

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: P400241

Luminaire Tested: **ARCH-L-PA3-250-760-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400241
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-PA3-250-760-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33556 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

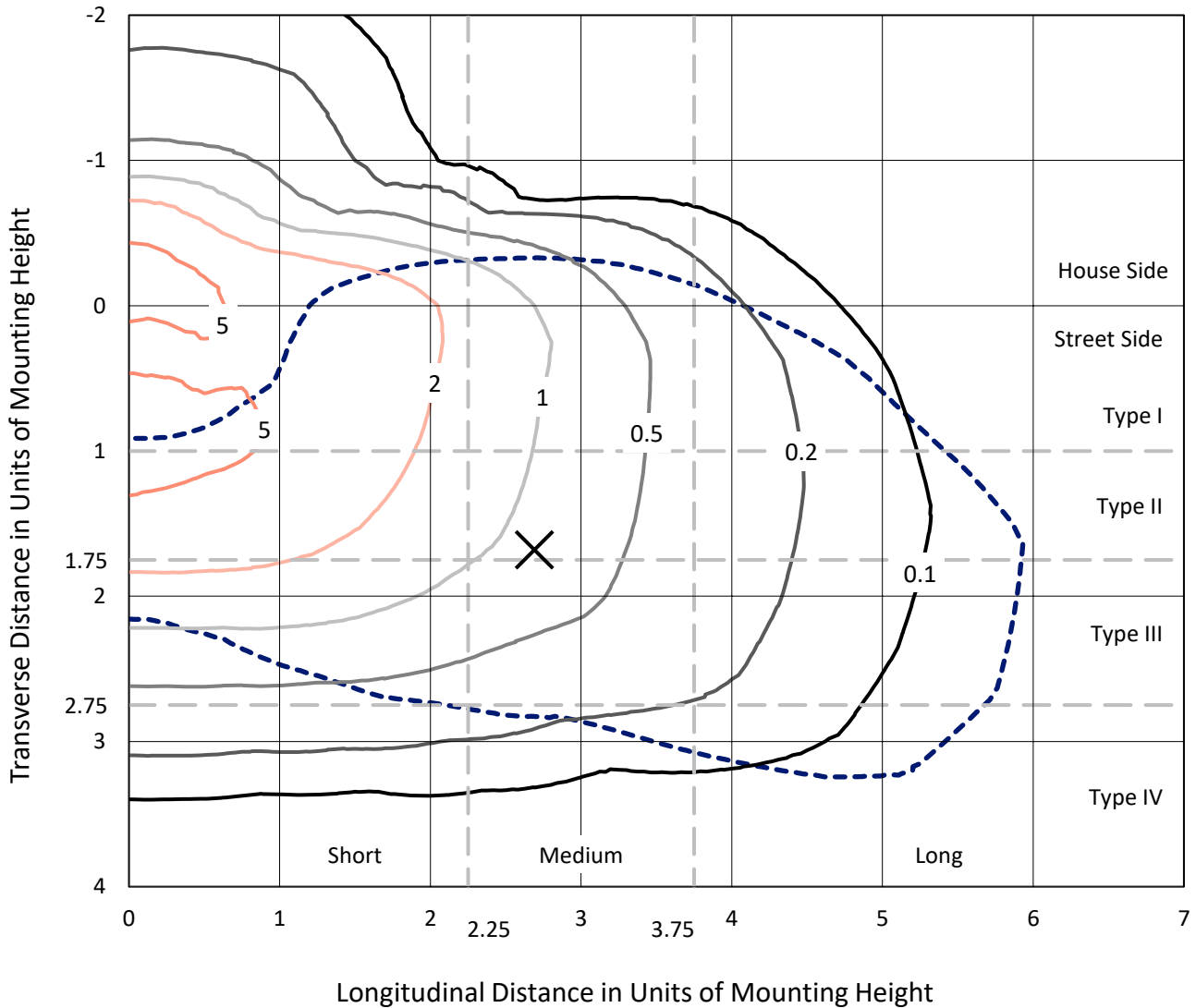
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

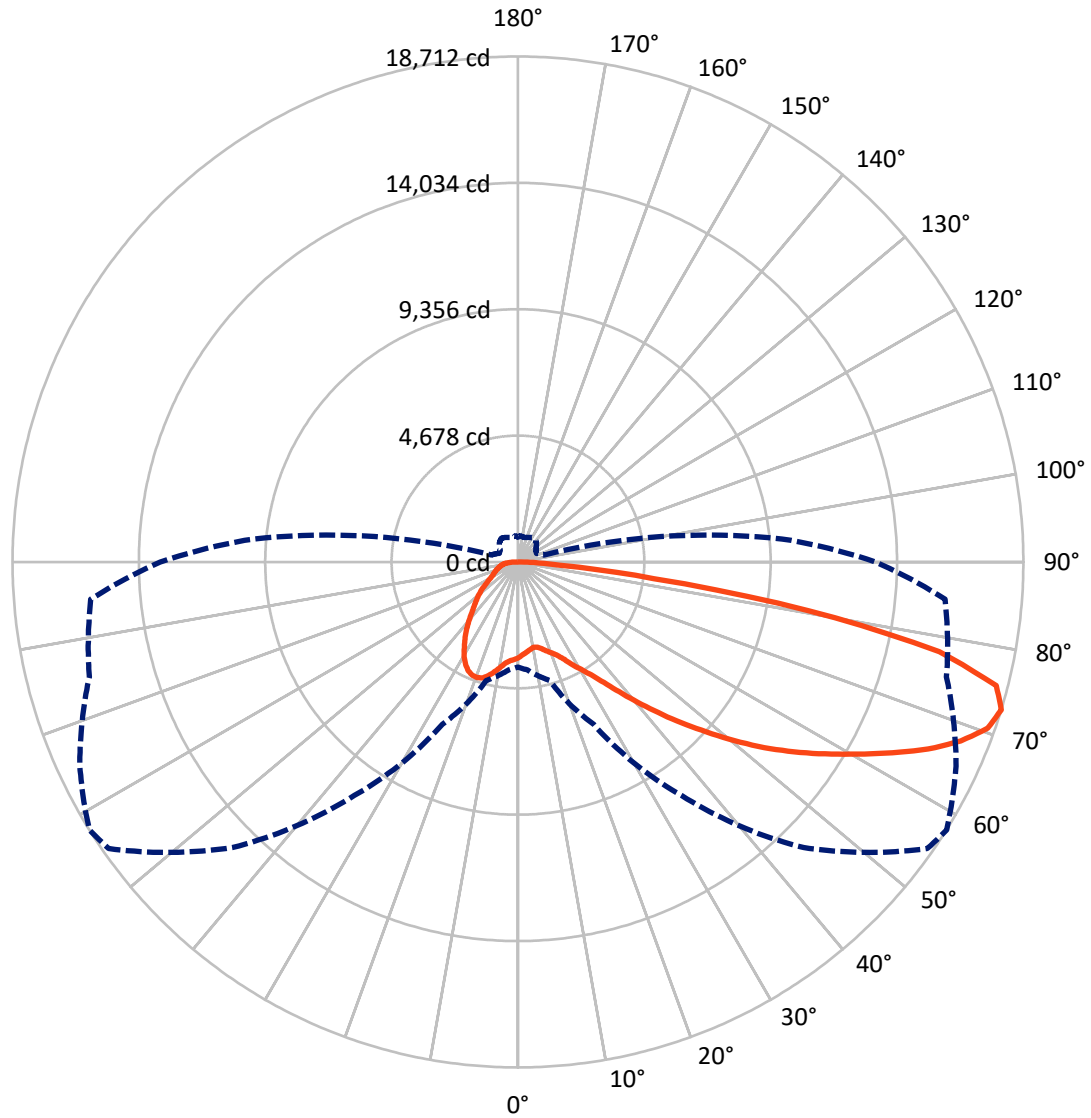
✕ Max cd
 - - - 1/2 Max cd



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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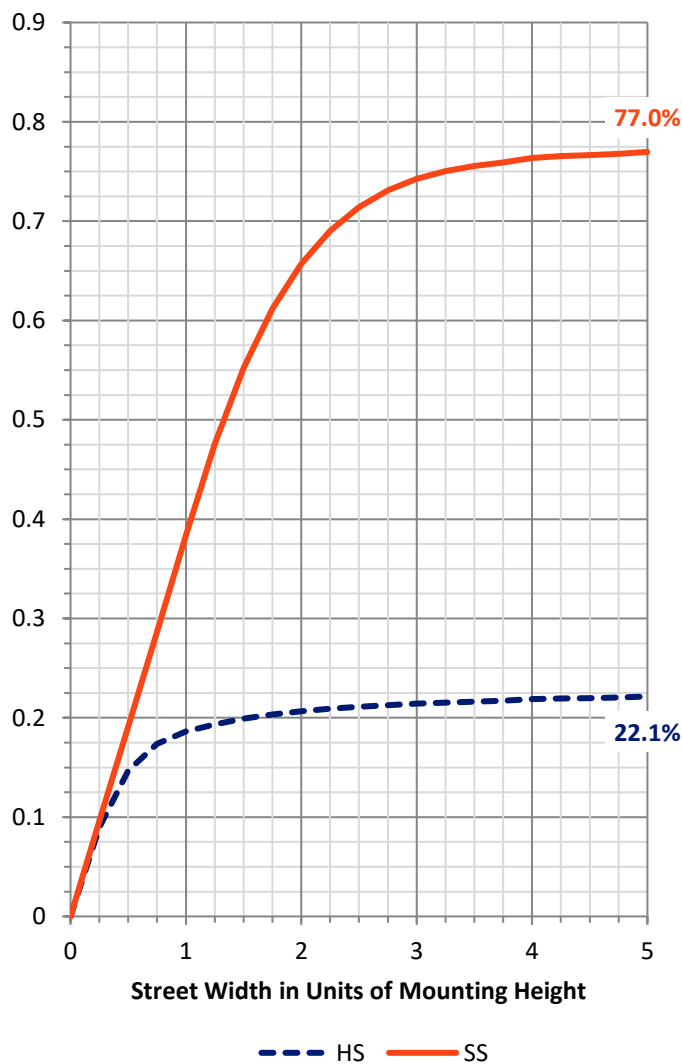
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7610.1	0.0	7610.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	25945.9	0.0	25945.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	33556.0	0.0	33556.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

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°	2917.8	8.7
40°-50°	4724.9	14.1
50°-60°	7112.5	21.2
60°-70°	8370.7	24.9
70°-80°	5935.6	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°	33556.0	100.0
0°-180°	33556.0	100.0



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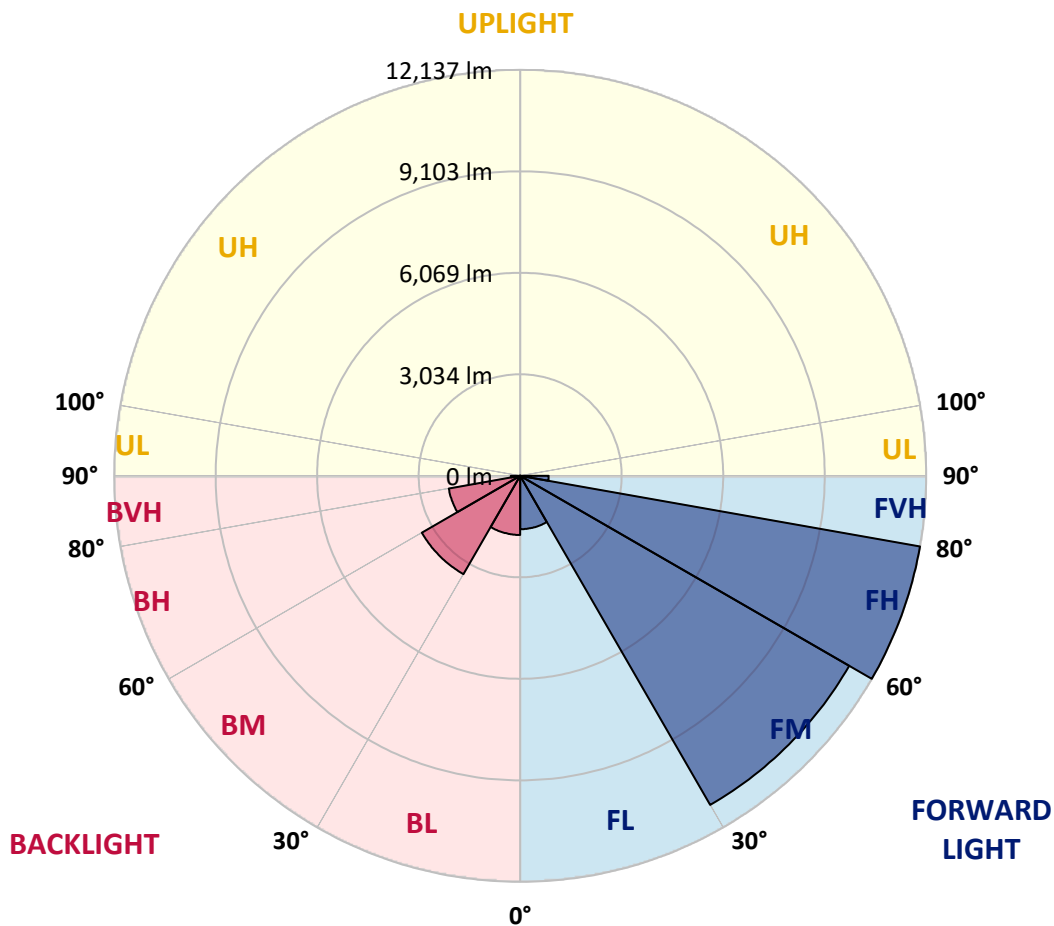
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1595.7	4.8			
FM (30°-60°)	11359.7	33.9			
FH (60°-80°)	12137.3	36.2			G5
FVH (80°-90°)	853.1	2.5			G5
BL (0°-30°)	1767.7	5.3	B3/2500		
BM (30°-60°)	3395.6	10.1	B3/5000		
BH (60°-80°)	2168.9	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°	3539.4	3539.4	3539.4	3539.4	3539.4	3539.4	3539.4	3539.4	3539.4	3539.4	3539.4
2.5°	3406.5	3388.8	3393.3	3393.3	3411.0	3419.8	3424.3	3437.6	3446.4	3468.6	3499.6
5°	3247.1	3233.8	3238.2	3242.6	3273.7	3304.7	3331.2	3349.0	3375.5	3411.0	3455.3
7.5°	3131.9	3123.0	3127.5	3136.3	3162.9	3198.3	3242.6	3269.2	3309.1	3375.5	3450.8
10°	3047.7	3047.7	3052.2	3069.9	3096.5	3140.8	3176.2	3207.2	3286.9	3406.5	3521.7
12.5°	2981.3	2981.3	2994.6	3030.0	3074.3	3118.6	3202.8	3238.2	3344.5	3508.4	3645.8
15°	2976.9	2981.3	2985.7	3016.7	3065.5	3162.9	3286.9	3340.1	3468.6	3663.5	3823.0
17.5°	3047.7	3052.2	3034.4	3043.3	3100.9	3238.2	3402.1	3464.1	3628.0	3840.7	4004.6
20°	3264.8	3264.8	3211.6	3162.9	3202.8	3353.4	3539.4	3601.5	3783.1	4017.9	4181.8
22.5°	3707.8	3729.9	3605.9	3499.6	3437.6	3521.7	3690.1	3756.5	3960.3	4212.8	4376.7
25°	4243.8	4265.9	4097.6	3947.0	3831.8	3818.5	3929.3	4000.1	4168.5	4429.8	4567.2
27.5°	4762.1	4722.2	4567.2	4425.4	4279.2	4159.6	4243.8	4305.8	4500.7	4700.1	4784.2
30°	5169.6	5138.6	4988.0	4886.1	4748.8	4593.7	4545.0	4611.5	4770.9	4957.0	5001.3
32.5°	5621.5	5599.3	5448.7	5315.8	5200.6	5054.5	4948.1	4979.1	5067.7	5200.6	5227.2
35°	6197.4	6246.1	6086.6	5816.4	5687.9	5546.2	5470.9	5479.7	5546.2	5630.3	5586.0
37.5°	6804.2	6861.8	6870.7	6445.4	6272.7	6144.2	6064.5	6095.5	6175.2	6232.8	6095.5
40°	7929.4	7871.8	7641.5	7327.0	7061.2	6937.1	6826.4	6822.0	6879.5	6981.4	6733.4
42.5°	9422.3	9369.1	8904.0	8496.4	8075.6	7933.8	7716.8	7623.8	7650.3	7778.8	7433.3
45°	10853.1	10831.0	10458.9	9984.9	9479.9	9205.2	8709.1	8483.1	8461.0	8562.9	8150.9
47.5°	12124.5	12027.0	11756.8	11389.1	11336.0	10618.3	9705.8	9400.1	9293.8	9351.4	8890.7
50°	13484.4	13152.2	12780.1	12554.2	12939.6	12270.7	10711.4	10392.4	10131.1	10170.9	9692.5
52.5°	14206.5	13648.3	13404.7	13471.2	13989.4	13732.5	11805.5	11415.7	10994.9	11052.5	10489.9
55°	13586.3	13581.9	13688.2	14100.2	14822.3	14525.5	12846.5	12408.0	11947.3	11960.6	11406.8
57.5°	12735.8	12908.6	13457.9	14366.0	15854.4	15358.3	13869.8	13404.7	12983.9	12917.4	12447.9
60°	11960.6	12151.1	12948.4	14321.7	16213.2	16120.2	14844.4	14436.9	14095.8	13900.8	13542.0
62.5°	10782.2	10924.0	12053.6	14038.2	15912.0	16669.5	15832.3	15553.2	15296.2	14893.1	14720.4
65°	9395.7	9444.4	10636.1	13103.5	15535.5	16882.1	16815.7	16691.6	16443.6	15850.0	15885.4
67.5°	7894.0	7991.4	9036.9	11610.6	14711.5	16784.7	17577.6	17679.5	17387.1	16496.7	16629.6
70°	6294.8	6414.4	7207.4	9546.3	13311.7	16363.8	18282.0	18445.9	17883.3	16709.4	16767.0
72.5°	3893.8	4009.0	4540.6	6631.5	10551.9	14950.7	18499.0	18711.7	17896.6	16425.9	15872.1
75°	1346.7	1360.0	1776.4	3180.6	6263.8	11287.2	17790.2	18290.8	17334.0	15393.7	13812.3
77.5°	615.7	637.9	788.5	1311.2	2777.5	6091.0	14689.4	15943.0	15624.1	13781.2	10631.6
80°	425.3	434.1	544.9	784.1	1603.6	2144.0	9271.7	10906.3	11464.4	10671.5	6813.1
82.5°	318.9	327.8	420.8	531.6	1156.2	1041.0	3530.6	5067.7	6299.2	6184.1	2848.4
85°	305.7	301.2	327.8	354.4	770.8	620.2	1142.9	1568.2	2458.6	2104.2	717.6
87.5°	132.9	146.2	336.7	199.3	403.1	287.9	496.1	580.3	748.6	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°	3539.4	3539.4	3539.4	3539.4	3539.4	3539.4	3539.4	3539.4	3539.4	3539.4	3539.4
2.5°	3512.9	3521.7	3548.3	3588.2	3610.3	3654.6	3685.6	3703.3	3716.6	3721.1	3721.1
5°	3481.9	3499.6	3557.2	3623.6	3685.6	3778.7	3862.8	3911.6	3947.0	3960.3	3964.7
7.5°	3490.7	3535.0	3619.2	3716.6	3796.4	3916.0	4017.9	4115.3	4195.1	4226.1	4226.1
10°	3574.9	3636.9	3752.1	3880.5	3982.4	4106.5	4212.8	4296.9	4390.0	4443.1	4452.0
12.5°	3703.3	3778.7	3929.3	4071.0	4186.2	4283.7	4381.1	4443.1	4487.4	4527.3	4536.2
15°	3885.0	3978.0	4128.6	4274.8	4376.7	4438.7	4465.3	4465.3	4460.9	4465.3	4474.1
17.5°	4066.6	4155.2	4305.8	4452.0	4500.7	4465.3	4434.3	4425.4	4421.0	4412.1	4416.6
20°	4243.8	4328.0	4456.4	4567.2	4527.3	4403.3	4363.4	4359.0	4345.7	4336.8	4328.0
22.5°	4421.0	4483.0	4589.3	4629.2	4469.7	4292.5	4243.8	4217.2	4199.5	4177.3	4155.2
25°	4624.8	4642.5	4722.2	4660.2	4328.0	4088.7	4017.9	3978.0	3960.3	3938.1	3920.4
27.5°	4815.2	4815.2	4828.5	4611.5	4119.8	3818.5	3712.2	3641.3	3636.9	3632.5	3628.0
30°	4988.0	4965.9	4921.6	4465.3	3849.5	3486.3	3326.8	3255.9	3282.5	3304.7	3309.1
32.5°	5191.8	5147.5	5023.4	4265.9	3526.2	3114.2	2919.3	2888.3	2919.3	2945.8	2928.1
35°	5510.7	5431.0	5129.8	4035.6	3216.1	2773.1	2587.0	2542.7	2533.9	2529.4	2494.0
37.5°	5967.0	5829.7	5213.9	3787.5	2910.4	2471.9	2334.5	2241.5	2157.3	2068.7	2055.4
40°	6525.2	6290.4	5271.5	3504.0	2587.0	2219.4	2073.2	1953.6	1811.8	1656.8	1639.0
42.5°	7136.5	6786.5	5298.1	3189.5	2303.5	2011.1	1829.5	1678.9	1519.4	1399.8	1377.7
45°	7796.5	7322.5	5275.9	2888.3	2073.2	1834.0	1630.2	1466.3	1337.8	1253.6	1235.9
47.5°	8438.9	7938.3	5213.9	2649.0	1896.0	1683.3	1475.1	1324.5	1227.1	1134.0	1111.9
50°	9262.8	8527.4	5138.6	2463.0	1701.1	1532.7	1377.7	1218.2	1107.5	1063.2	1054.3
52.5°	10175.3	9116.6	5050.0	2228.2	1510.6	1413.1	1315.7	1173.9	1138.5	1054.3	1041.0
55°	11163.2	9816.5	5032.3	1931.4	1342.2	1329.0	1253.6	1213.8	1222.6	1054.3	1032.2
57.5°	12204.2	10565.2	5072.2	1634.6	1204.9	1253.6	1280.2	1249.2	1235.9	1076.5	1032.2
60°	13289.5	11287.2	4952.6	1360.0	1098.6	1191.6	1311.2	1231.5	1134.0	1067.6	1036.6
62.5°	14343.8	11894.1	4434.3	1165.0	1018.9	1173.9	1293.5	1165.0	1054.3	1054.3	1041.0
65°	15110.2	12164.3	3468.6	1023.3	965.7	1151.8	1262.5	1120.8	1032.2	1063.2	1045.4
67.5°	15198.8	11885.3	2330.1	912.5	921.4	1111.9	1191.6	1080.9	1010.0	1089.7	1063.2
70°	14653.9	11158.8	1426.4	828.4	863.8	1041.0	1129.6	1041.0	979.0	1067.6	1027.7
72.5°	13240.8	9803.2	1005.6	757.5	801.8	974.6	1072.0	1005.6	934.7	965.7	925.8
75°	10862.0	7597.2	797.4	691.1	739.8	912.5	1023.3	952.4	881.5	868.2	841.7
77.5°	7694.6	4868.4	642.3	637.9	673.3	837.2	956.8	890.4	819.5	792.9	775.2
80°	4425.4	2387.7	553.7	575.9	611.3	761.9	877.1	819.5	753.1	713.2	686.6
82.5°	1692.2	832.8	487.3	500.6	540.4	682.2	797.4	748.6	682.2	717.6	602.5
85°	549.3	456.3	398.7	412.0	451.8	567.0	704.3	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)