

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: P400223

Luminaire Tested: **ARCH-L-PA3-250-740-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-250-740-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33557 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

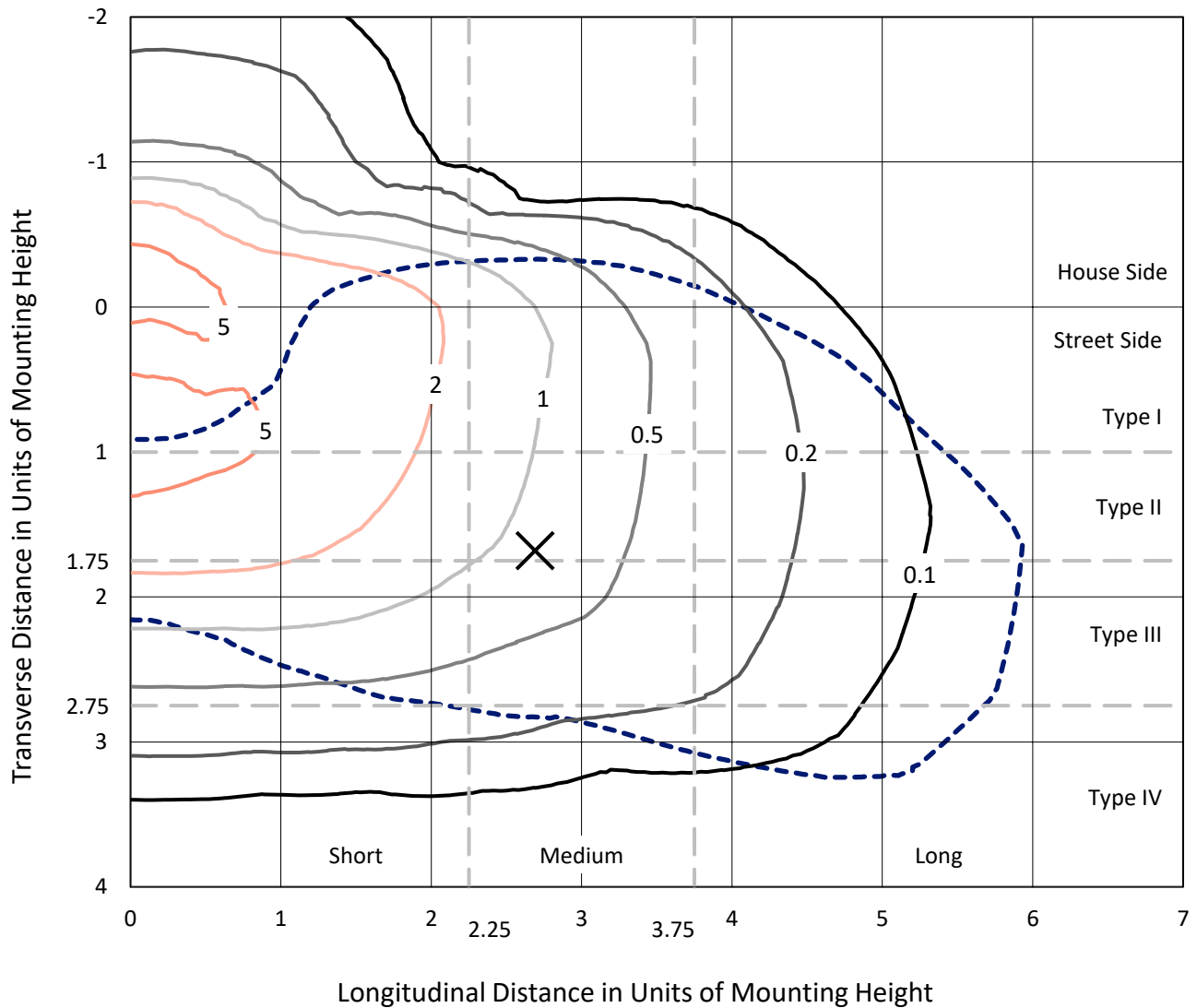
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

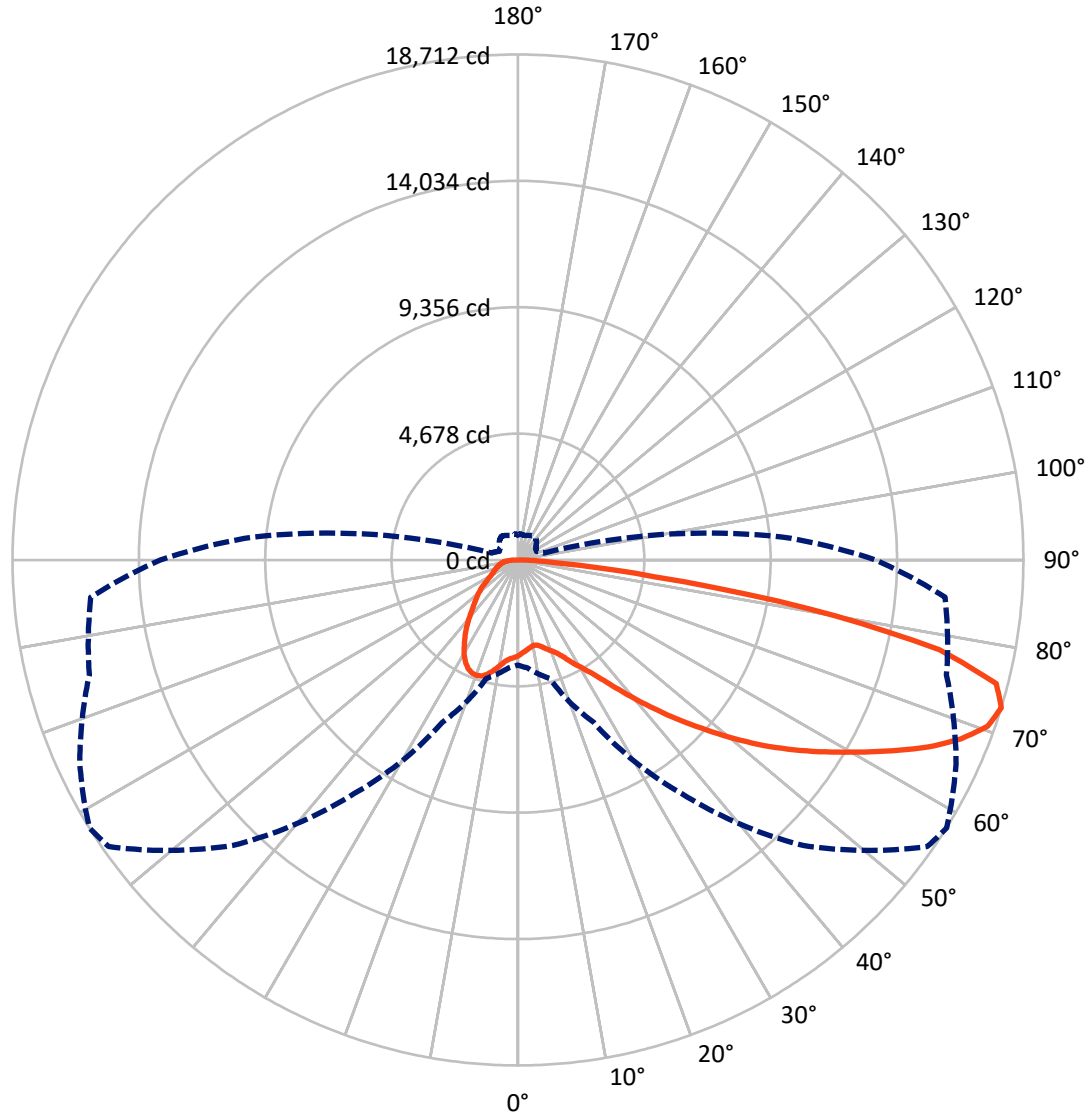
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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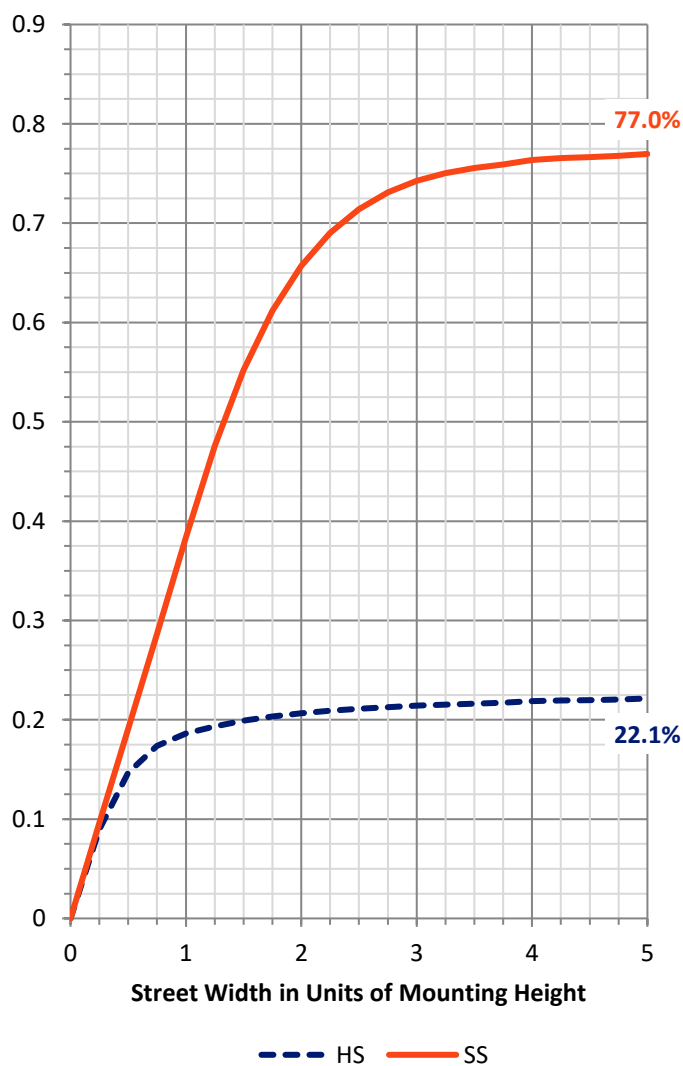
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7610.3	0.0	7610.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	25946.7	0.0	25946.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	33557.0	0.0	33557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.0	1.0
10°-20°	1082.8	3.2
20°-30°	1939.7	5.8
30°-40°	2917.9	8.7
40°-50°	4725.1	14.1
50°-60°	7112.8	21.2
60°-70°	8371.0	24.9
70°-80°	5935.8	17.7
80°-90°	1131.0	3.4
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°	33557.0	100.0
0°-180°	33557.0	100.0

Coefficient of Utilization



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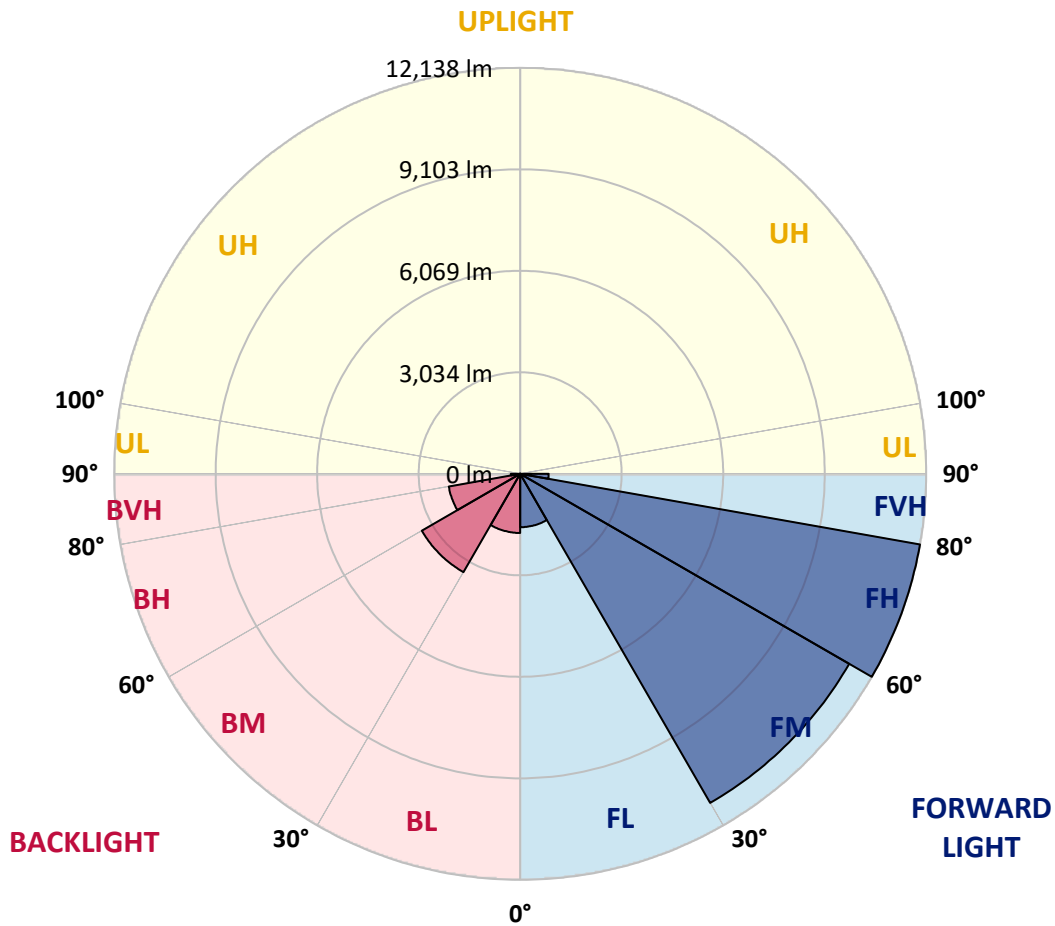
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1595.8	4.8			
FM (30°-60°)	11360.0	33.9			
FH (60°-80°)	12137.7	36.2			G5
FVH (80°-90°)	853.1	2.5			G5
BL (0°-30°)	1767.7	5.3	B3/2500		
BM (30°-60°)	3395.7	10.1	B3/5000		
BH (60°-80°)	2169.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	277.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3539.6	3539.6	3539.6	3539.6	3539.6	3539.6	3539.6	3539.6	3539.6	3539.6	3539.6
2.5°	3406.7	3388.9	3393.4	3393.4	3411.1	3419.9	3424.4	3437.7	3446.5	3468.7	3499.7
5°	3247.2	3233.9	3238.3	3242.7	3273.8	3304.8	3331.3	3349.1	3375.6	3411.1	3455.4
7.5°	3132.0	3123.1	3127.6	3136.4	3163.0	3198.4	3242.7	3269.3	3309.2	3375.6	3451.0
10°	3047.8	3047.8	3052.3	3070.0	3096.6	3140.9	3176.3	3207.3	3287.0	3406.7	3521.8
12.5°	2981.4	2981.4	2994.7	3030.1	3074.4	3118.7	3202.9	3238.3	3344.6	3508.5	3645.9
15°	2976.9	2981.4	2985.8	3016.8	3065.5	3163.0	3287.0	3340.2	3468.7	3663.6	3823.1
17.5°	3047.8	3052.3	3034.5	3043.4	3101.0	3238.3	3402.2	3464.2	3628.1	3840.8	4004.7
20°	3264.9	3264.9	3211.7	3163.0	3202.9	3353.5	3539.6	3601.6	3783.2	4018.0	4181.9
22.5°	3707.9	3730.0	3606.0	3499.7	3437.7	3521.8	3690.2	3756.6	3960.4	4212.9	4376.8
25°	4243.9	4266.1	4097.7	3947.1	3831.9	3818.6	3929.4	4000.3	4168.6	4430.0	4567.3
27.5°	4762.2	4722.4	4567.3	4425.5	4279.4	4159.7	4243.9	4305.9	4500.9	4700.2	4784.4
30°	5169.8	5138.8	4988.2	4886.3	4748.9	4593.9	4545.2	4611.6	4771.1	4957.1	5001.4
32.5°	5621.6	5599.5	5448.9	5316.0	5200.8	5054.6	4948.3	4979.3	5067.9	5200.8	5227.4
35°	6197.5	6246.3	6086.8	5816.6	5688.1	5546.3	5471.0	5479.9	5546.3	5630.5	5586.2
37.5°	6804.4	6862.0	6870.9	6445.6	6272.8	6144.4	6064.6	6095.6	6175.4	6233.0	6095.6
40°	7929.7	7872.1	7641.7	7327.2	7061.4	6937.3	6826.6	6822.2	6879.8	6981.6	6733.6
42.5°	9422.6	9369.4	8904.2	8496.7	8075.8	7934.1	7717.0	7624.0	7650.6	7779.0	7433.5
45°	10853.4	10831.3	10459.2	9985.2	9480.1	9205.5	8709.3	8483.4	8461.3	8563.1	8151.2
47.5°	12124.8	12027.4	11757.2	11389.5	11336.3	10618.7	9706.1	9400.4	9294.1	9351.7	8891.0
50°	13484.8	13152.6	12780.5	12554.5	12940.0	12271.0	10711.7	10392.7	10131.4	10171.2	9692.8
52.5°	14206.9	13648.8	13405.1	13471.6	13989.9	13732.9	11805.9	11416.0	10995.2	11052.8	10490.2
55°	13586.7	13582.3	13688.6	14100.6	14822.7	14525.9	12846.9	12408.4	11947.6	11960.9	11407.2
57.5°	12736.2	12908.9	13458.3	14366.4	15854.9	15358.7	13870.3	13405.1	12984.3	12917.8	12448.2
60°	11960.9	12151.4	12948.8	14322.1	16213.7	16120.7	14844.8	14437.3	14096.2	13901.3	13542.4
62.5°	10782.6	10924.3	12054.0	14038.6	15912.5	16670.0	15832.7	15553.6	15296.7	14893.6	14720.8
65°	9396.0	9444.7	10636.4	13103.9	15535.9	16882.6	16816.2	16692.1	16444.1	15850.5	15885.9
67.5°	7894.2	7991.7	9037.1	11611.0	14711.9	16785.2	17578.1	17680.0	17387.7	16497.2	16630.1
70°	6295.0	6414.6	7207.6	9546.6	13312.1	16364.3	18282.5	18446.4	17883.8	16709.9	16767.5
72.5°	3893.9	4009.1	4540.7	6631.7	10552.2	14951.2	18499.6	18712.2	17897.1	16426.3	15872.6
75°	1346.7	1360.0	1776.4	3180.7	6264.0	11287.6	17790.8	18291.4	17334.5	15394.2	13812.7
77.5°	615.8	637.9	788.5	1311.3	2777.6	6091.2	14689.8	15943.5	15624.5	13781.7	10631.9
80°	425.3	434.1	544.9	784.1	1603.7	2144.1	9271.9	10906.6	11464.8	10671.8	6813.3
82.5°	319.0	327.8	420.8	531.6	1156.2	1041.0	3530.7	5067.9	6299.4	6184.2	2848.5
85°	305.7	301.2	327.8	354.4	770.8	620.2	1142.9	1568.2	2458.6	2104.2	717.7
87.5°	132.9	146.2	336.7	199.3	403.1	287.9	496.2	580.3	748.7	651.2	256.9
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°	3539.6	3539.6	3539.6	3539.6	3539.6	3539.6	3539.6	3539.6	3539.6	3539.6	3539.6
2.5°	3513.0	3521.8	3548.4	3588.3	3610.4	3654.7	3685.7	3703.5	3716.7	3721.2	3721.2
5°	3482.0	3499.7	3557.3	3623.7	3685.7	3778.8	3862.9	3911.7	3947.1	3960.4	3964.8
7.5°	3490.8	3535.1	3619.3	3716.7	3796.5	3916.1	4018.0	4115.4	4195.2	4226.2	4226.2
10°	3575.0	3637.0	3752.2	3880.7	3982.5	4106.6	4212.9	4297.1	4390.1	4443.3	4452.1
12.5°	3703.5	3778.8	3929.4	4071.1	4186.3	4283.8	4381.2	4443.3	4487.6	4527.4	4536.3
15°	3885.1	3978.1	4128.7	4274.9	4376.8	4438.8	4465.4	4465.4	4461.0	4465.4	4474.3
17.5°	4066.7	4155.3	4305.9	4452.1	4500.9	4465.4	4434.4	4425.5	4421.1	4412.3	4416.7
20°	4243.9	4328.1	4456.6	4567.3	4527.4	4403.4	4363.5	4359.1	4345.8	4336.9	4328.1
22.5°	4421.1	4483.1	4589.5	4629.3	4469.8	4292.6	4243.9	4217.3	4199.6	4177.5	4155.3
25°	4624.9	4642.6	4722.4	4660.3	4328.1	4088.9	4018.0	3978.1	3960.4	3938.2	3920.5
27.5°	4815.4	4815.4	4828.7	4611.6	4119.9	3818.6	3712.3	3641.4	3637.0	3632.6	3628.1
30°	4988.2	4966.0	4921.7	4465.4	3849.6	3486.4	3326.9	3256.0	3282.6	3304.8	3309.2
32.5°	5191.9	5147.6	5023.6	4266.1	3526.3	3114.3	2919.4	2888.3	2919.4	2945.9	2928.2
35°	5510.9	5431.1	5129.9	4035.7	3216.2	2773.2	2587.1	2542.8	2533.9	2529.5	2494.1
37.5°	5967.2	5829.8	5214.1	3787.6	2910.5	2471.9	2334.6	2241.6	2157.4	2068.8	2055.5
40°	6525.4	6290.6	5271.7	3504.1	2587.1	2219.4	2073.2	1953.6	1811.9	1656.8	1639.1
42.5°	7136.7	6786.7	5298.3	3189.6	2303.6	2011.2	1829.6	1679.0	1519.5	1399.9	1377.7
45°	7796.8	7322.7	5276.1	2888.3	2073.2	1834.0	1630.2	1466.3	1337.9	1253.7	1236.0
47.5°	8439.1	7938.5	5214.1	2649.1	1896.0	1683.4	1475.2	1324.6	1227.1	1134.1	1111.9
50°	9263.1	8527.7	5138.8	2463.1	1701.1	1532.8	1377.7	1218.2	1107.5	1063.2	1054.3
52.5°	10175.7	9116.9	5050.2	2228.3	1510.6	1413.2	1315.7	1173.9	1138.5	1054.3	1041.0
55°	11163.5	9816.8	5032.5	1931.5	1342.3	1329.0	1253.7	1213.8	1222.7	1054.3	1032.2
57.5°	12204.6	10565.5	5072.3	1634.7	1205.0	1253.7	1280.3	1249.3	1236.0	1076.5	1032.2
60°	13289.9	11287.6	4952.7	1360.0	1098.6	1191.7	1311.3	1231.5	1134.1	1067.6	1036.6
62.5°	14344.3	11894.5	4434.4	1165.1	1018.9	1173.9	1293.6	1165.1	1054.3	1054.3	1041.0
65°	15110.6	12164.7	3468.7	1023.3	965.7	1151.8	1262.5	1120.8	1032.2	1063.2	1045.5
67.5°	15199.2	11885.6	2330.2	912.6	921.4	1111.9	1191.7	1080.9	1010.0	1089.8	1063.2
70°	14654.4	11159.1	1426.5	828.4	863.8	1041.0	1129.6	1041.0	979.0	1067.6	1027.8
72.5°	13241.2	9803.5	1005.6	757.5	801.8	974.6	1072.1	1005.6	934.7	965.7	925.9
75°	10862.3	7597.4	797.4	691.1	739.8	912.6	1023.3	952.4	881.6	868.3	841.7
77.5°	7694.9	4868.5	642.3	637.9	673.4	837.3	956.9	890.4	819.5	793.0	775.2
80°	4425.5	2387.8	553.7	575.9	611.3	762.0	877.1	819.5	753.1	713.2	686.6
82.5°	1692.3	832.8	487.3	500.6	540.5	682.2	797.4	748.7	682.2	717.7	602.5
85°	549.3	456.3	398.7	412.0	451.9	567.0	704.4	664.5	589.2	522.7	482.9
87.5°	243.6	248.1	212.6	234.8	283.5	376.5	513.9	487.3	429.7	358.8	345.5
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)