

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: P237116

Luminaire Tested: **ARCH-L-AF72-230-D-U-T3-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237116
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-AF72-230-D-U-T3-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26703 lumens
Efficiency: N/A
Efficacy: 116.6 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

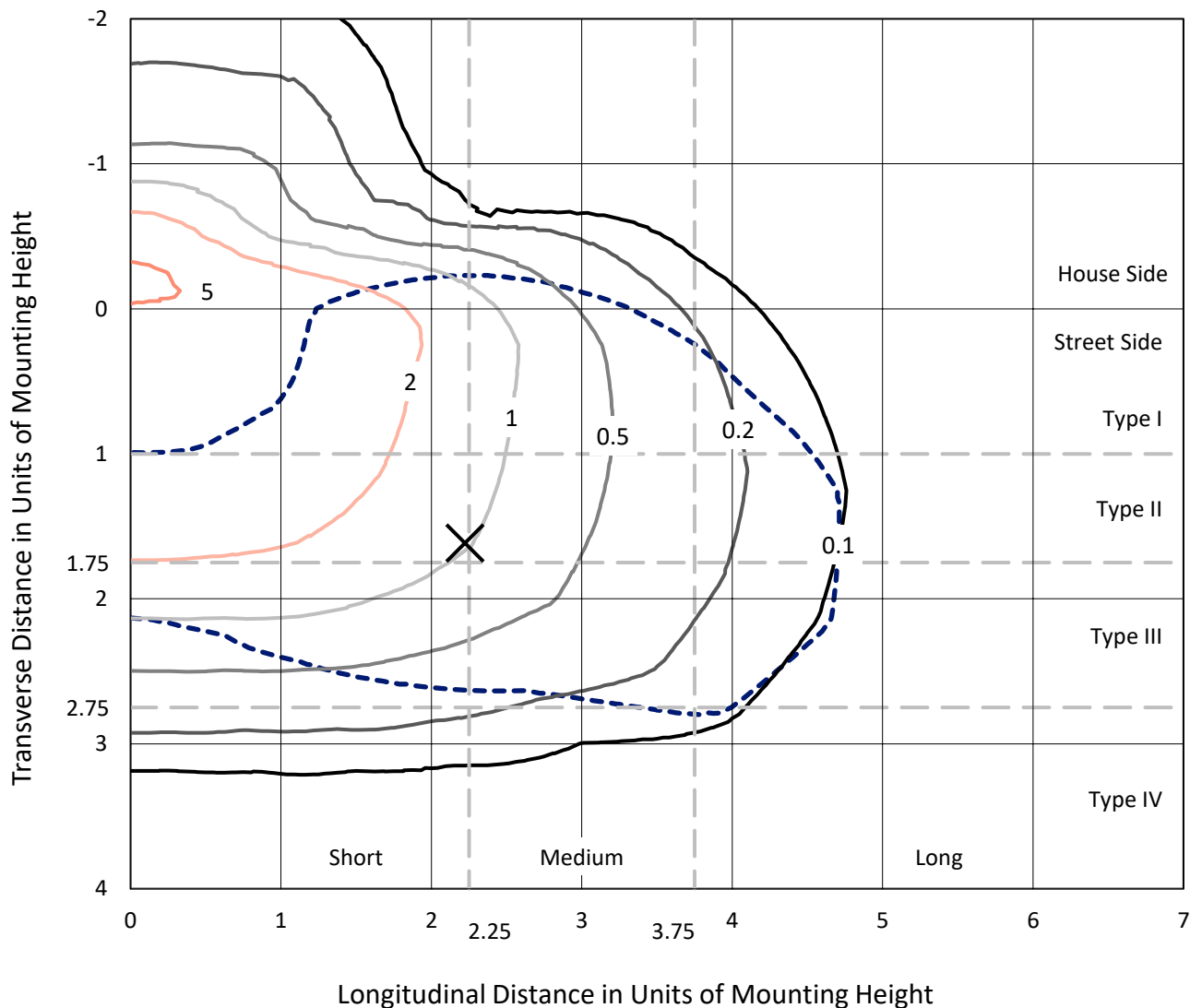
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

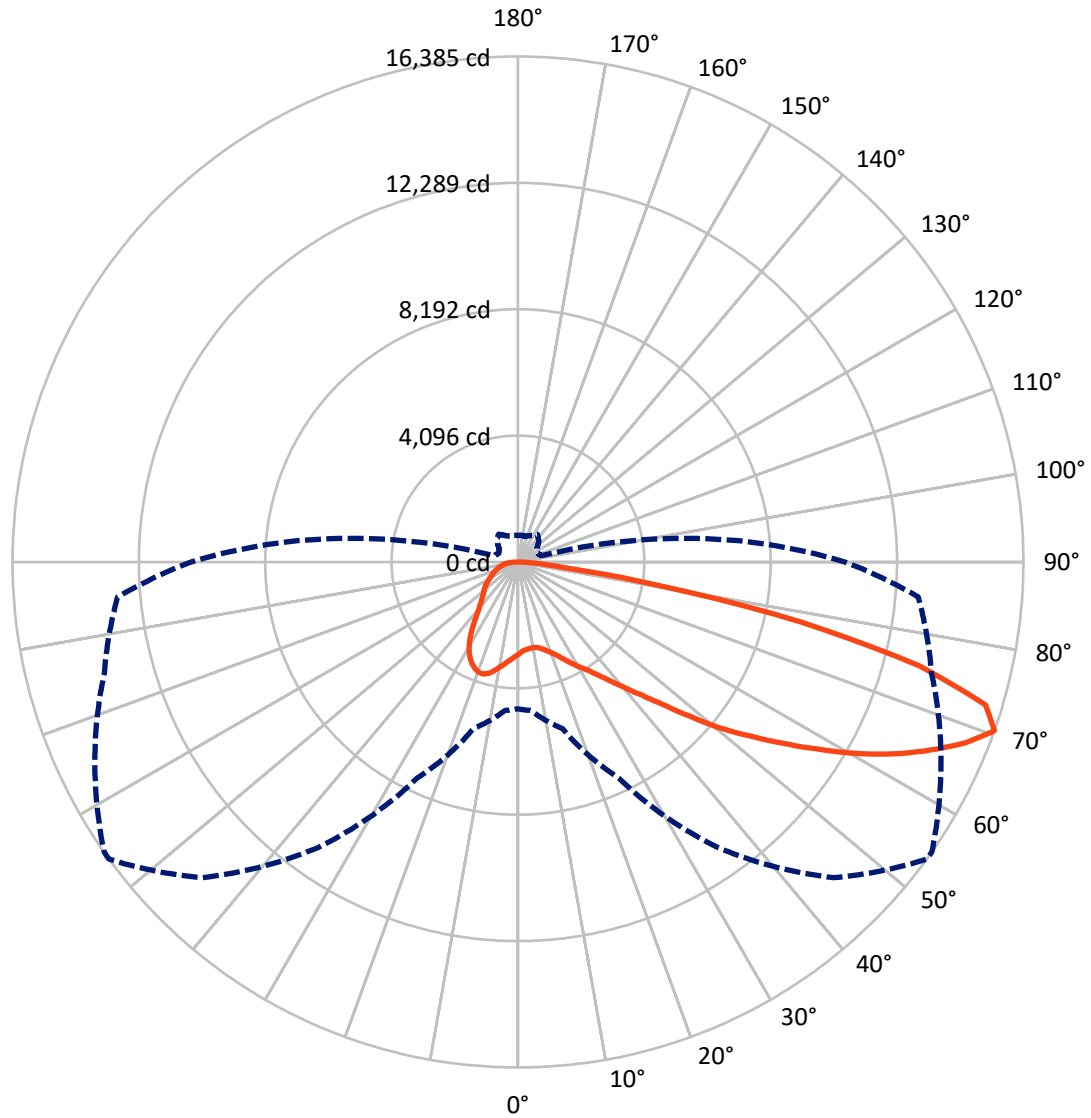
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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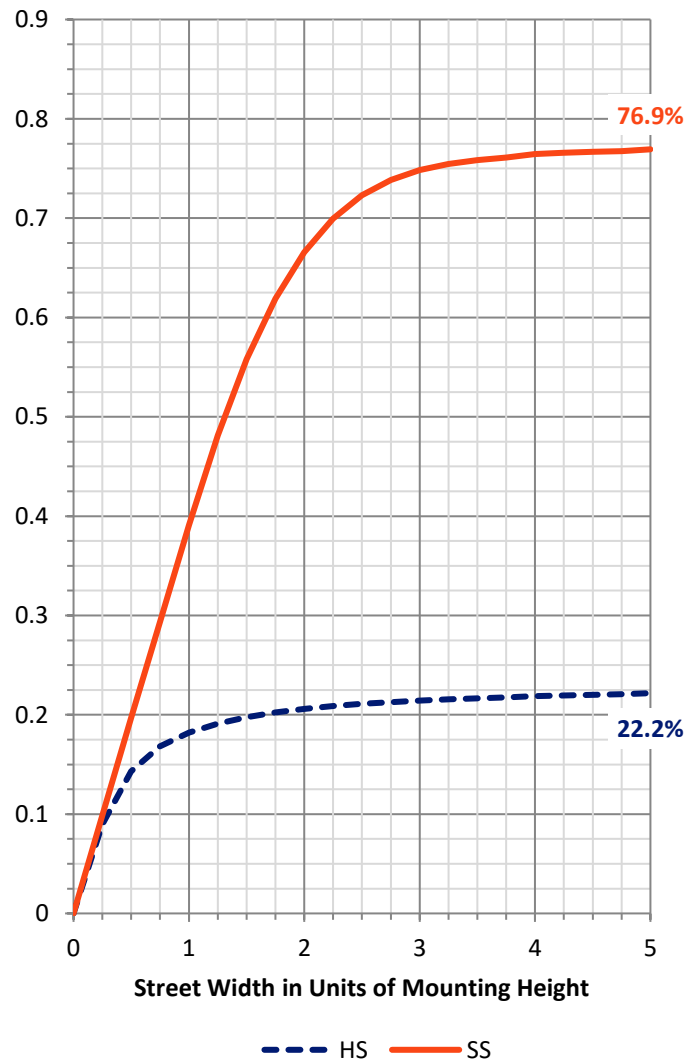
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6056.2	0.0	6056.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	20646.9	0.0	20646.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	26703.0	0.0	26703.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	1.1
10°-20°	936.8	3.5
20°-30°	1627.6	6.1
30°-40°	2378.5	8.9
40°-50°	3733.0	14.0
50°-60°	5740.5	21.5
60°-70°	7013.4	26.3
70°-80°	4348.4	16.3
80°-90°	631.7	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°	26703.0	100.0
0°-180°	26703.0	100.0



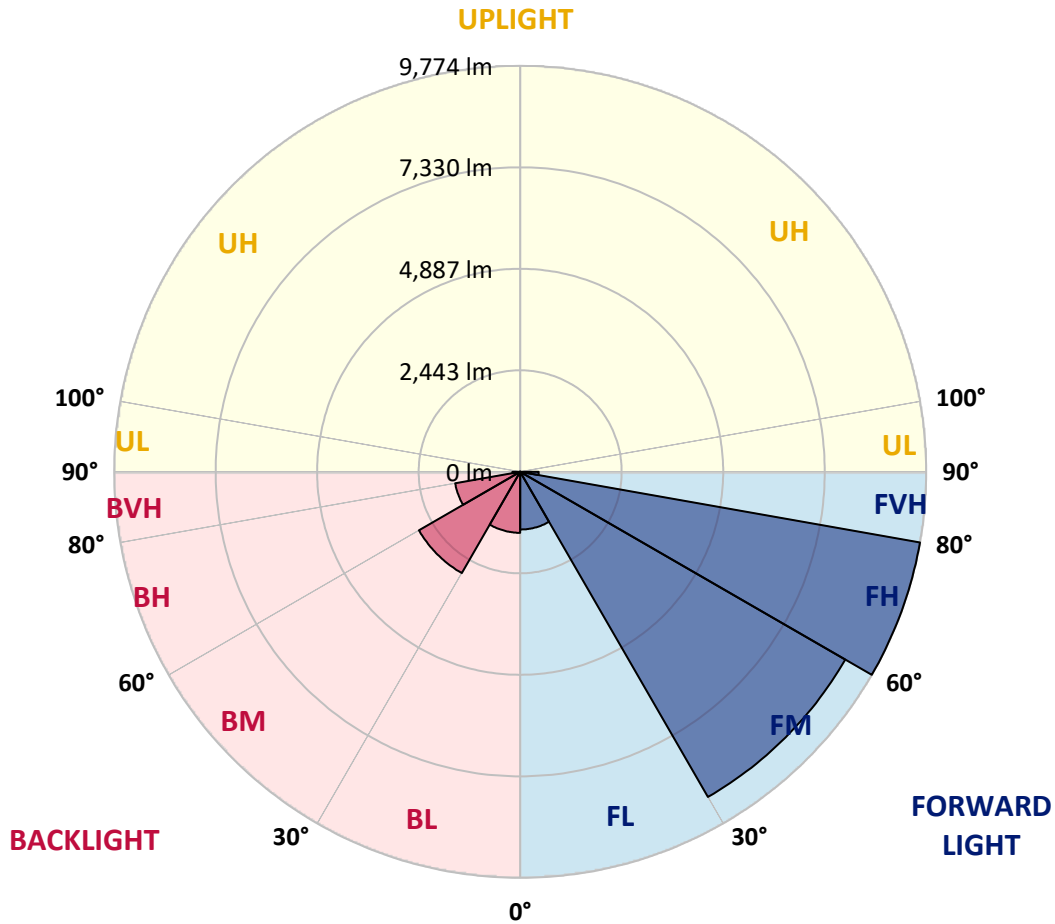
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.3	5.2			
FM (30°-60°)	9037.7	33.8			
FH (60°-80°)	9773.7	36.6			G4/12000
FVH (80°-90°)	446.1	1.7			G3/500
BL (0°-30°)	1468.2	5.5	B3/2500		
BM (30°-60°)	2814.2	10.5	B3/5000		
BH (60°-80°)	1588.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	185.6	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°	2987.5	2987.5	2987.5	2987.5	2987.5	2987.5	2987.5	2987.5	2987.5	2987.5	2987.5
2.5°	2870.2	2860.4	2860.4	2875.1	2880.0	2894.6	2894.6	2899.5	2914.2	2938.6	2968.0
5°	2782.2	2777.3	2782.2	2801.7	2811.5	2840.8	2850.6	2855.5	2884.8	2924.0	2968.0
7.5°	2694.2	2689.3	2699.0	2728.4	2757.7	2801.7	2826.2	2831.1	2875.1	2928.9	2987.5
10°	2664.8	2659.9	2674.6	2699.0	2728.4	2777.3	2816.4	2821.3	2884.8	2948.4	3031.5
12.5°	2703.9	2699.0	2713.7	2738.2	2767.5	2801.7	2845.7	2850.6	2933.7	3016.9	3104.9
15°	2801.7	2801.7	2806.6	2821.3	2850.6	2880.0	2919.1	2924.0	3012.0	3109.8	3197.8
17.5°	2953.3	2943.5	2943.5	2938.6	2958.2	2972.9	3021.8	3026.6	3119.5	3207.6	3295.6
20°	3139.1	3134.2	3114.7	3090.2	3085.3	3095.1	3144.0	3148.9	3241.8	3315.1	3398.3
22.5°	3364.0	3368.9	3324.9	3271.1	3246.7	3261.3	3305.3	3310.2	3378.7	3442.3	3515.6
25°	3662.3	3647.6	3584.1	3505.8	3456.9	3456.9	3500.9	3500.9	3564.5	3603.6	3652.5
27.5°	3945.9	3916.5	3857.9	3745.4	3667.2	3681.8	3725.9	3725.9	3784.5	3799.2	3823.6
30°	4253.9	4224.6	4151.2	4009.4	3906.8	3897.0	3950.8	3945.9	4024.1	4019.2	3999.7
32.5°	4630.4	4615.8	4493.5	4312.6	4175.7	4141.5	4190.4	4195.2	4244.1	4229.5	4165.9
35°	5158.5	5153.6	5041.1	4723.3	4542.4	4478.8	4508.2	4508.2	4542.4	4503.3	4395.7
37.5°	5823.5	5833.3	5735.5	5266.1	5011.8	4904.2	4909.1	4904.2	4914.0	4870.0	4757.6
40°	6488.5	6512.9	6508.0	5940.8	5618.1	5432.3	5363.9	5354.1	5378.5	5359.0	5251.4
42.5°	7363.7	7422.4	7285.5	6772.1	6410.2	6097.3	5911.5	5887.0	5940.8	5965.3	5862.6
45°	8273.1	8253.6	8038.5	7666.8	7339.2	6938.3	6586.2	6547.1	6586.2	6659.6	6552.0
47.5°	8747.4	8732.8	8679.0	8493.2	8444.3	7984.7	7451.7	7417.5	7344.1	7446.8	7319.7
50°	9529.8	9544.4	9324.4	9304.8	9510.2	9256.0	8429.6	8351.4	8219.4	8302.5	8194.9
52.5°	10097.0	10033.4	9896.5	10067.6	10708.2	10571.2	9348.9	9314.6	9192.4	9172.8	9123.9
55°	10326.8	10326.8	10351.2	10747.3	11661.6	11480.7	10346.3	10380.6	10214.3	10077.4	10141.0
57.5°	10395.2	10424.6	10634.8	11290.0	12781.3	12189.7	11446.5	11495.4	11255.8	10982.0	11182.4
60°	10057.8	10145.9	10649.5	11598.1	13412.1	12942.7	12605.3	12620.0	12272.8	11871.9	12223.9
62.5°	9192.4	9300.0	10199.6	11725.2	13309.4	13715.2	13700.6	13734.8	13260.5	12761.8	13201.8
65°	8131.4	8238.9	9197.3	11368.2	13231.2	14267.8	14702.9	14795.8	14184.6	13514.8	13813.0
67.5°	6571.6	6713.4	7622.8	10165.4	12849.8	14722.5	15641.7	15739.5	14898.5	13905.9	13759.2
70°	4762.4	4830.9	5593.7	7725.5	11294.9	14473.1	16384.9	16380.1	15133.2	13876.6	13025.8
72.5°	2293.2	2347.0	3007.1	4796.7	8077.6	12282.6	15847.1	15940.0	14810.5	13451.2	11348.7
75°	943.7	997.5	1217.5	2024.3	4239.3	8116.7	13431.6	13651.7	13451.2	12072.3	8879.5
77.5°	586.7	606.3	713.9	1046.4	1936.3	3789.4	9402.6	9700.9	10659.3	9671.6	5862.6
80°	440.1	454.7	533.0	733.4	1222.4	1398.4	4669.5	5046.0	6459.1	5549.7	2655.0
82.5°	366.7	371.6	425.4	533.0	831.2	801.9	1496.2	1667.3	3012.0	2117.2	914.3
85°	342.3	352.0	381.4	381.4	528.1	503.6	621.0	650.3	875.2	723.7	317.8
87.5°	176.0	166.2	337.4	298.3	273.8	244.5	264.0	283.6	327.6	347.2	141.8
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°	2987.5	2987.5	2987.5	2987.5	2987.5	2987.5	2987.5	2987.5	2987.5	2987.5	2987.5
2.5°	2977.7	2992.4	3016.9	3041.3	3070.6	3104.9	3124.4	3148.9	3168.4	3158.7	3153.8
5°	2992.4	3016.9	3070.6	3119.5	3178.2	3246.7	3290.7	3339.6	3378.7	3388.5	3373.8
7.5°	3016.9	3060.9	3134.2	3222.2	3300.5	3388.5	3456.9	3525.4	3574.3	3584.1	3584.1
10°	3075.5	3124.4	3222.2	3339.6	3432.5	3525.4	3603.6	3657.4	3701.4	3721.0	3721.0
12.5°	3158.7	3217.3	3334.7	3476.5	3579.2	3667.2	3711.2	3735.6	3755.2	3774.7	3779.6
15°	3256.5	3320.0	3461.8	3613.4	3721.0	3765.0	3765.0	3760.1	3760.1	3769.9	3779.6
17.5°	3354.2	3422.7	3569.4	3730.7	3799.2	3774.7	3740.5	3725.9	3716.1	3711.2	3725.9
20°	3456.9	3525.4	3672.1	3823.6	3804.1	3701.4	3652.5	3618.3	3588.9	3574.3	3593.8
22.5°	3569.4	3632.9	3784.5	3887.2	3740.5	3584.1	3491.2	3437.4	3388.5	3359.1	3378.7
25°	3701.4	3765.0	3911.7	3906.8	3628.1	3408.0	3261.3	3173.3	3119.5	3090.2	3090.2
27.5°	3857.9	3911.7	4053.5	3857.9	3471.6	3173.3	2958.2	2875.1	2860.4	2835.9	2835.9
30°	4019.2	4063.2	4185.5	3745.4	3256.5	2865.3	2630.6	2591.5	2596.4	2571.9	2576.8
32.5°	4185.5	4229.5	4263.7	3579.2	2977.7	2518.1	2361.7	2332.3	2327.4	2307.9	2288.3
35°	4420.2	4483.7	4273.5	3354.2	2640.4	2229.6	2117.2	2087.8	2058.5	1990.1	1990.1
37.5°	4777.1	4845.6	4249.0	3075.5	2293.2	2004.7	1902.0	1862.9	1814.0	1745.6	1721.1
40°	5266.1	5266.1	4195.2	2762.6	2014.5	1823.8	1726.0	1677.1	1623.3	1554.9	1540.2
42.5°	5843.0	5706.1	4112.1	2444.8	1809.1	1701.6	1613.6	1559.8	1496.2	1418.0	1408.2
45°	6517.8	6146.2	3994.8	2161.2	1657.6	1628.2	1574.4	1481.5	1374.0	1290.8	1276.2
47.5°	7173.0	6542.2	3882.3	1960.7	1530.4	1598.9	1554.9	1398.4	1251.7	1134.4	1119.7
50°	7891.8	6894.3	3750.3	1794.5	1432.6	1579.3	1530.4	1276.2	1114.8	1031.7	1021.9
52.5°	8610.5	7251.2	3608.5	1618.4	1349.5	1540.2	1471.8	1188.2	1109.9	997.5	982.8
55°	9368.4	7666.8	3442.3	1422.9	1251.7	1462.0	1393.5	1183.3	1144.2	997.5	963.2
57.5°	10106.7	8126.5	3173.3	1232.2	1144.2	1344.6	1364.2	1153.9	1070.8	987.7	948.6
60°	10923.3	8615.4	2728.4	1070.8	1051.3	1246.8	1325.1	1090.4	987.7	958.4	938.8
62.5°	11578.5	9055.5	2131.9	958.4	973.0	1168.6	1276.2	1051.3	953.5	929.0	924.1
65°	11862.1	9065.3	1530.4	860.6	894.8	1095.3	1227.3	1017.0	924.1	914.3	909.5
67.5°	11563.8	8566.5	1075.7	767.7	811.7	1026.8	1163.7	982.8	894.8	899.7	889.9
70°	10600.6	7515.3	787.2	679.7	733.4	953.5	1095.3	938.8	860.6	870.3	855.7
72.5°	8869.7	5857.7	630.8	606.3	669.9	875.2	1026.8	889.9	806.8	811.7	782.3
75°	6552.0	3882.3	528.1	542.7	596.5	801.9	938.8	826.3	748.1	728.5	709.0
77.5°	3897.0	1994.9	435.2	474.3	533.0	713.9	841.0	748.1	684.5	650.3	635.6
80°	1608.7	806.8	356.9	400.9	464.5	635.6	743.2	655.2	611.2	577.0	557.4
82.5°	640.5	396.1	283.6	327.6	391.2	552.5	650.3	577.0	533.0	508.5	454.7
85°	244.5	195.6	190.7	229.8	293.4	425.4	537.9	484.1	449.8	386.3	371.6
87.5°	97.8	88.0	88.0	112.5	166.2	268.9	386.3	337.4	352.0	278.7	283.6
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)