

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: P237079

Luminaire Tested: **ARCH-L-AF72-260-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27959.4 lumens
Efficiency: N/A
Efficacy: 107.1 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

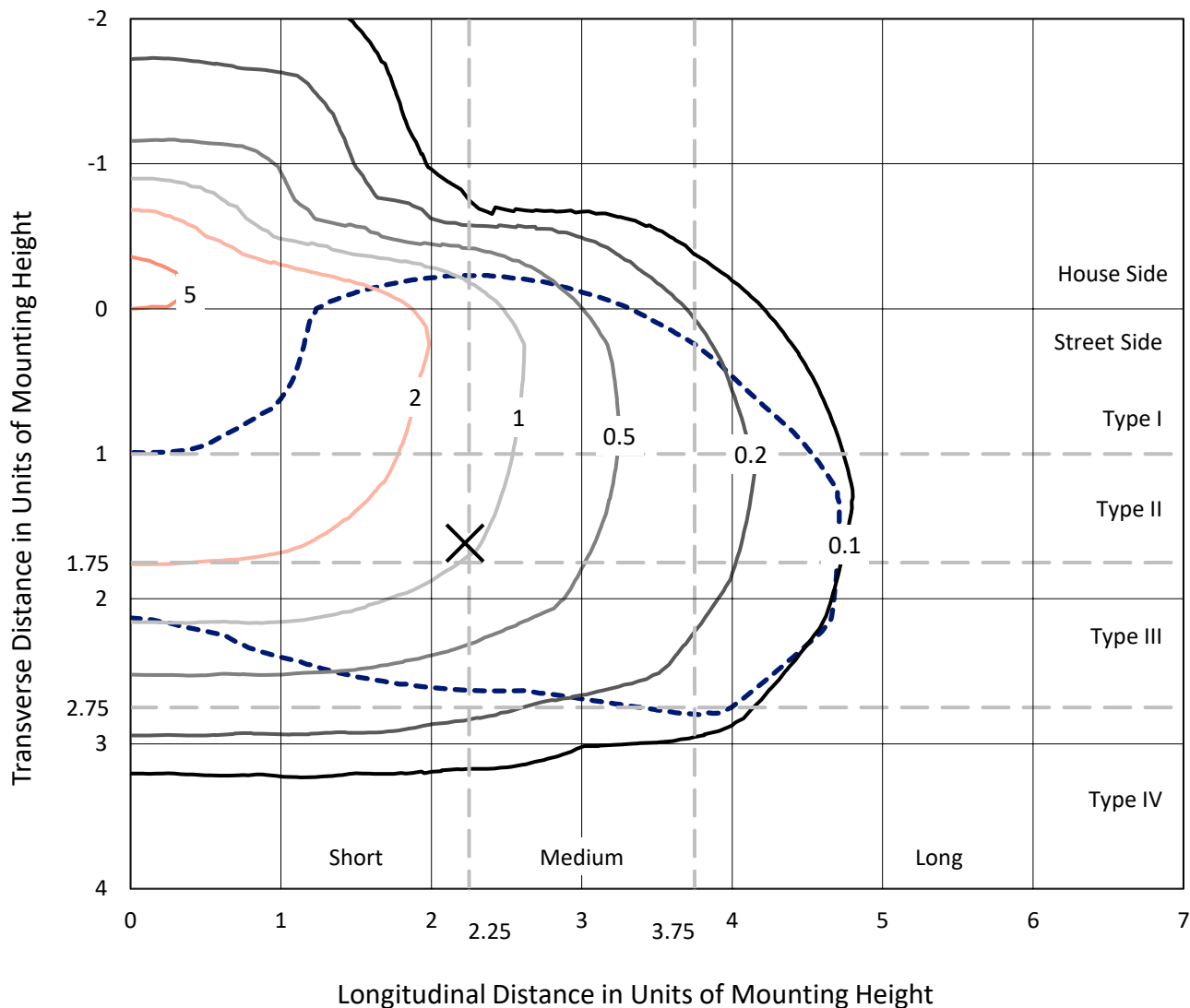
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

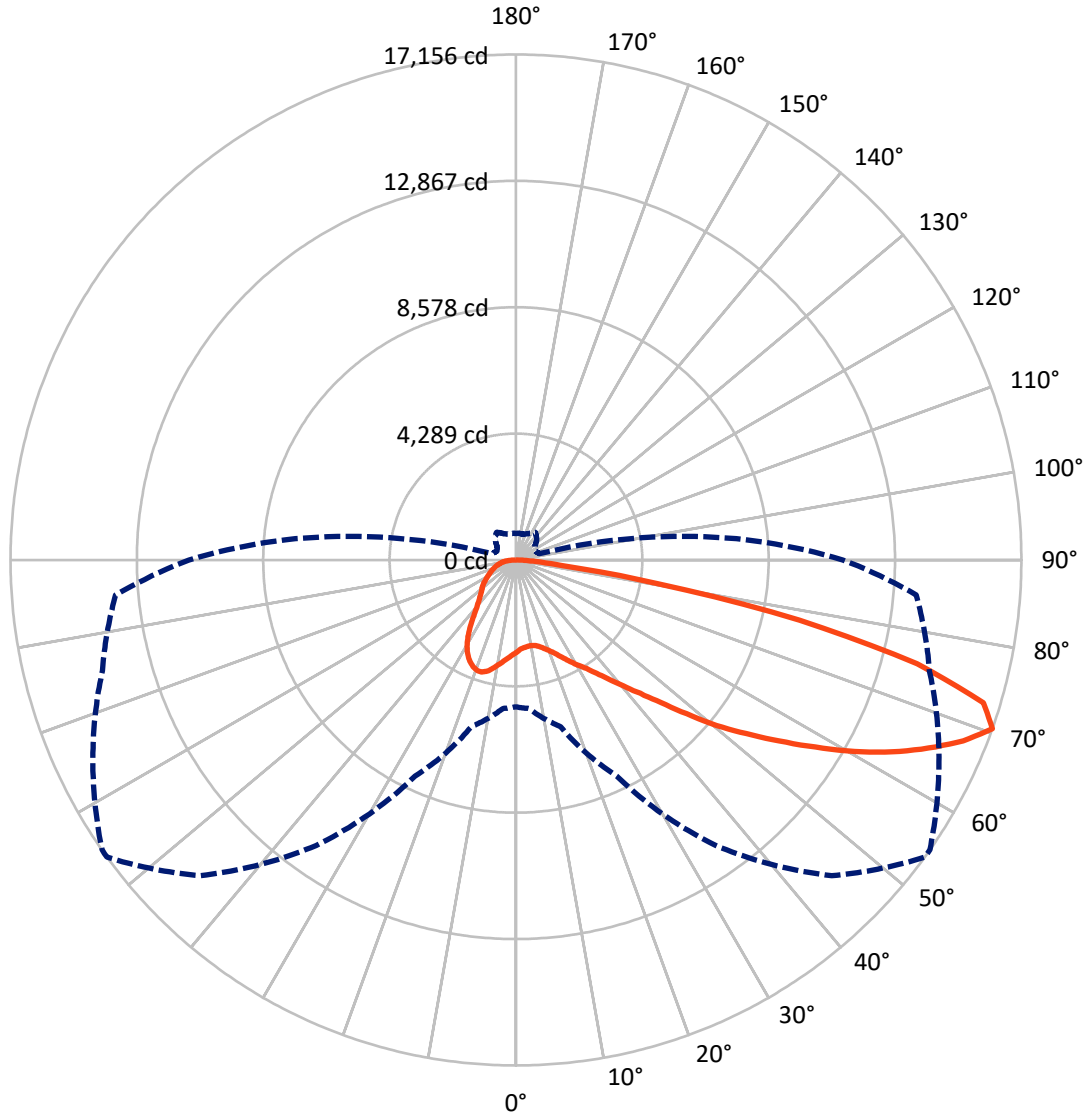
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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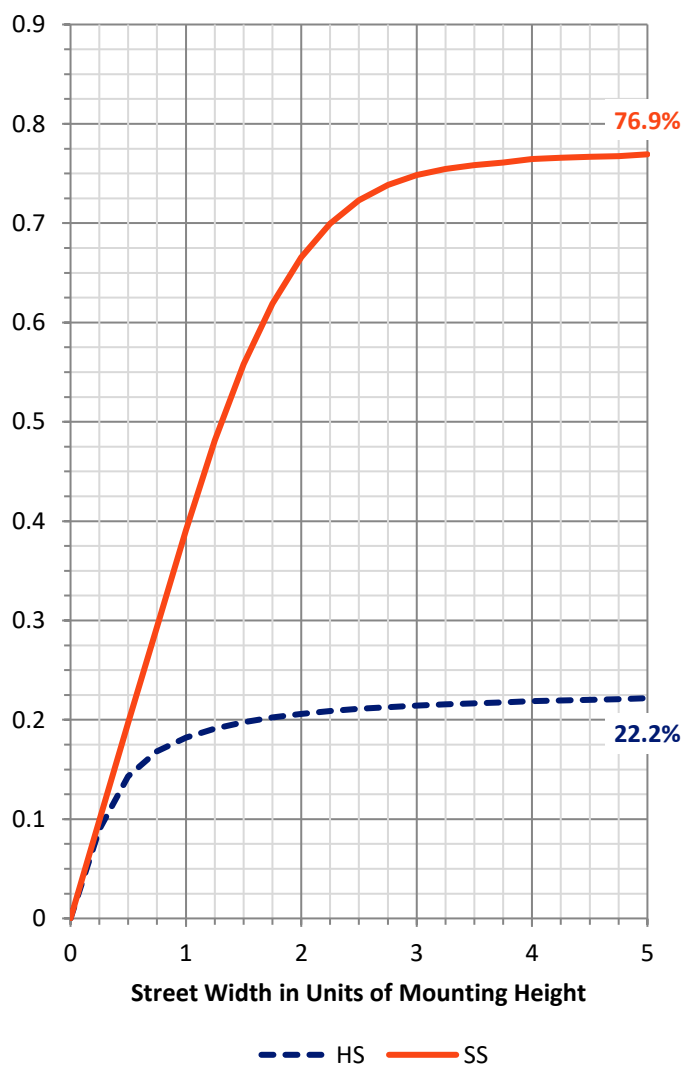
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6341.1	0.0	6341.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	21618.3	0.0	21618.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	27959.4	0.0	27959.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.0	1.1
10°-20°	980.9	3.5
20°-30°	1704.2	6.1
30°-40°	2490.4	8.9
40°-50°	3908.6	14.0
50°-60°	6010.6	21.5
60°-70°	7343.4	26.3
70°-80°	4553.0	16.3
80°-90°	661.4	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°	27959.4	100.0
0°-180°	27959.4	100.0

Coefficient of Utilization



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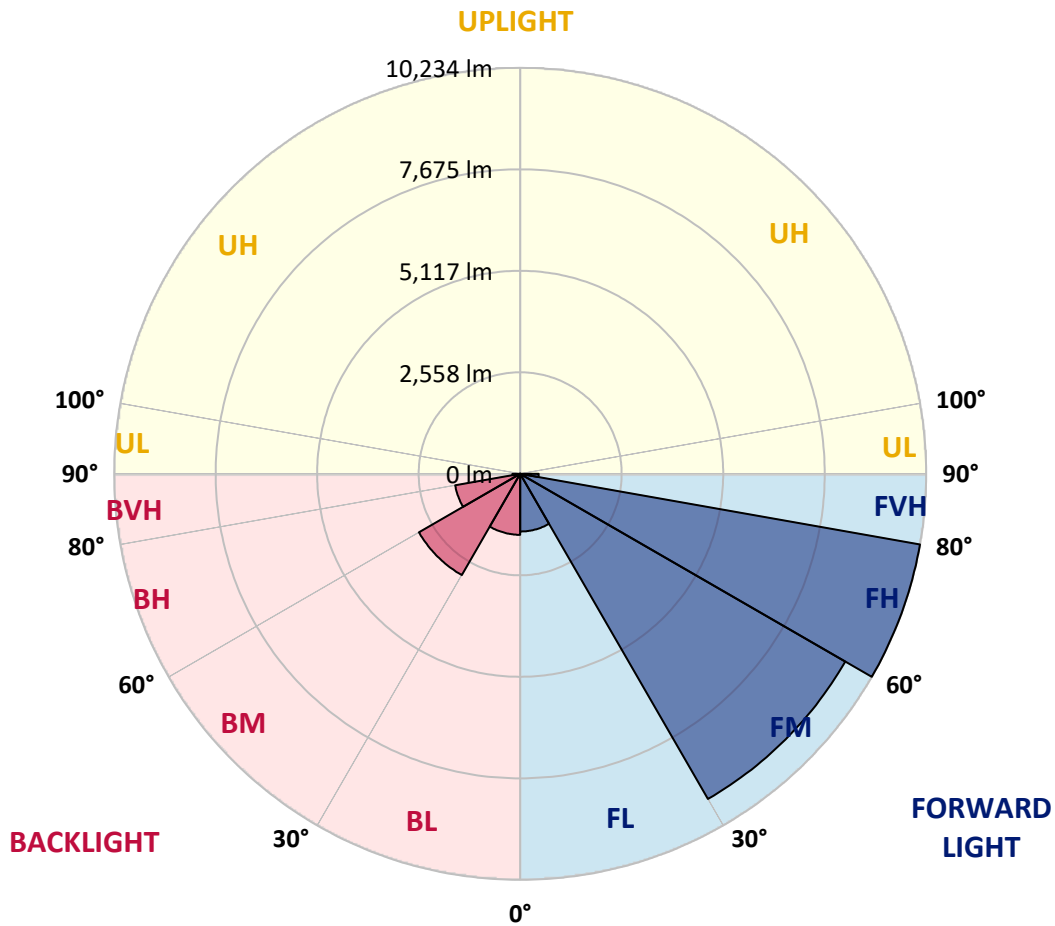
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1454.7	5.2			
FM (30°-60°)	9463.0	33.8			
FH (60°-80°)	10233.6	36.6			G4/12000
FVH (80°-90°)	467.0	1.7			G3/500
BL (0°-30°)	1537.3	5.5	B3/2500		
BM (30°-60°)	2946.6	10.5	B3/5000		
BH (60°-80°)	1662.8	5.9	B3/2500		G3/2500
BVH (80°-90°)	194.4	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°	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1
2.5°	3005.1	2995.1	2995.1	3010.3	3015.4	3030.9	3030.9	3036.0	3051.3	3076.8	3107.7
5°	2913.1	2907.9	2913.1	2933.5	2943.8	2974.5	2984.8	2989.9	3020.6	3061.6	3107.7
7.5°	2821.0	2815.8	2826.0	2856.8	2887.5	2933.5	2959.2	2964.3	3010.3	3066.7	3128.1
10°	2790.2	2785.1	2800.5	2826.0	2856.8	2907.9	2948.9	2954.1	3020.6	3087.1	3174.2
12.5°	2831.1	2826.0	2841.4	2867.0	2897.7	2933.5	2979.6	2984.8	3071.9	3158.8	3251.0
15°	2933.5	2933.5	2938.6	2954.1	2984.8	3015.4	3056.4	3061.6	3153.7	3256.0	3348.2
17.5°	3092.2	3081.9	3081.9	3076.8	3097.4	3112.7	3163.9	3169.1	3266.3	3358.5	3450.6
20°	3286.8	3281.7	3261.2	3235.6	3230.5	3240.7	3291.9	3297.0	3394.3	3471.1	3558.1
22.5°	3522.3	3527.4	3481.3	3425.1	3399.4	3414.8	3460.9	3466.0	3537.7	3604.3	3681.1
25°	3834.6	3819.2	3752.7	3670.8	3619.5	3619.5	3665.6	3665.6	3732.2	3773.2	3824.4
27.5°	4131.5	4100.8	4039.5	3921.7	3839.7	3855.1	3901.2	3901.2	3962.7	3977.9	4003.6
30°	4454.1	4423.4	4346.6	4198.1	4090.5	4080.4	4136.7	4131.5	4213.5	4208.3	4187.9
32.5°	4848.3	4833.0	4704.9	4515.4	4372.1	4336.3	4387.6	4392.7	4443.8	4428.5	4361.9
35°	5401.2	5396.1	5278.4	4945.6	4756.2	4689.6	4720.3	4720.3	4756.2	4715.2	4602.5
37.5°	6097.4	6107.7	6005.3	5513.9	5247.6	5134.9	5140.1	5134.9	5145.2	5099.1	4981.4
40°	6793.7	6819.3	6814.3	6220.3	5882.4	5687.9	5616.3	5606.0	5631.6	5611.1	5498.5
42.5°	7710.2	7771.6	7628.3	7090.7	6711.8	6384.2	6189.6	6164.1	6220.3	6246.0	6138.4
45°	8662.4	8642.0	8416.7	8027.6	7684.5	7264.7	6896.1	6855.2	6896.1	6972.9	6860.3
47.5°	9158.9	9143.7	9087.3	8892.8	8841.6	8360.4	7802.3	7766.4	7689.6	7797.2	7664.1
50°	9978.2	9993.5	9763.2	9742.6	9957.7	9691.6	8826.3	8744.3	8606.2	8693.1	8580.4
52.5°	10572.0	10505.5	10362.1	10541.4	11211.9	11068.6	9788.7	9752.9	9624.8	9604.4	9553.2
55°	10812.7	10812.7	10838.3	11252.9	12210.4	12020.9	10833.2	10869.0	10695.0	10551.6	10618.2
57.5°	10884.3	10915.1	11135.1	11821.2	13382.7	12763.2	11985.0	12036.2	11785.4	11498.7	11708.7
60°	10531.1	10623.3	11150.6	12143.7	14043.2	13551.7	13198.4	13213.9	12850.3	12430.4	12799.0
62.5°	9624.8	9737.5	10679.5	12276.9	13935.7	14360.6	14345.2	14381.0	13884.4	13362.3	13823.1
65°	8513.9	8626.6	9630.0	11903.1	13853.7	14939.1	15394.7	15492.0	14852.0	14150.7	14462.9
67.5°	6880.8	7029.3	7981.5	10643.7	13454.4	15415.2	16377.8	16480.1	15599.5	14560.2	14406.7
70°	4986.5	5058.1	5856.9	8089.0	11826.3	15154.1	17155.9	17150.8	15845.4	14529.6	13638.8
72.5°	2401.1	2457.5	3148.6	5022.3	8457.6	12860.5	16592.7	16690.0	15507.3	14084.1	11882.7
75°	988.1	1044.4	1274.8	2119.5	4438.7	8498.6	14063.7	14294.1	14084.1	12640.4	9297.3
77.5°	614.4	634.8	747.5	1095.7	2027.5	3967.7	9845.1	10157.4	11160.9	10126.5	6138.4
80°	460.7	476.2	558.0	768.0	1279.9	1464.2	4889.3	5283.4	6763.0	5810.7	2780.0
82.5°	383.9	389.1	445.4	558.0	870.4	839.6	1566.6	1745.8	3153.7	2216.8	957.3
85°	358.4	368.6	399.4	399.4	553.0	527.2	650.2	680.9	916.4	757.7	332.8
87.5°	184.3	174.0	353.2	312.3	286.7	256.0	276.4	296.9	343.0	363.5	148.5
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°	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1
2.5°	3117.8	3133.2	3158.8	3184.4	3215.2	3251.0	3271.4	3297.0	3317.5	3307.3	3302.2
5°	3133.2	3158.8	3215.2	3266.3	3327.7	3399.4	3445.5	3496.8	3537.7	3547.8	3532.6
7.5°	3158.8	3204.9	3281.7	3373.8	3455.8	3547.8	3619.5	3691.3	3742.4	3752.7	3752.7
10°	3220.2	3271.4	3373.8	3496.8	3594.0	3691.3	3773.2	3829.5	3875.5	3896.0	3896.0
12.5°	3307.3	3368.7	3491.6	3640.1	3747.6	3839.7	3885.8	3911.4	3931.9	3952.4	3957.5
15°	3409.7	3476.2	3624.6	3783.4	3896.0	3942.1	3942.1	3937.0	3937.0	3947.2	3957.5
17.5°	3512.0	3583.7	3737.3	3906.2	3977.9	3952.4	3916.5	3901.2	3890.9	3885.8	3901.2
20°	3619.5	3691.3	3844.9	4003.6	3983.0	3875.5	3824.4	3788.6	3757.9	3742.4	3762.9
22.5°	3737.3	3803.9	3962.7	4070.1	3916.5	3752.7	3655.4	3599.1	3547.8	3517.2	3537.7
25°	3875.5	3942.1	4095.7	4090.5	3798.7	3568.4	3414.8	3322.7	3266.3	3235.6	3235.6
27.5°	4039.5	4095.7	4244.1	4039.5	3634.9	3322.7	3097.4	3010.3	2995.1	2969.3	2969.3
30°	4208.3	4254.4	4382.4	3921.7	3409.7	3000.2	2754.3	2713.5	2718.5	2692.9	2698.0
32.5°	4382.4	4428.5	4464.4	3747.6	3117.8	2636.7	2472.7	2442.1	2436.9	2416.5	2395.9
35°	4628.1	4694.7	4474.6	3512.0	2764.6	2334.6	2216.8	2186.1	2155.3	2083.7	2083.7
37.5°	5001.9	5073.6	4448.9	3220.2	2401.1	2099.1	1991.6	1950.6	1899.4	1827.7	1802.1
40°	5513.9	5513.9	4392.7	2892.6	2109.2	1909.7	1807.2	1756.1	1699.7	1628.1	1612.6
42.5°	6118.0	5974.7	4305.6	2559.8	1894.2	1781.6	1689.4	1633.2	1566.6	1484.8	1474.5
45°	6824.5	6435.4	4182.8	2262.9	1735.6	1704.9	1648.5	1551.3	1438.6	1351.5	1336.2
47.5°	7510.5	6850.1	4065.0	2053.0	1602.4	1674.1	1628.1	1464.2	1310.7	1187.7	1172.4
50°	8263.1	7218.6	3926.8	1878.9	1500.0	1653.6	1602.4	1336.2	1167.3	1080.2	1069.9
52.5°	9015.6	7592.4	3778.3	1694.6	1413.0	1612.6	1541.0	1244.0	1162.2	1044.4	1029.0
55°	9809.2	8027.6	3604.3	1489.9	1310.7	1530.7	1459.0	1239.0	1198.0	1044.4	1008.6
57.5°	10582.3	8508.8	3322.7	1290.2	1198.0	1408.0	1428.3	1208.2	1121.2	1034.1	993.1
60°	11437.3	9020.8	2856.8	1121.2	1100.7	1305.5	1387.4	1141.6	1034.1	1003.4	983.0
62.5°	12123.3	9481.5	2232.1	1003.4	1018.9	1223.6	1336.2	1100.7	998.3	972.7	967.6
65°	12420.3	9491.8	1602.4	901.1	936.9	1146.7	1285.0	1064.8	967.6	957.3	952.3
67.5°	12107.9	8969.6	1126.4	803.8	849.8	1075.1	1218.5	1029.0	936.9	942.1	931.8
70°	11099.3	7868.9	824.3	711.6	768.0	998.3	1146.7	983.0	901.1	911.3	895.9
72.5°	9287.0	6133.3	660.5	634.8	701.5	916.4	1075.1	931.8	844.8	849.8	819.1
75°	6860.3	4065.0	553.0	568.2	624.6	839.6	983.0	865.3	783.3	762.8	742.3
77.5°	4080.4	2088.8	455.6	496.6	558.0	747.5	880.6	783.3	716.7	680.9	665.5
80°	1684.3	844.8	373.7	419.8	486.3	665.5	778.2	686.0	639.9	604.1	583.7
82.5°	670.7	414.6	296.9	343.0	409.6	578.5	680.9	604.1	558.0	532.4	476.2
85°	256.0	204.8	199.6	240.6	307.1	445.4	563.1	506.9	471.0	404.5	389.1
87.5°	102.3	92.1	92.1	117.8	174.0	281.6	404.5	353.2	368.6	291.8	296.9
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)