.2	10250.6	9335.4	9248.8	9102.6	9194.7	9075.5
52.5°	11182.0	11111.6	10960.0	11149.4	11858.9	11707.3	10353.5	10315.5	10180.2	10158.5	10104.4
55°	11436.5	11436.5	11463.6	11902.1	12914.8	12714.5	11458.2	11496.0	11311.9	11160.3	11230.7
57.5°	11512.3	11544.8	11777.6	12503.2	14154.8	13499.6	12676.5	12730.6	12465.4	12162.1	12384.1
60°	11138.6	11236.1	11793.9	12844.4	14853.3	14333.5	13959.9	13976.1	13591.6	13147.6	13537.5
62.5°	10180.2	10299.4	11295.7	12985.1	14739.6	15189.1	15172.8	15210.8	14685.5	14133.2	14620.5
65°	9005.1	9124.3	10185.6	12589.9	14653.0	15801.0	16282.9	16385.8	15708.9	14967.1	15297.4
67.5°	7277.8	7434.8	8442.0	11257.8	14230.6	16304.6	17322.5	17430.9	16499.5	15400.2	15237.8
70°	5274.2	5350.0	6194.8	8555.7	12508.6	16028.4	18145.6	18140.3	16759.4	15367.8	14425.6
72.5°	2539.7	2599.2	3330.2	5312.1	8945.6	13602.5	17550.1	17652.9	16402.0	14896.6	12568.2
75°	1045.0	1104.7	1348.4	2241.8	4694.8	8988.9	14875.0	15118.7	14896.6	13369.7	9833.6
77.5°	649.8	671.5	790.6	1158.8	2144.3	4196.7	10413.0	10743.3	11804.6	10710.9	6492.6
80°	487.3	503.6	590.2	812.2	1353.8	1548.6	5171.3	5588.3	7153.2	6146.0	2940.4
82.5°	406.1	411.5	471.1	590.2	920.6	888.0	1657.0	1846.5	3335.6	2344.7	1012.6
85°	379.0	389.8	422.4	422.4	584.8	557.7	687.7	720.2	969.2	801.4	352.0
87.5°	195.0	184.1	373.7	330.3	303.2	270.8	292.4	314.0	362.8	384.4	157.0
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°	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5	3308.5
2.5°	3297.7	3314.0	3341.1	3368.2	3400.6	3438.5	3460.2	3487.2	3508.9	3498.1	3492.7
5°	3314.0	3341.1	3400.6	3454.8	3519.8	3595.6	3644.3	3698.5	3741.7	3752.6	3736.3
7.5°	3341.1	3389.8	3471.0	3568.5	3655.1	3752.6	3828.4	3904.2	3958.4	3969.2	3969.2
10°	3406.0	3460.2	3568.5	3698.5	3801.3	3904.2	3990.8	4050.4	4099.2	4120.9	4120.9
12.5°	3498.1	3563.0	3693.1	3850.1	3963.7	4061.2	4110.0	4137.0	4158.7	4180.4	4185.8
15°	3606.4	3676.8	3833.8	4001.7	4120.9	4169.5	4169.5	4164.1	4164.1	4175.0	4185.8
17.5°	3714.6	3790.5	3953.0	4131.6	4207.5	4180.4	4142.4	4126.3	4115.4	4110.0	4126.3
20°	3828.4	3904.2	4066.6	4234.5	4212.8	4099.2	4045.1	4007.1	3974.6	3958.4	3980.0
22.5°	3953.0	4023.4	4191.2	4304.9	4142.4	3969.2	3866.3	3806.7	3752.6	3720.1	3741.7
25°	4099.2	4169.5	4332.0	4326.6	4017.9	3774.3	3611.8	3514.3	3454.8	3422.3	3422.3
27.5°	4272.5	4332.0	4489.0	4272.5	3844.7	3514.3	3276.1	3184.0	3167.8	3140.7	3140.7
30°	4451.2	4499.9	4635.2	4147.9	3606.4	3173.2	2913.3	2870.0	2875.4	2848.3	2853.7
32.5°	4635.2	4684.0	4721.8	3963.7	3297.7	2788.8	2615.5	2583.0	2577.5	2555.8	2534.3
35°	4895.1	4965.5	4732.7	3714.6	2924.1	2469.2	2344.7	2312.2	2279.7	2203.9	2203.9
37.5°	5290.5	5366.3	4705.7	3406.0	2539.7	2220.1	2106.5	2063.1	2009.0	1933.2	1906.1
40°	5831.9	5831.9	4646.0	3059.4	2231.0	2019.8	1911.5	1857.4	1797.7	1721.9	1705.8
42.5°	6470.9	6319.3	4554.0	2707.5	2003.6	1884.4	1787.0	1727.4	1657.0	1570.3	1559.5
45°	7218.1	6806.6	4424.1	2393.4	1835.7	1803.2	1743.6	1640.7	1521.6	1429.6	1413.3
47.5°	7943.8	7245.3	4299.5	2171.4	1694.9	1770.7	1721.9	1548.6	1386.2	1256.3	1240.0
50°	8739.8	7635.1	4153.3	1987.3	1586.6	1749.0	1694.9	1413.3	1234.6	1142.5	1131.7
52.5°	9535.8	8030.5	3996.3	1792.4	1494.5	1705.8	1629.9	1315.8	1229.2	1104.7	1088.4
55°	10375.2	8490.7	3812.1	1575.8	1386.2	1619.1	1543.2	1310.4	1267.1	1104.7	1066.7
57.5°	11192.8	8999.7	3514.3	1364.6	1267.1	1489.1	1510.8	1278.0	1185.9	1093.8	1050.5
60°	12097.1	9541.3	3021.6	1185.9	1164.2	1380.8	1467.4	1207.6	1093.8	1061.3	1039.7
62.5°	12822.7	10028.6	2361.0	1061.3	1077.6	1294.1	1413.3	1164.2	1055.9	1028.9	1023.5
65°	13136.7	10039.4	1694.9	953.1	990.9	1212.9	1359.2	1126.3	1023.5	1012.6	1007.2
67.5°	12806.4	9487.1	1191.3	850.2	898.9	1137.1	1288.8	1088.4	990.9	996.4	985.5
70°	11739.7	8322.8	871.9	752.7	812.2	1055.9	1212.9	1039.7	953.1	963.8	947.7
72.5°	9822.8	6487.1	698.6	671.5	741.8	969.2	1137.1	985.5	893.4	898.9	866.4
75°	7256.1	4299.5	584.8	601.1	660.6	888.0	1039.7	915.1	828.5	806.8	785.2
77.5°	4315.7	2209.4	481.9	525.3	590.2	790.6	931.4	828.5	758.1	720.2	704.0
80°	1781.6	893.4	395.3	444.1	514.4	704.0	823.1	725.6	676.9	638.9	617.4
82.5°	709.3	438.6	314.0	362.8	433.2	611.9	720.2	638.9	590.2	563.1	503.6
85°	270.8	216.6	211.1	254.5	324.9	471.1	595.7	536.1	498.2	427.8	411.5
87.5°	108.3	97.5	97.5	124.6	184.1	297.8	427.8	373.7	389.8	308.6	314.0
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)