

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: P237118

Luminaire Tested: **ARCH-L-AF72-250-D-U-T3-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-250-D-U-T3-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28240 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

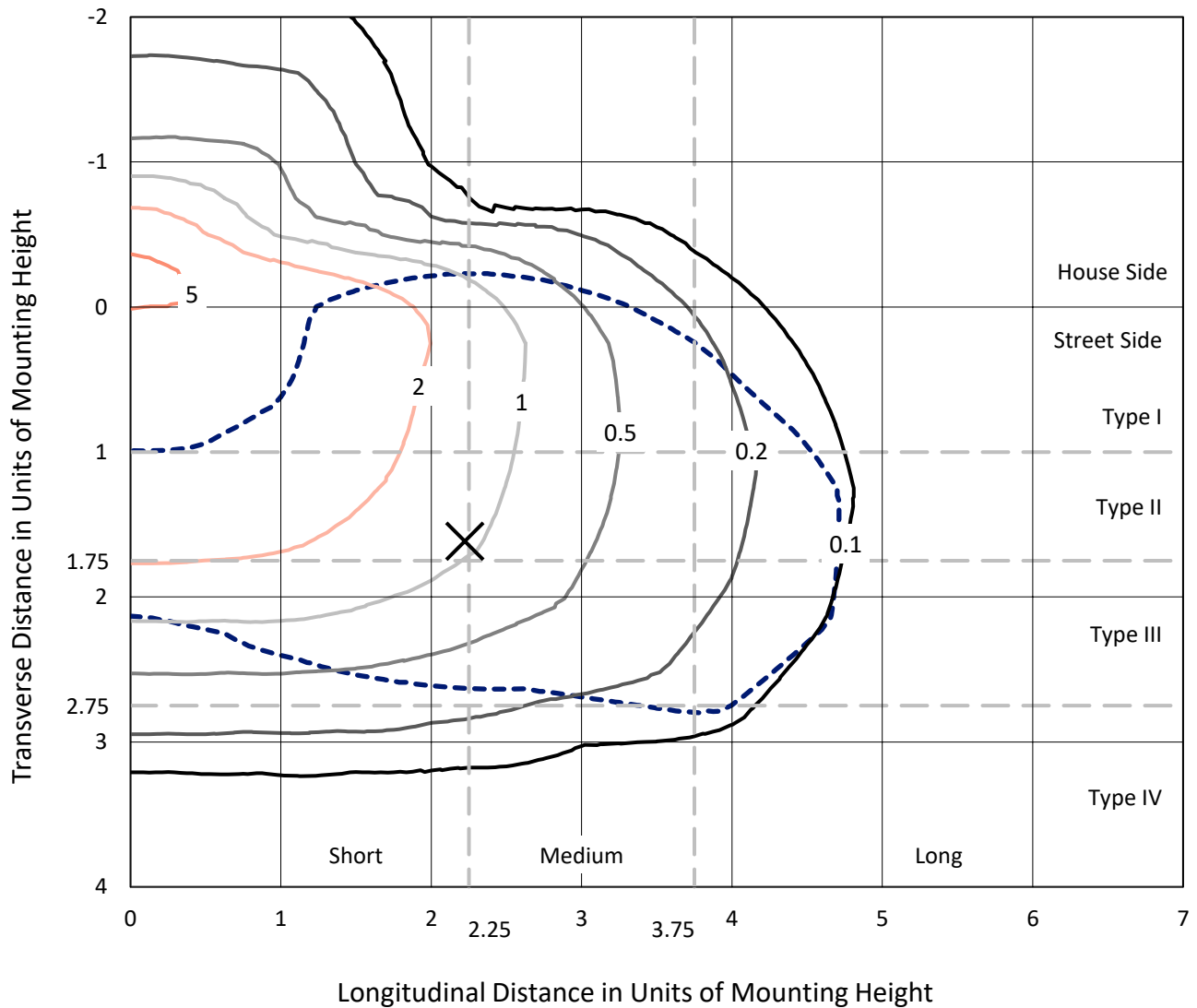
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

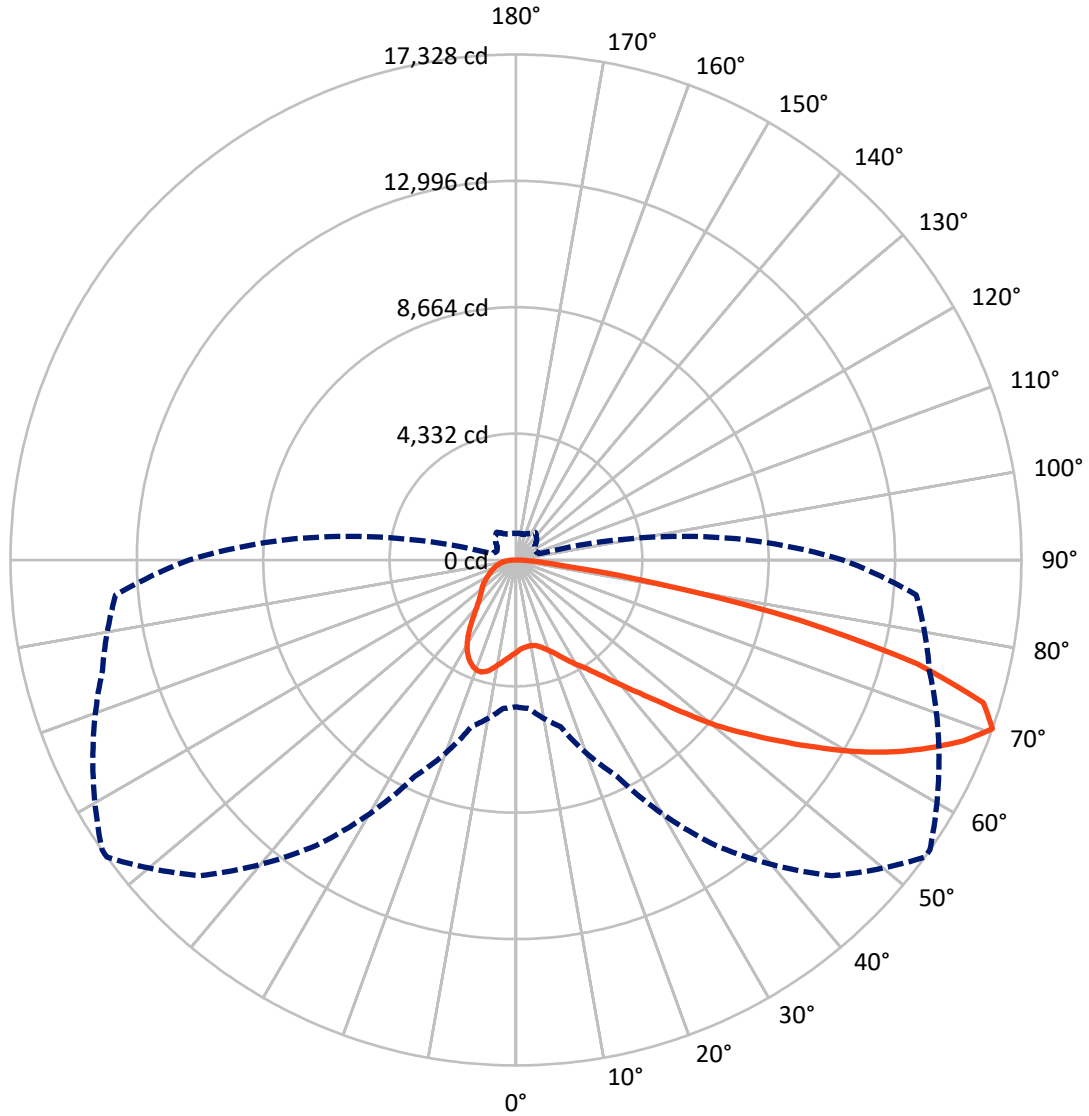
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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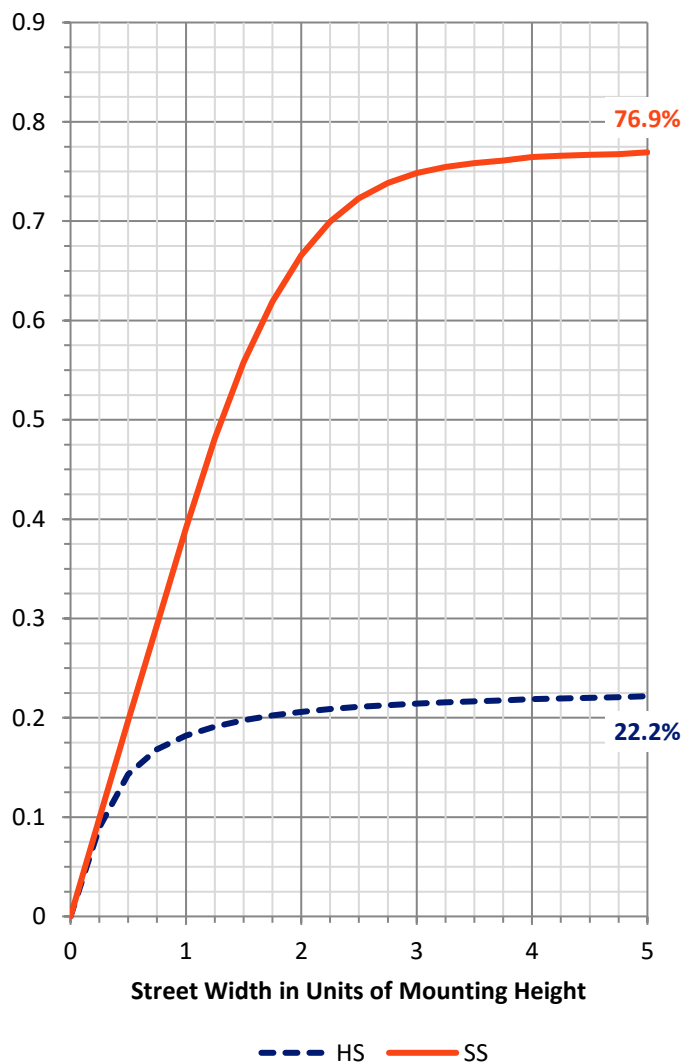
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6404.7	0.0	6404.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	21835.3	0.0	21835.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	28240.0	0.0	28240.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.1	1.1
10°-20°	990.7	3.5
20°-30°	1721.3	6.1
30°-40°	2515.4	8.9
40°-50°	3947.8	14.0
50°-60°	6070.9	21.5
60°-70°	7417.1	26.3
70°-80°	4598.6	16.3
80°-90°	668.1	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°	28240.0	100.0
0°-180°	28240.0	100.0



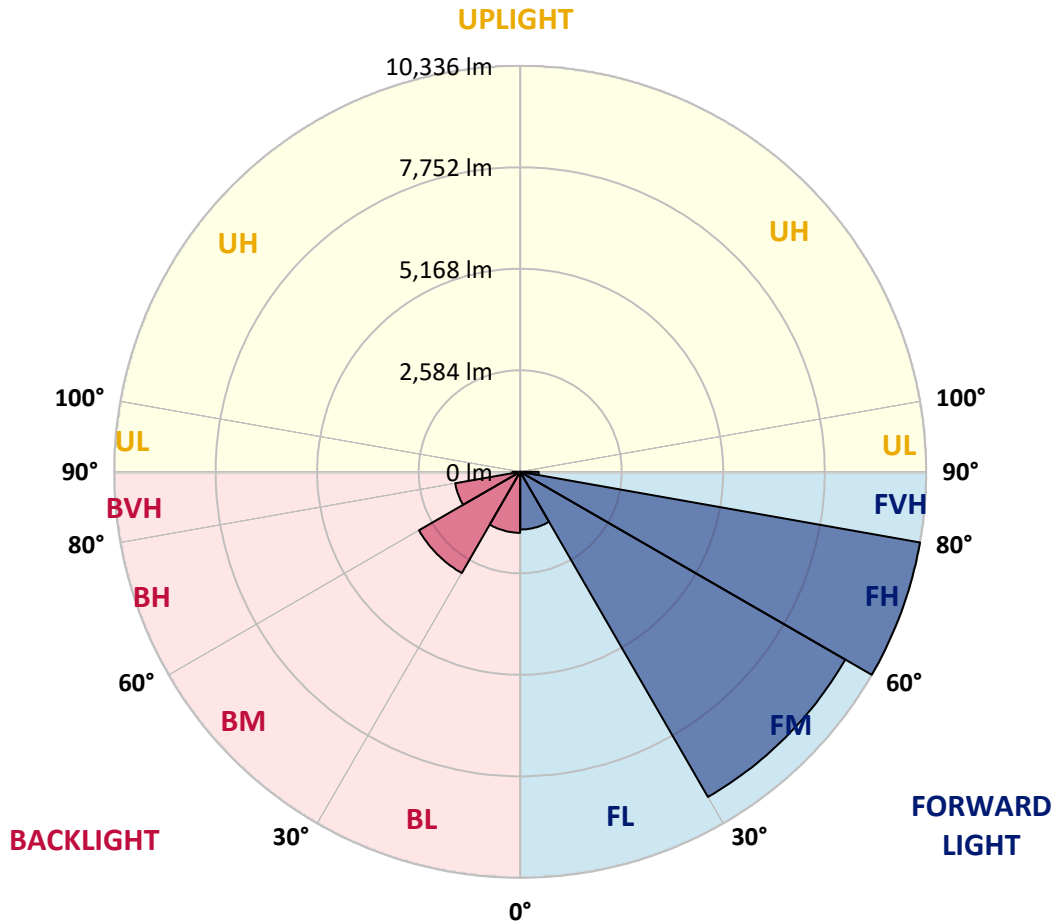
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.3	5.2			
FM (30°-60°)	9557.9	33.8			
FH (60°-80°)	10336.3	36.6			G4/12000
FVH (80°-90°)	471.7	1.7			G3/500
BL (0°-30°)	1552.7	5.5	B3/2500		
BM (30°-60°)	2976.2	10.5	B3/5000		
BH (60°-80°)	1679.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	196.3	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°	3159.5	3159.5	3159.5	3159.5	3159.5	3159.5	3159.5	3159.5	3159.5	3159.5	3159.5
2.5°	3035.4	3025.0	3025.0	3040.6	3045.7	3061.2	3061.2	3066.4	3081.9	3107.8	3138.8
5°	2942.3	2937.1	2942.3	2963.0	2973.3	3004.4	3014.7	3019.9	3050.9	3092.3	3138.8
7.5°	2849.2	2844.1	2854.4	2885.4	2916.4	2963.0	2988.8	2994.0	3040.6	3097.4	3159.5
10°	2818.2	2813.0	2828.5	2854.4	2885.4	2937.1	2978.5	2983.7	3050.9	3118.1	3206.0
12.5°	2859.6	2854.4	2869.9	2895.8	2926.8	2963.0	3009.5	3014.7	3102.6	3190.5	3283.6
15°	2963.0	2963.0	2968.2	2983.7	3014.7	3045.7	3087.1	3092.3	3185.3	3288.8	3381.8
17.5°	3123.3	3112.9	3112.9	3107.8	3128.5	3144.0	3195.7	3200.9	3299.1	3392.2	3485.3
20°	3319.8	3314.6	3293.9	3268.1	3262.9	3273.2	3325.0	3330.1	3428.4	3505.9	3593.9
22.5°	3557.7	3562.8	3516.3	3459.4	3433.5	3449.1	3495.6	3500.8	3573.2	3640.4	3718.0
25°	3873.1	3857.6	3790.3	3707.6	3655.9	3655.9	3702.4	3702.4	3769.7	3811.0	3862.7
27.5°	4173.0	4142.0	4079.9	3961.0	3878.3	3893.8	3940.3	3940.3	4002.4	4017.9	4043.7
30°	4498.8	4467.8	4390.2	4240.2	4131.6	4121.3	4178.2	4173.0	4255.7	4250.6	4229.9
32.5°	4896.9	4881.4	4752.2	4560.8	4416.0	4379.8	4431.6	4436.7	4488.4	4472.9	4405.7
35°	5455.4	5450.2	5331.3	4995.2	4803.9	4736.6	4767.7	4767.7	4803.9	4762.5	4648.7
37.5°	6158.7	6169.0	6065.6	5569.2	5300.3	5186.5	5191.7	5186.5	5196.9	5150.3	5031.4
40°	6861.9	6887.8	6882.6	6282.8	5941.5	5745.0	5672.6	5662.3	5688.1	5667.4	5553.7
42.5°	7787.5	7849.6	7704.8	7161.8	6779.2	6448.2	6251.7	6225.9	6282.8	6308.6	6200.0
45°	8749.3	8728.7	8501.1	8108.1	7761.7	7337.7	6965.3	6924.0	6965.3	7042.9	6929.2
47.5°	9250.9	9235.4	9178.5	8982.0	8930.3	8444.3	7880.6	7844.4	7766.9	7875.4	7741.0
50°	10078.3	10093.8	9861.1	9840.4	10057.6	9788.7	8914.8	8832.1	8692.5	8780.4	8666.6
52.5°	10678.1	10610.9	10466.1	10647.1	11324.5	11179.7	9887.0	9850.8	9721.5	9700.8	9649.1
55°	10921.2	10921.2	10947.0	11365.9	12332.9	12141.5	10941.9	10978.0	10802.2	10657.4	10724.7
57.5°	10993.6	11024.6	11246.9	11939.9	13517.0	12891.3	12105.3	12157.0	11903.7	11614.1	11826.1
60°	10636.8	10729.8	11262.5	12265.6	14184.1	13687.7	13330.9	13346.4	12979.2	12555.2	12927.5
62.5°	9721.5	9835.3	10786.7	12400.1	14075.5	14504.7	14489.2	14525.4	14023.8	13496.3	13961.7
65°	8599.4	8713.1	9726.7	12022.6	13992.7	15089.0	15549.2	15647.5	15001.1	14292.7	14608.1
67.5°	6949.8	7099.8	8061.6	10750.5	13589.4	15569.9	16542.1	16645.5	15756.1	14706.3	14551.2
70°	5036.6	5109.0	5915.6	8170.2	11945.0	15306.2	17328.0	17322.9	16004.3	14675.3	13775.6
72.5°	2425.2	2482.1	3180.2	5072.8	8542.5	12989.6	16759.2	16857.5	15663.0	14225.4	12001.9
75°	998.0	1054.9	1287.6	2140.8	4483.3	8583.9	14204.8	14437.5	14225.4	12767.2	9390.5
77.5°	620.5	641.2	755.0	1106.6	2047.7	4007.5	9943.8	10259.3	11272.8	10228.3	6200.0
80°	465.4	480.9	563.6	775.7	1292.8	1478.9	4938.3	5336.5	6830.9	5869.1	2807.9
82.5°	387.8	393.0	449.9	563.6	879.1	848.0	1582.3	1763.3	3185.3	2239.0	967.0
85°	362.0	372.3	403.3	403.3	558.5	532.6	656.7	687.7	925.6	765.3	336.1
87.5°	186.2	175.8	356.8	315.4	289.6	258.6	279.2	299.9	346.5	367.1	150.0
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°	3159.5	3159.5	3159.5	3159.5	3159.5	3159.5	3159.5	3159.5	3159.5	3159.5	3159.5
2.5°	3149.1	3164.7	3190.5	3216.4	3247.4	3283.6	3304.3	3330.1	3350.8	3340.5	3335.3
5°	3164.7	3190.5	3247.4	3299.1	3361.2	3433.5	3480.1	3531.8	3573.2	3583.5	3568.0
7.5°	3190.5	3237.1	3314.6	3407.7	3490.4	3583.5	3655.9	3728.3	3780.0	3790.3	3790.3
10°	3252.6	3304.3	3407.7	3531.8	3630.0	3728.3	3811.0	3867.9	3914.5	3935.1	3935.1
12.5°	3340.5	3402.5	3526.6	3676.6	3785.2	3878.3	3924.8	3950.6	3971.3	3992.0	3997.2
15°	3443.9	3511.1	3661.1	3821.4	3935.1	3981.7	3981.7	3976.5	3976.5	3986.8	3997.2
17.5°	3547.3	3619.7	3774.8	3945.5	4017.9	3992.0	3955.8	3940.3	3930.0	3924.8	3940.3
20°	3655.9	3728.3	3883.4	4043.7	4023.0	3914.5	3862.7	3826.5	3795.5	3780.0	3800.7
22.5°	3774.8	3842.1	4002.4	4111.0	3955.8	3790.3	3692.1	3635.2	3583.5	3552.5	3573.2
25°	3914.5	3981.7	4136.8	4131.6	3836.9	3604.2	3449.1	3356.0	3299.1	3268.1	3268.1
27.5°	4079.9	4136.8	4286.8	4079.9	3671.4	3356.0	3128.5	3040.6	3025.0	2999.2	2999.2
30°	4250.6	4297.1	4426.4	3961.0	3443.9	3030.2	2782.0	2740.6	2745.8	2719.9	2725.1
32.5°	4426.4	4472.9	4509.1	3785.2	3149.1	2663.1	2497.6	2466.6	2461.4	2440.7	2420.0
35°	4674.6	4741.8	4519.5	3547.3	2792.3	2358.0	2239.0	2208.0	2177.0	2104.6	2104.6
37.5°	5052.1	5124.5	4493.6	3252.6	2425.2	2120.1	2011.5	1970.2	1918.4	1846.0	1820.2
40°	5569.2	5569.2	4436.7	2921.6	2130.5	1928.8	1825.4	1773.7	1716.8	1644.4	1628.9
42.5°	6179.4	6034.6	4348.8	2585.5	1913.3	1799.5	1706.4	1649.6	1582.3	1499.6	1489.3
45°	6893.0	6500.0	4224.7	2285.6	1753.0	1721.9	1665.1	1566.8	1453.1	1365.1	1349.6
47.5°	7585.9	6918.8	4105.8	2073.6	1618.5	1690.9	1644.4	1478.9	1323.8	1199.7	1184.2
50°	8346.0	7291.1	3966.2	1897.8	1515.1	1670.2	1618.5	1349.6	1179.0	1091.1	1080.7
52.5°	9106.1	7668.6	3816.2	1711.6	1427.2	1628.9	1556.5	1256.6	1173.8	1054.9	1039.4
55°	9907.7	8108.1	3640.4	1504.8	1323.8	1546.1	1473.7	1251.4	1210.0	1054.9	1018.7
57.5°	10688.5	8594.2	3356.0	1303.1	1210.0	1422.0	1442.7	1220.4	1132.5	1044.5	1003.2
60°	11552.0	9111.3	2885.4	1132.5	1111.8	1318.6	1401.3	1153.1	1044.5	1013.5	992.8
62.5°	12244.9	9576.7	2254.6	1013.5	1029.0	1235.9	1349.6	1111.8	1008.3	982.5	977.3
65°	12544.9	9587.0	1618.5	910.1	946.3	1158.3	1297.9	1075.6	977.3	967.0	961.8
67.5°	12229.4	9059.6	1137.6	811.8	858.4	1085.9	1230.7	1039.4	946.3	951.5	941.1
70°	11210.7	7947.8	832.5	718.8	775.7	1008.3	1158.3	992.8	910.1	920.4	904.9
72.5°	9380.2	6194.9	667.1	641.2	708.4	925.6	1085.9	941.1	853.2	858.4	827.4
75°	6929.2	4105.8	558.5	574.0	630.9	848.0	992.8	873.9	791.2	770.5	749.8
77.5°	4121.3	2109.8	460.2	501.6	563.6	755.0	889.4	791.2	723.9	687.7	672.2
80°	1701.3	853.2	377.5	424.0	491.2	672.2	786.0	692.9	646.4	610.2	589.5
82.5°	677.4	418.9	299.9	346.5	413.7	584.3	687.7	610.2	563.6	537.8	480.9
85°	258.6	206.8	201.7	243.0	310.3	449.9	568.8	511.9	475.7	408.5	393.0
87.5°	103.4	93.1	93.1	118.9	175.8	284.4	408.5	356.8	372.3	294.7	299.9
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)