

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: P400257

Luminaire Tested: **ARCH-L-PA3-250-830-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-250-830-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26584 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

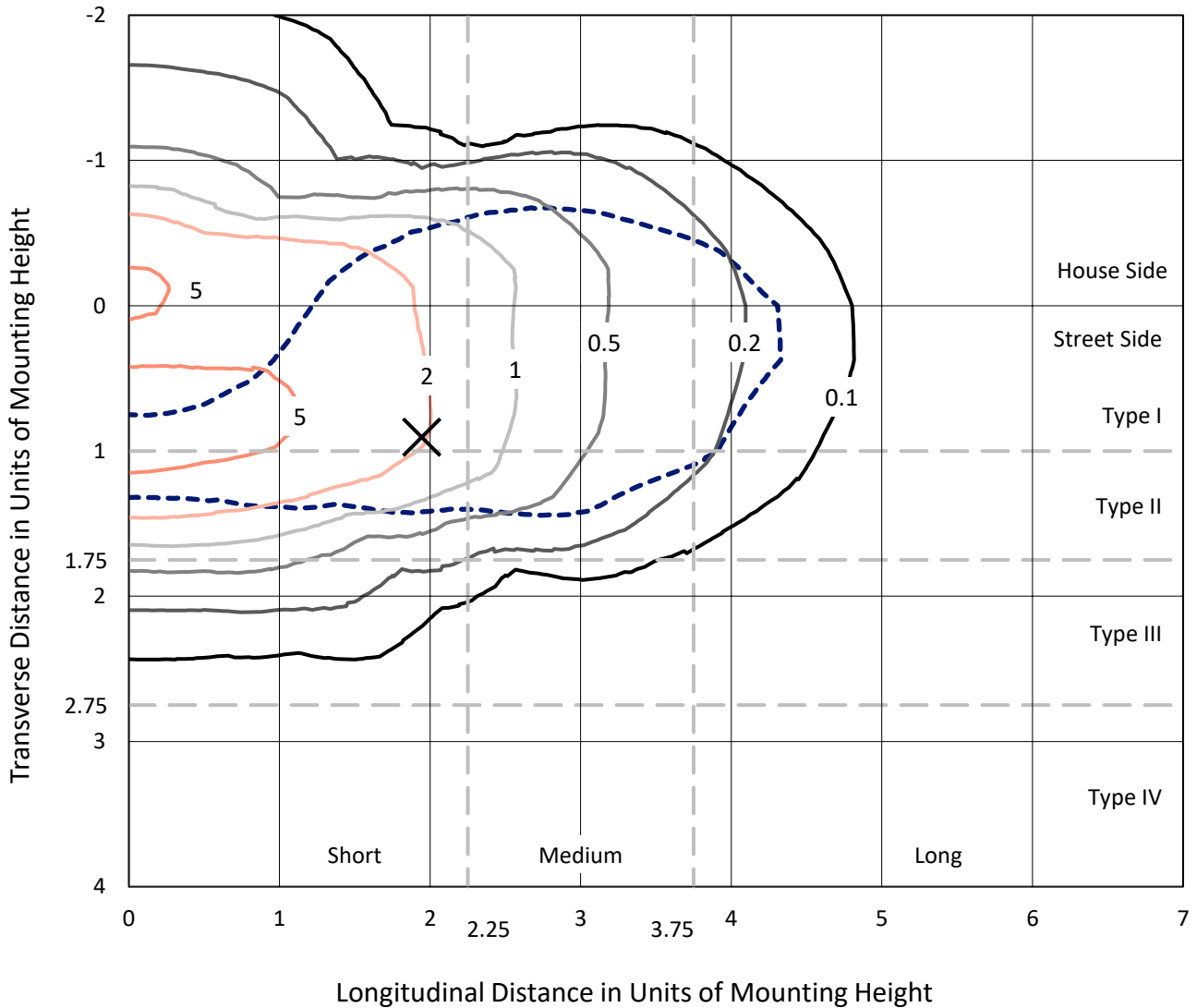
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

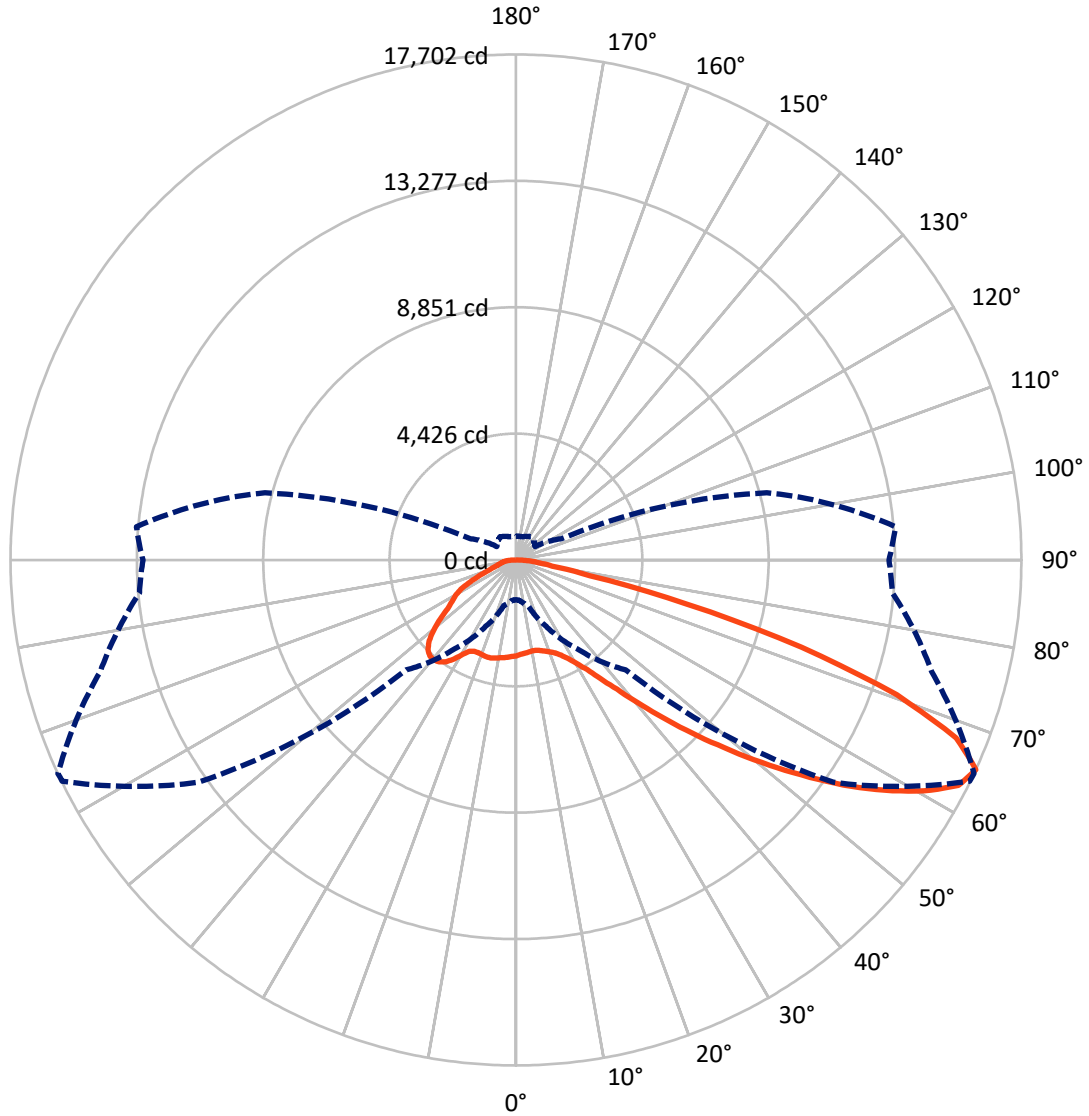
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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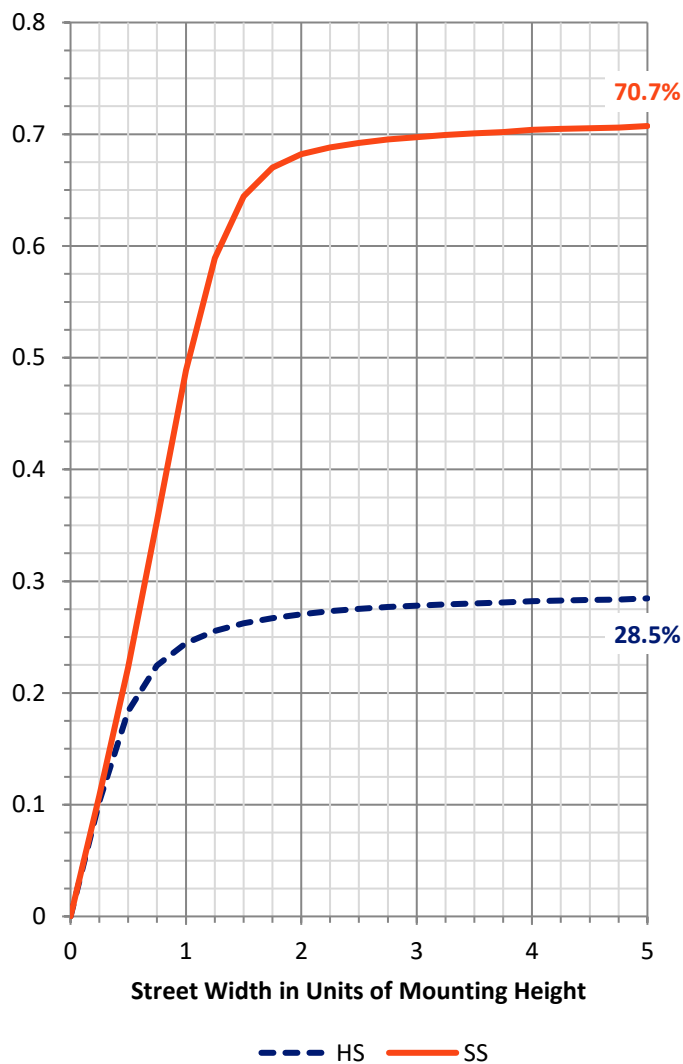
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7685.8	0.0	7685.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	18898.2	0.0	18898.2
	% Fixture	71.1	0.0	71.1
Total	Lumens	26584.0	0.0	26584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	1.2
10°-20°	955.5	3.6
20°-30°	1697.2	6.4
30°-40°	2871.3	10.8
40°-50°	4998.3	18.8
50°-60°	6459.4	24.3
60°-70°	5652.3	21.3
70°-80°	3074.5	11.6
80°-90°	555.5	2.1
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°	26584.0	100.0
0°-180°	26584.0	100.0

Coefficient of Utilization



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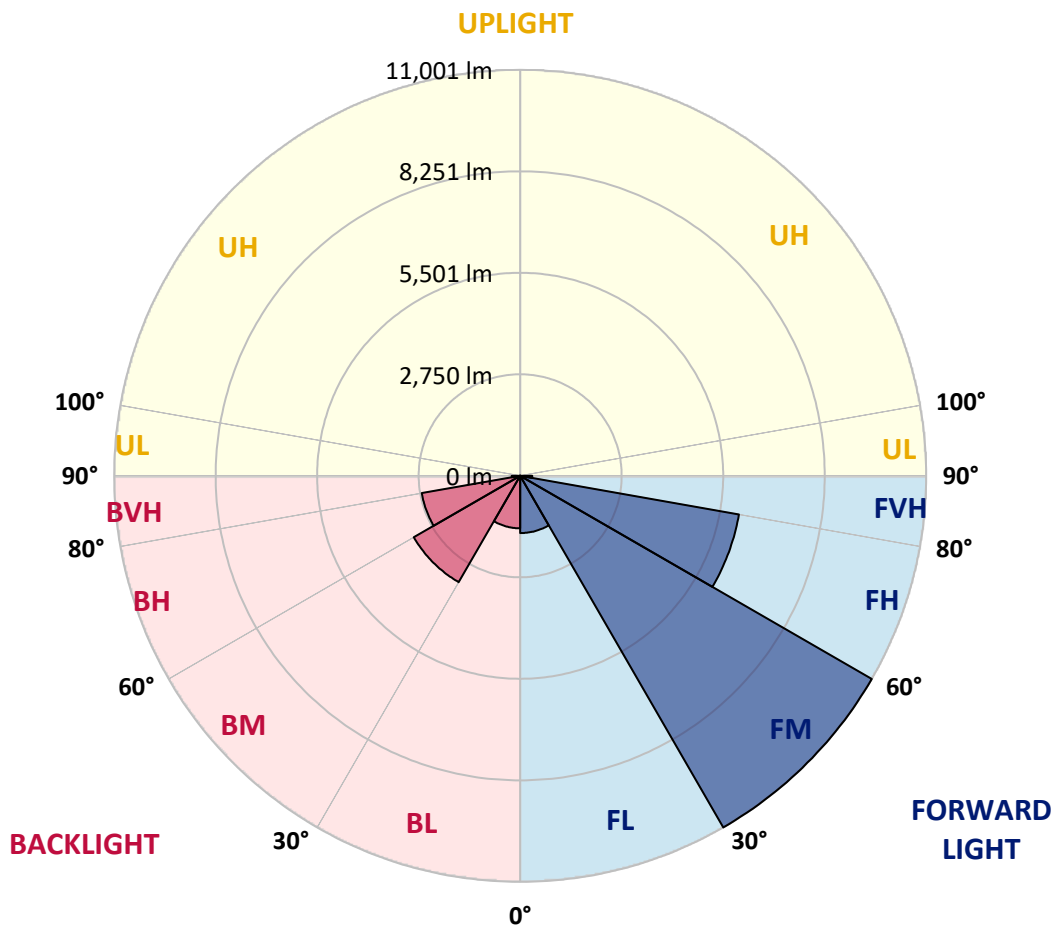
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1551.1	5.8			
FM (30°-60°)	11001.2	41.4			
FH (60°-80°)	6019.0	22.6			G3/7500
FVH (80°-90°)	326.9	1.2			G3/500
BL (0°-30°)	1421.6	5.3	B3/2500		
BM (30°-60°)	3327.8	12.5	B3/5000		
BH (60°-80°)	2707.8	10.2	B4/5000		G4/5000
BVH (80°-90°)	228.6	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1
2.5°	3299.7	3296.2	3289.2	3296.2	3299.7	3306.7	3303.2	3310.2	3306.7	3317.2	3334.7
5°	3215.7	3208.7	3205.2	3222.7	3233.2	3250.7	3257.7	3282.2	3278.7	3296.2	3324.2
7.5°	3121.2	3121.2	3117.7	3138.7	3152.7	3184.2	3208.7	3250.7	3254.2	3285.7	3317.2
10°	3047.7	3051.2	3047.7	3065.2	3086.2	3124.7	3166.7	3226.2	3229.7	3275.2	3306.7
12.5°	3019.7	3019.7	3019.7	3044.2	3072.2	3124.7	3173.7	3236.7	3243.7	3292.7	3320.7
15°	3058.2	3061.7	3054.7	3079.2	3110.7	3173.7	3219.2	3285.7	3292.7	3338.1	3355.6
17.5°	3194.7	3208.7	3191.2	3205.2	3198.2	3247.2	3289.2	3355.6	3359.1	3397.6	3404.6
20°	3464.1	3478.1	3450.1	3432.6	3369.6	3366.1	3383.6	3436.1	3436.1	3460.6	3443.1
22.5°	3880.5	3894.5	3845.5	3779.0	3628.6	3555.1	3516.6	3541.1	3537.6	3548.1	3502.6
25°	4433.4	4429.9	4370.4	4247.9	4006.5	3828.0	3733.5	3695.1	3695.1	3674.1	3618.1
27.5°	5119.2	5066.7	4961.7	4814.8	4478.9	4230.4	4027.5	3929.5	3912.0	3849.0	3744.0
30°	5850.5	5812.0	5661.6	5448.1	5059.7	4741.3	4405.4	4209.4	4198.9	4062.5	3905.0
32.5°	6711.3	6648.3	6480.3	6224.9	5759.5	5311.6	4891.8	4594.3	4576.8	4359.9	4142.9
35°	7817.0	7764.5	7439.1	7183.7	6585.3	5997.5	5500.6	5105.2	5091.2	4825.3	4548.8
37.5°	9143.2	9006.7	8691.8	8212.4	7582.6	6886.2	6256.4	5759.5	5742.0	5448.1	5098.2
40°	10325.9	10203.4	9923.5	9482.6	8807.3	8034.0	7180.2	6578.3	6560.8	6203.9	5763.0
42.5°	11200.6	11116.7	10934.7	10679.3	10196.4	9727.5	8359.4	7568.6	7537.1	7075.2	6525.8
45°	11708.0	11641.5	11536.6	11599.5	11592.5	11505.1	9766.0	8747.8	8646.3	8048.0	7376.1
47.5°	11585.5	11526.1	11568.1	12057.9	12733.3	13240.6	11403.6	9955.0	9818.5	9038.2	8282.4
50°	10700.3	10724.8	10945.2	11883.0	13398.1	14524.8	13219.6	11330.1	11148.2	10035.4	9143.2
52.5°	9087.2	9146.7	9682.0	10994.2	13324.6	15357.6	14860.7	12750.8	12509.3	11008.2	9927.0
55°	7218.7	7369.1	8061.9	9440.6	12365.9	15417.1	16099.4	14178.4	13912.5	11921.5	10609.3
57.5°	5339.6	5563.6	6364.9	7631.6	10528.8	14475.8	16718.7	15543.0	15221.1	12827.7	11330.1
60°	3387.1	3523.6	4447.4	5941.5	8058.4	12173.4	16638.3	16704.7	16424.8	13730.5	12082.4
62.5°	2162.4	2228.9	2694.3	4237.4	5633.6	9013.7	15760.0	17583.0	17394.1	14552.8	12796.2
65°	1389.1	1417.1	1655.1	2606.8	3835.0	5441.1	13573.0	17677.5	17702.0	15067.2	13237.1
67.5°	1130.2	1144.2	1231.7	1609.6	2711.8	3005.7	9454.6	16333.8	16631.3	14934.2	13086.7
70°	1028.7	1046.2	1137.2	1284.2	2099.5	2075.0	4576.8	13667.5	14153.9	14167.9	12418.3
72.5°	867.8	892.3	1014.7	1214.2	1623.6	1637.6	1938.5	9734.5	10451.8	12663.3	11414.1
75°	724.3	738.3	843.3	1070.7	1375.1	1308.7	1361.2	5161.2	6196.9	10154.4	10346.9
77.5°	587.9	601.8	678.8	853.8	1221.2	1018.2	1070.7	2138.0	2641.8	6893.2	8457.3
80°	419.9	433.9	521.4	664.8	923.8	916.8	794.3	1179.2	1280.7	3726.6	5493.6
82.5°	300.9	311.4	395.4	475.9	640.3	920.3	598.3	801.3	839.8	1651.6	2214.9
85°	202.9	202.9	272.9	314.9	412.9	580.9	482.9	542.4	566.9	783.8	598.3
87.5°	87.5	87.5	147.0	161.0	216.9	269.4	360.4	272.9	279.9	423.4	244.9
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°	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1
2.5°	3345.1	3348.6	3355.6	3376.6	3390.6	3411.6	3422.1	3436.1	3436.1	3429.1	3432.6
5°	3338.1	3348.6	3373.1	3411.6	3436.1	3474.6	3502.6	3523.6	3530.6	3523.6	3527.1
7.5°	3334.7	3352.1	3394.1	3450.1	3485.1	3534.1	3572.6	3597.1	3614.6	3607.6	3611.1
10°	3324.2	3352.1	3404.6	3474.6	3527.1	3576.1	3611.1	3621.6	3632.1	3625.1	3621.6
12.5°	3338.1	3369.6	3425.6	3509.6	3569.1	3607.6	3618.1	3600.6	3576.1	3562.1	3558.6
15°	3366.1	3397.6	3453.6	3541.1	3593.6	3607.6	3583.1	3527.1	3471.1	3439.6	3436.1
17.5°	3404.6	3425.6	3471.1	3548.1	3590.1	3572.6	3523.6	3457.1	3415.1	3390.6	3394.1
20°	3429.1	3429.1	3464.1	3523.6	3558.6	3544.6	3485.1	3411.6	3345.1	3313.7	3303.2
22.5°	3464.1	3446.6	3450.1	3502.6	3551.6	3530.6	3404.6	3275.2	3180.7	3145.7	3142.2
25°	3558.6	3509.6	3478.1	3509.6	3625.1	3453.6	3201.7	3051.2	2963.7	2932.3	2935.8
27.5°	3674.1	3607.6	3541.1	3593.6	3684.6	3278.7	2942.8	2771.3	2718.8	2694.3	2704.8
30°	3789.5	3702.1	3614.6	3803.5	3642.6	3005.7	2610.3	2442.4	2396.9	2379.4	2393.4
32.5°	4003.0	3859.5	3754.5	4083.5	3513.1	2694.3	2249.9	2096.0	2054.0	2033.0	2026.0
35°	4359.9	4177.9	4073.0	4328.4	3331.2	2347.9	1921.0	1812.5	1767.0	1721.6	1714.6
37.5°	4874.3	4653.8	4559.3	4468.4	3075.7	2005.0	1669.1	1595.6	1529.1	1459.1	1455.6
40°	5490.1	5203.2	5133.2	4531.3	2722.3	1683.1	1494.1	1424.1	1340.2	1273.7	1277.2
42.5°	6200.4	5833.0	5682.6	4513.9	2284.9	1511.6	1368.2	1291.2	1217.7	1158.2	1154.7
45°	6959.7	6543.3	6196.9	4391.4	1851.0	1392.6	1291.2	1200.2	1126.7	1060.2	1053.2
47.5°	7799.5	7334.1	6672.8	4153.4	1529.1	1308.7	1245.7	1116.2	1049.7	1007.7	1007.7
50°	8646.3	8089.9	7110.2	3793.0	1340.2	1245.7	1179.2	1070.7	1018.2	983.2	983.2
52.5°	9370.6	8877.2	7470.6	3362.6	1221.2	1193.2	1133.7	1049.7	993.7	962.3	958.8
55°	10073.9	9608.6	7792.5	2935.8	1123.2	1123.2	1123.2	1032.2	969.3	941.3	937.8
57.5°	10773.8	10378.4	8128.4	2655.8	1035.7	1063.7	1102.2	1011.2	948.3	923.8	920.3
60°	11564.6	11302.1	8516.8	2459.9	958.8	1000.7	1074.2	986.7	913.3	892.3	888.8
62.5°	12404.3	12404.3	8870.2	2183.4	888.8	948.3	1032.2	955.3	881.8	864.3	860.8
65°	13062.2	13345.6	9097.7	1770.5	818.8	895.8	983.2	913.3	839.8	836.3	829.3
67.5°	13139.2	13583.5	8954.2	1336.7	755.8	839.8	934.3	867.8	797.8	797.8	787.3
70°	12586.3	13037.7	8506.3	1000.7	710.3	783.8	871.3	811.8	745.3	752.3	734.8
72.5°	11662.5	11774.5	7393.6	790.8	657.8	724.3	794.3	748.8	689.3	689.3	664.8
75°	10444.8	9822.0	5371.1	661.3	594.8	654.3	717.3	678.8	626.3	608.8	594.8
77.5°	8313.9	7117.2	3121.2	570.4	542.4	587.9	629.8	601.8	556.4	517.9	517.9
80°	5066.7	4170.9	1378.6	493.4	479.4	514.4	542.4	510.9	472.4	433.9	423.4
82.5°	1928.0	1609.6	668.3	423.4	419.9	440.9	461.9	430.4	402.4	384.9	332.4
85°	528.4	486.4	458.4	353.4	346.4	342.9	367.4	353.4	314.9	258.9	230.9
87.5°	199.4	227.4	248.4	216.9	230.9	213.4	244.9	223.9	199.4	129.5	115.5
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)