

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: P399735

Luminaire Tested: **ARCH-L-PA3-180-760-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399735
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-PA3-180-760-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26662 lumens
Efficiency: N/A
Efficacy: 147.3 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

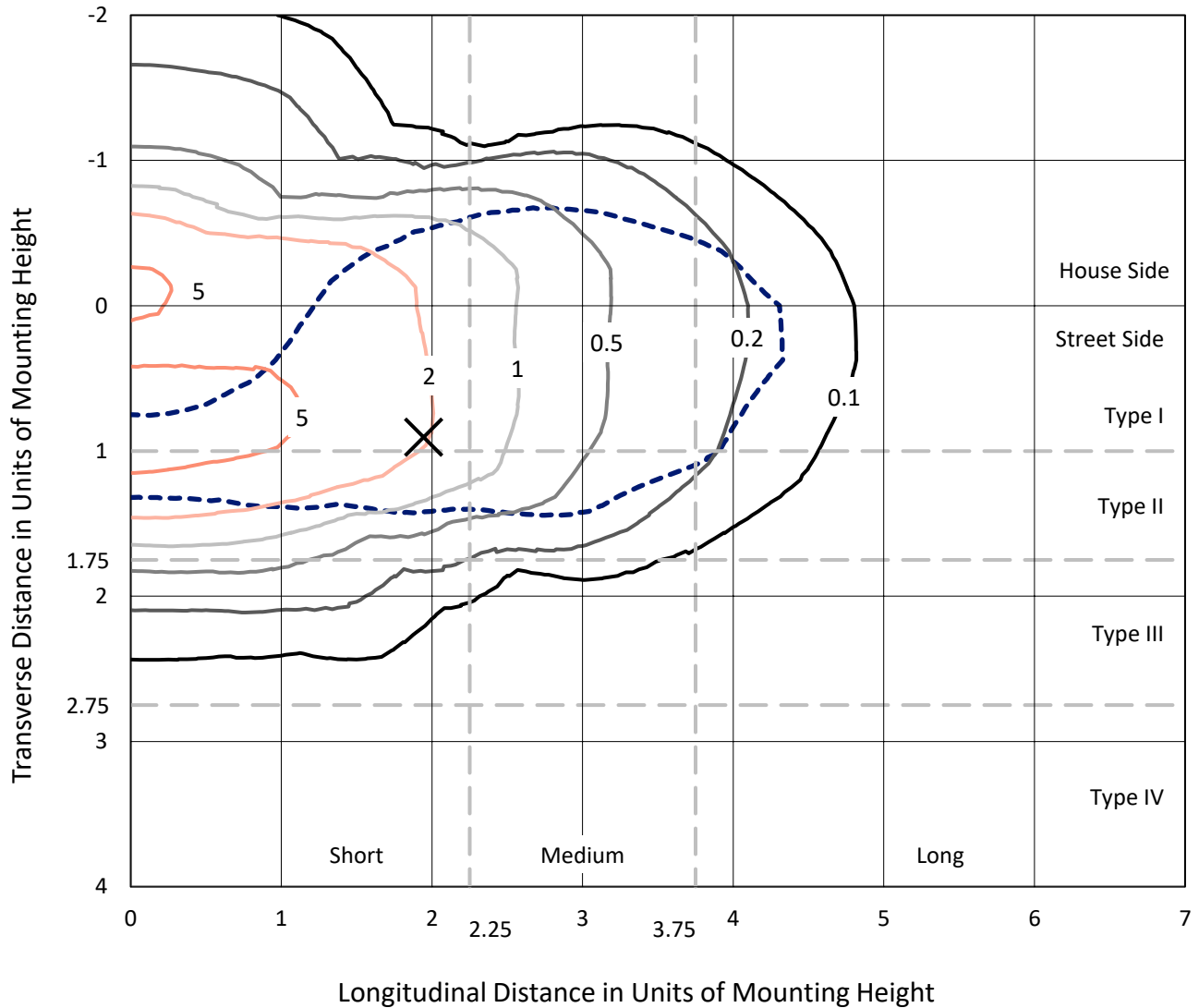
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

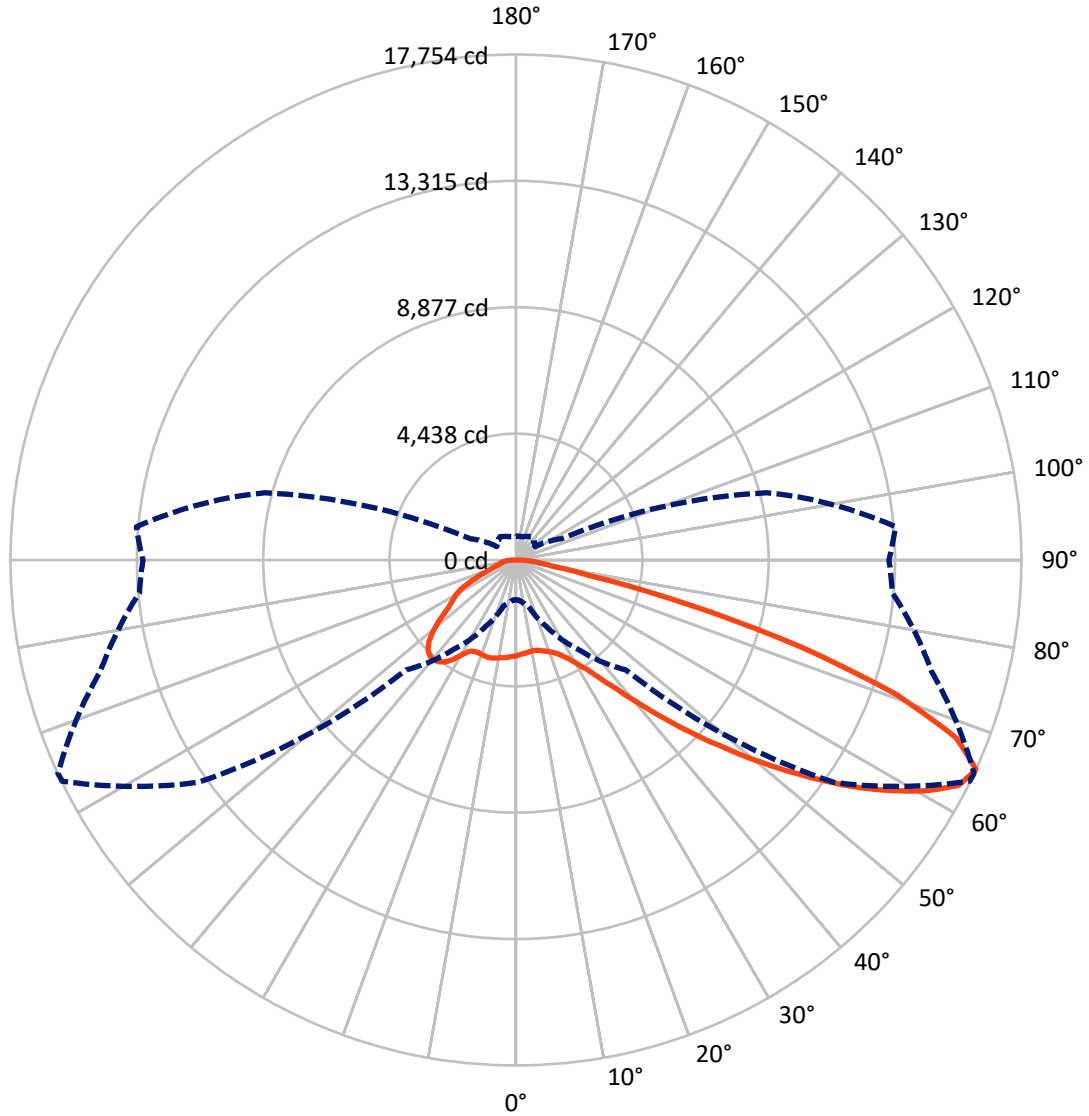
✕ Max cd
 - - - 1/2 Max cd



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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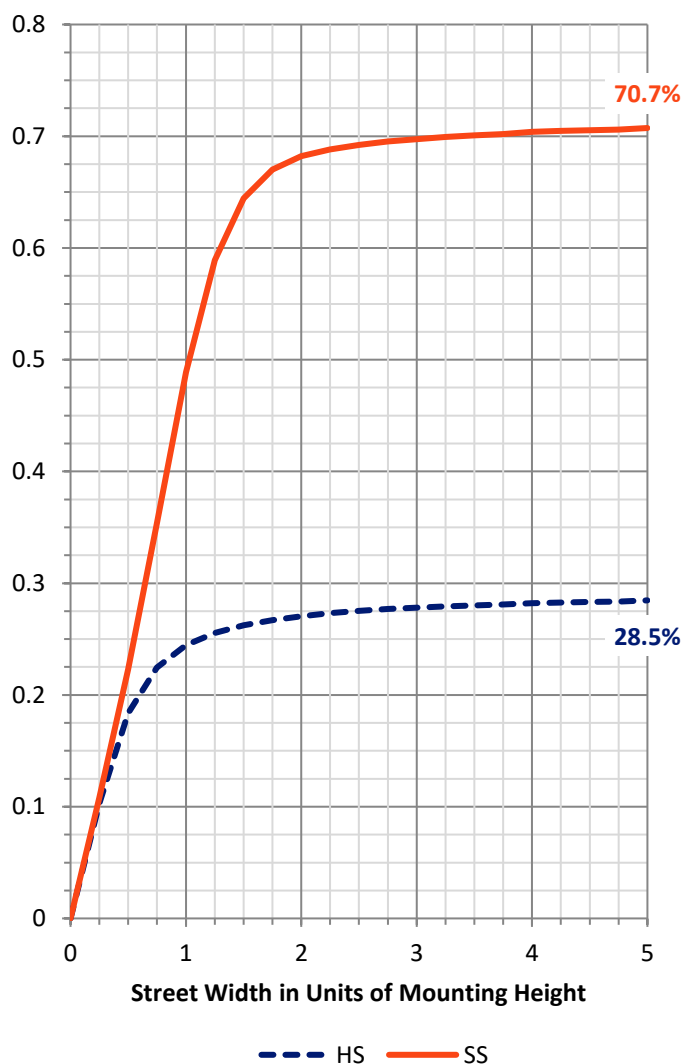
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7708.4	0.0	7708.4
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	18953.6	0.0	18953.6
	% Fixture	71.1	0.0	71.1
Total	Lumens	26662.0	0.0	26662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.0	1.2
10°-20°	958.3	3.6
20°-30°	1702.2	6.4
30°-40°	2879.7	10.8
40°-50°	5013.0	18.8
50°-60°	6478.4	24.3
60°-70°	5668.9	21.3
70°-80°	3083.5	11.6
80°-90°	557.1	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°	26662.0	100.0
0°-180°	26662.0	100.0

Coefficient of Utilization



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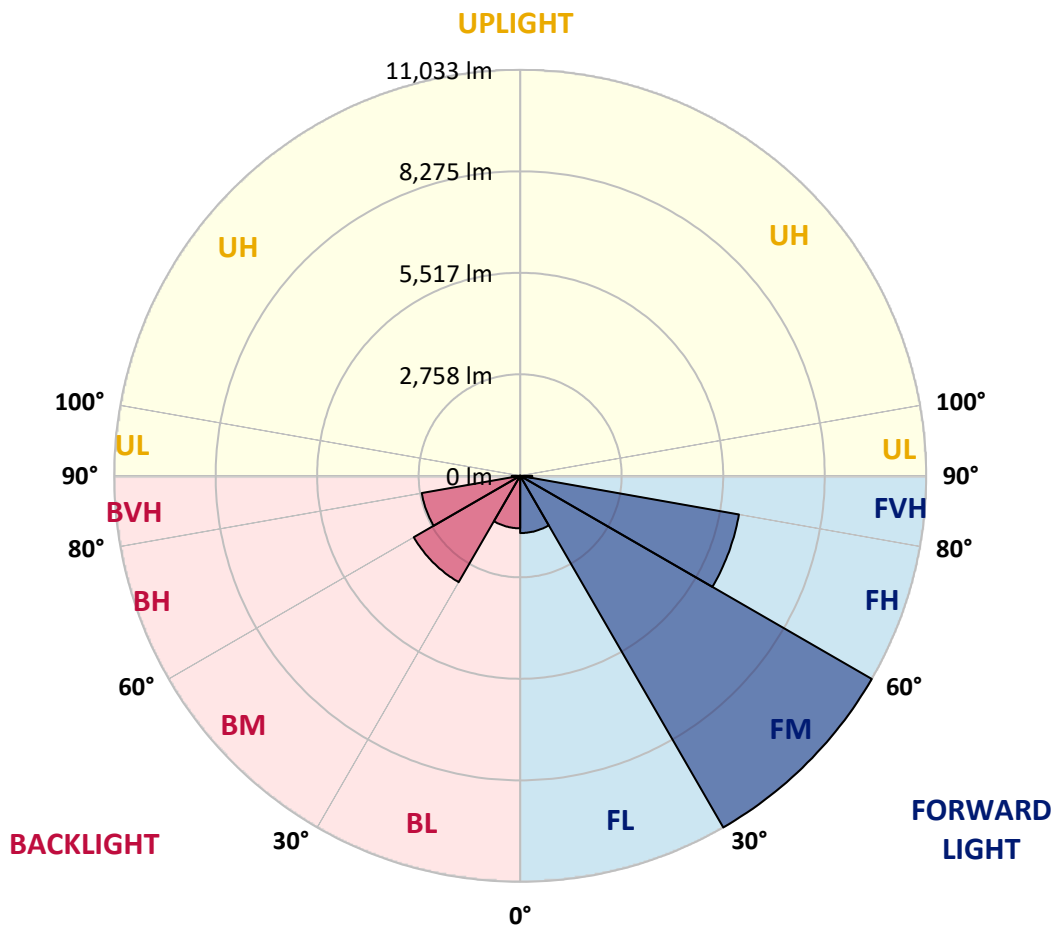
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.7	5.8			
FM (30°-60°)	11033.5	41.4			
FH (60°-80°)	6036.7	22.6			G3/7500
FVH (80°-90°)	327.8	1.2			G3/500
BL (0°-30°)	1425.8	5.3	B3/2500		
BM (30°-60°)	3337.6	12.5	B3/5000		
BH (60°-80°)	2715.8	10.2	B4/5000		G4/5000
BVH (80°-90°)	229.3	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°	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0
2.5°	3309.3	3305.8	3298.8	3305.8	3309.3	3316.4	3312.9	3319.9	3316.4	3326.9	3344.4
5°	3225.1	3218.1	3214.6	3232.1	3242.7	3260.2	3267.2	3291.8	3288.3	3305.8	3333.9
7.5°	3130.4	3130.4	3126.9	3147.9	3161.9	3193.5	3218.1	3260.2	3263.7	3295.3	3326.9
10°	3056.7	3060.2	3056.7	3074.2	3095.3	3133.9	3176.0	3235.6	3239.2	3284.8	3316.4
12.5°	3028.6	3028.6	3028.6	3053.2	3081.2	3133.9	3183.0	3246.2	3253.2	3302.3	3330.4
15°	3067.2	3070.7	3063.7	3088.3	3119.8	3183.0	3228.6	3295.3	3302.3	3347.9	3365.5
17.5°	3204.1	3218.1	3200.6	3214.6	3207.6	3256.7	3298.8	3365.5	3369.0	3407.6	3414.6
20°	3474.3	3488.3	3460.2	3442.7	3379.5	3376.0	3393.6	3446.2	3446.2	3470.8	3453.2
22.5°	3891.9	3905.9	3856.8	3790.1	3639.2	3565.5	3526.9	3551.5	3548.0	3558.5	3512.9
25°	4446.4	4442.9	4383.2	4260.4	4018.2	3839.3	3744.5	3705.9	3705.9	3684.8	3628.7
27.5°	5134.2	5081.6	4976.3	4828.9	4492.0	4242.8	4039.3	3941.0	3923.5	3860.3	3755.0
30°	5867.7	5829.1	5678.2	5464.1	5074.6	4755.2	4418.3	4221.8	4211.3	4074.4	3916.5
32.5°	6731.0	6667.8	6499.4	6243.2	5776.4	5327.2	4906.1	4607.8	4590.3	4372.7	4155.1
35°	7839.9	7787.3	7460.9	7204.7	6604.6	6015.1	5516.7	5120.2	5106.1	4839.4	4562.2
37.5°	9170.0	9033.1	8717.3	8236.5	7604.8	6906.5	6274.8	5776.4	5758.9	5464.1	5113.2
40°	10356.2	10233.3	9952.6	9510.4	8833.1	8057.5	7201.2	6597.6	6580.1	6222.1	5779.9
42.5°	11233.5	11149.3	10966.8	10710.6	10226.3	9756.1	8383.9	7590.8	7559.2	7096.0	6545.0
45°	11742.4	11675.7	11570.4	11633.6	11626.6	11538.8	9794.7	8773.4	8671.7	8071.6	7397.8
47.5°	11619.5	11559.9	11602.0	12093.3	12770.6	13279.5	11437.1	9984.2	9847.3	9064.7	8306.7
50°	10731.7	10756.2	10977.3	11917.8	13437.4	14567.4	13258.4	11363.4	11180.9	10064.9	9170.0
52.5°	9113.8	9173.5	9710.4	11026.5	13363.7	15402.6	14904.3	12788.2	12546.0	11040.5	9956.1
55°	7239.8	7390.7	8085.6	9468.3	12402.1	15462.3	16146.6	14220.0	13953.3	11956.4	10640.4
57.5°	5355.3	5579.9	6383.6	7653.9	10559.7	14518.3	16767.8	15588.6	15265.8	12865.4	11363.4
60°	3397.1	3533.9	4460.4	5958.9	8082.1	12209.1	16687.1	16753.8	16473.0	13770.8	12117.9
62.5°	2168.8	2235.5	2702.2	4249.9	5650.1	9040.2	15806.2	17634.6	17445.1	14595.5	12833.8
65°	1393.2	1421.3	1659.9	2614.5	3846.3	5457.1	13612.9	17729.4	17753.9	15111.4	13276.0
67.5°	1133.5	1147.6	1235.3	1614.3	2719.8	3014.6	9482.3	16381.8	16680.1	14978.0	13125.1
70°	1031.8	1049.3	1140.5	1287.9	2105.6	2081.1	4590.3	13707.6	14195.4	14209.5	12454.8
72.5°	870.3	894.9	1017.7	1217.8	1628.4	1642.4	1944.2	9763.1	10482.5	12700.4	11447.6
75°	726.4	740.5	845.8	1073.9	1379.2	1312.5	1365.1	5176.3	6215.1	10184.2	10377.2
77.5°	589.6	603.6	680.8	856.3	1224.8	1021.2	1073.9	2144.2	2649.6	6913.5	8482.2
80°	421.1	435.2	522.9	666.8	926.5	919.5	796.6	1182.7	1284.4	3737.5	5509.7
82.5°	301.8	312.3	396.6	477.3	642.2	923.0	600.1	803.6	842.3	1656.4	2221.4
85°	203.5	203.5	273.7	315.8	414.1	582.6	484.3	544.0	568.5	786.1	600.1
87.5°	87.7	87.7	147.4	161.4	217.6	270.2	361.5	273.7	280.8	424.6	245.7
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°	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0	3369.0
2.5°	3355.0	3358.5	3365.5	3386.5	3400.6	3421.6	3432.2	3446.2	3446.2	3439.2	3442.7
5°	3347.9	3358.5	3383.0	3421.6	3446.2	3484.8	3512.9	3533.9	3541.0	3533.9	3537.5
7.5°	3344.4	3362.0	3404.1	3460.2	3495.3	3544.5	3583.1	3607.6	3625.2	3618.2	3621.7
10°	3333.9	3362.0	3414.6	3484.8	3537.5	3586.6	3621.7	3632.2	3642.7	3635.7	3632.2
12.5°	3347.9	3379.5	3435.7	3519.9	3579.6	3618.2	3628.7	3611.1	3586.6	3572.5	3569.0
15°	3376.0	3407.6	3463.8	3551.5	3604.1	3618.2	3593.6	3537.5	3481.3	3449.7	3446.2
17.5°	3414.6	3435.7	3481.3	3558.5	3600.6	3583.1	3533.9	3467.3	3425.2	3400.6	3404.1
20°	3439.2	3439.2	3474.3	3533.9	3569.0	3555.0	3495.3	3421.6	3355.0	3323.4	3312.9
22.5°	3474.3	3456.7	3460.2	3512.9	3562.0	3541.0	3414.6	3284.8	3190.0	3154.9	3151.4
25°	3569.0	3519.9	3488.3	3519.9	3635.7	3463.8	3211.1	3060.2	2972.4	2940.9	2944.4
27.5°	3684.8	3618.2	3551.5	3604.1	3695.4	3288.3	2951.4	2779.4	2726.8	2702.2	2712.7
30°	3800.7	3712.9	3625.2	3814.7	3653.3	3014.6	2618.0	2449.5	2403.9	2386.4	2400.4
32.5°	4014.7	3870.8	3765.6	4095.4	3523.4	2702.2	2256.5	2102.1	2060.0	2038.9	2031.9
35°	4372.7	4190.2	4084.9	4341.1	3340.9	2354.8	1926.6	1817.9	1772.2	1726.6	1719.6
37.5°	4888.6	4667.5	4572.7	4481.5	3084.7	2010.9	1674.0	1600.3	1533.6	1463.4	1459.9
40°	5506.2	5218.4	5148.3	4544.6	2730.3	1688.0	1498.5	1428.3	1344.1	1277.4	1280.9
42.5°	6218.6	5850.1	5699.2	4527.1	2291.6	1516.1	1372.2	1295.0	1221.3	1161.6	1158.1
45°	6980.1	6562.5	6215.1	4404.3	1856.5	1396.7	1295.0	1203.7	1130.0	1063.3	1056.3
47.5°	7822.4	7355.7	6692.4	4165.6	1533.6	1312.5	1249.3	1119.5	1052.8	1010.7	1010.7
50°	8671.7	8113.7	7131.1	3804.2	1344.1	1249.3	1182.7	1073.9	1021.2	986.1	986.1
52.5°	9398.1	8903.3	7492.5	3372.5	1224.8	1196.7	1137.0	1052.8	996.7	965.1	961.6
55°	10103.5	9636.7	7815.4	2944.4	1126.5	1126.5	1126.5	1035.3	972.1	944.0	940.5
57.5°	10805.4	10408.8	8152.3	2663.6	1038.8	1066.9	1105.5	1014.2	951.0	926.5	923.0
60°	11598.5	11335.3	8541.8	2467.1	961.6	1003.7	1077.4	989.6	915.9	894.9	891.4
62.5°	12440.7	12440.7	8896.3	2189.9	891.4	951.0	1035.3	958.1	884.4	866.8	863.3
65°	13100.5	13384.8	9124.4	1775.7	821.2	898.4	986.1	915.9	842.3	838.7	831.7
67.5°	13177.7	13623.4	8980.5	1340.6	758.0	842.3	937.0	870.3	800.1	800.1	789.6
70°	12623.2	13075.9	8531.3	1003.7	712.4	786.1	873.8	814.2	747.5	754.5	737.0
72.5°	11696.7	11809.0	7415.3	793.1	659.8	726.4	796.6	751.0	691.3	691.3	666.8
75°	10475.5	9850.8	5386.9	663.3	596.6	656.3	719.4	680.8	628.2	610.6	596.6
77.5°	8338.3	7138.1	3130.4	572.0	544.0	589.6	631.7	603.6	558.0	519.4	519.4
80°	5081.6	4183.2	1382.7	494.8	480.8	515.9	544.0	512.4	473.8	435.2	424.6
82.5°	1933.7	1614.3	670.3	424.6	421.1	442.2	463.2	431.7	403.6	386.0	333.4
85°	529.9	487.8	459.7	354.4	347.4	343.9	368.5	354.4	315.8	259.7	231.6
87.5°	200.0	228.1	249.2	217.6	231.6	214.1	245.7	224.6	200.0	129.8	115.8
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)