

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: P237077

Luminaire Tested: **ARCH-L-AF72-240-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237077
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-AF72-240-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26699.7 lumens
Efficiency: N/A
Efficacy: 110.3 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

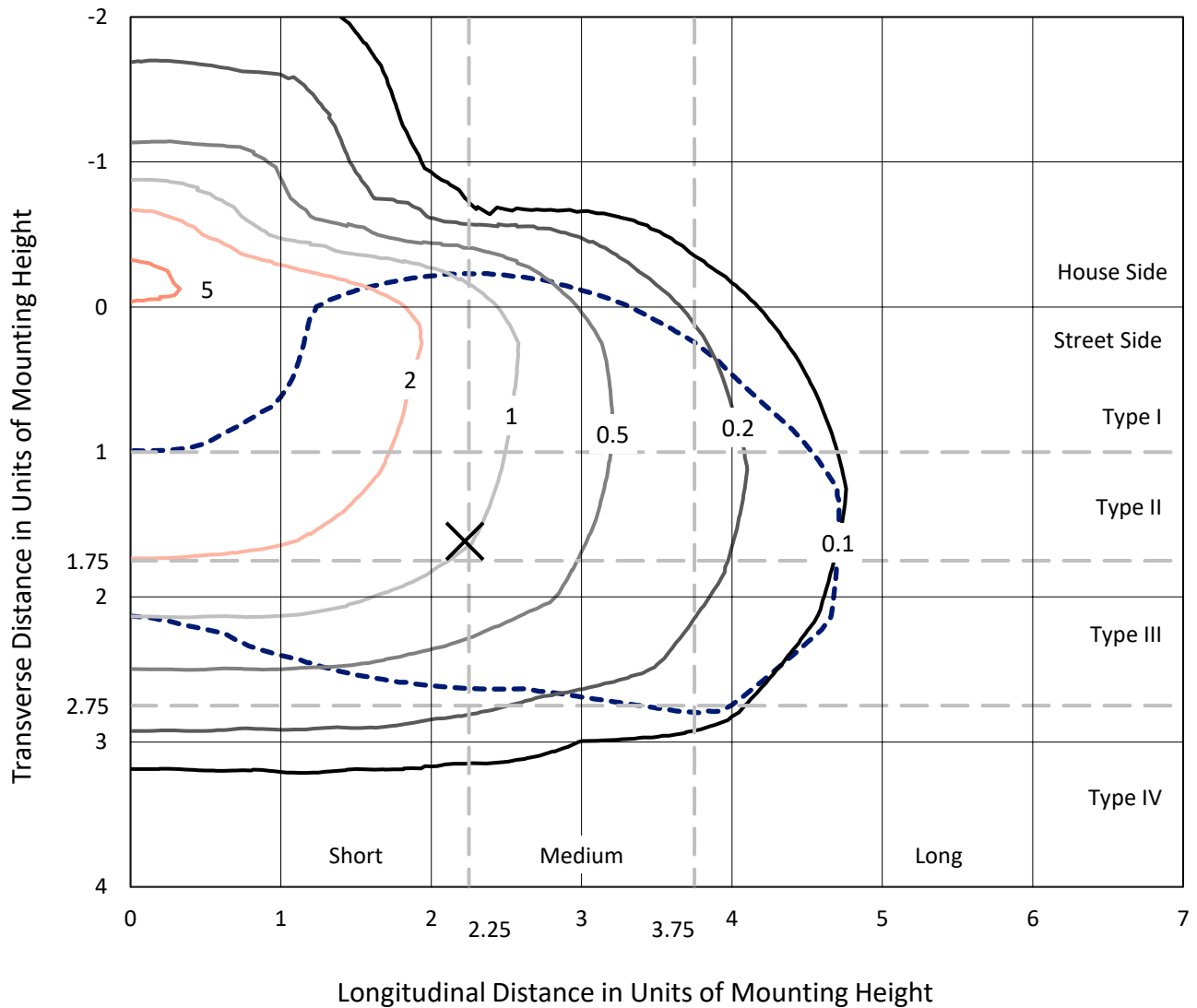
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

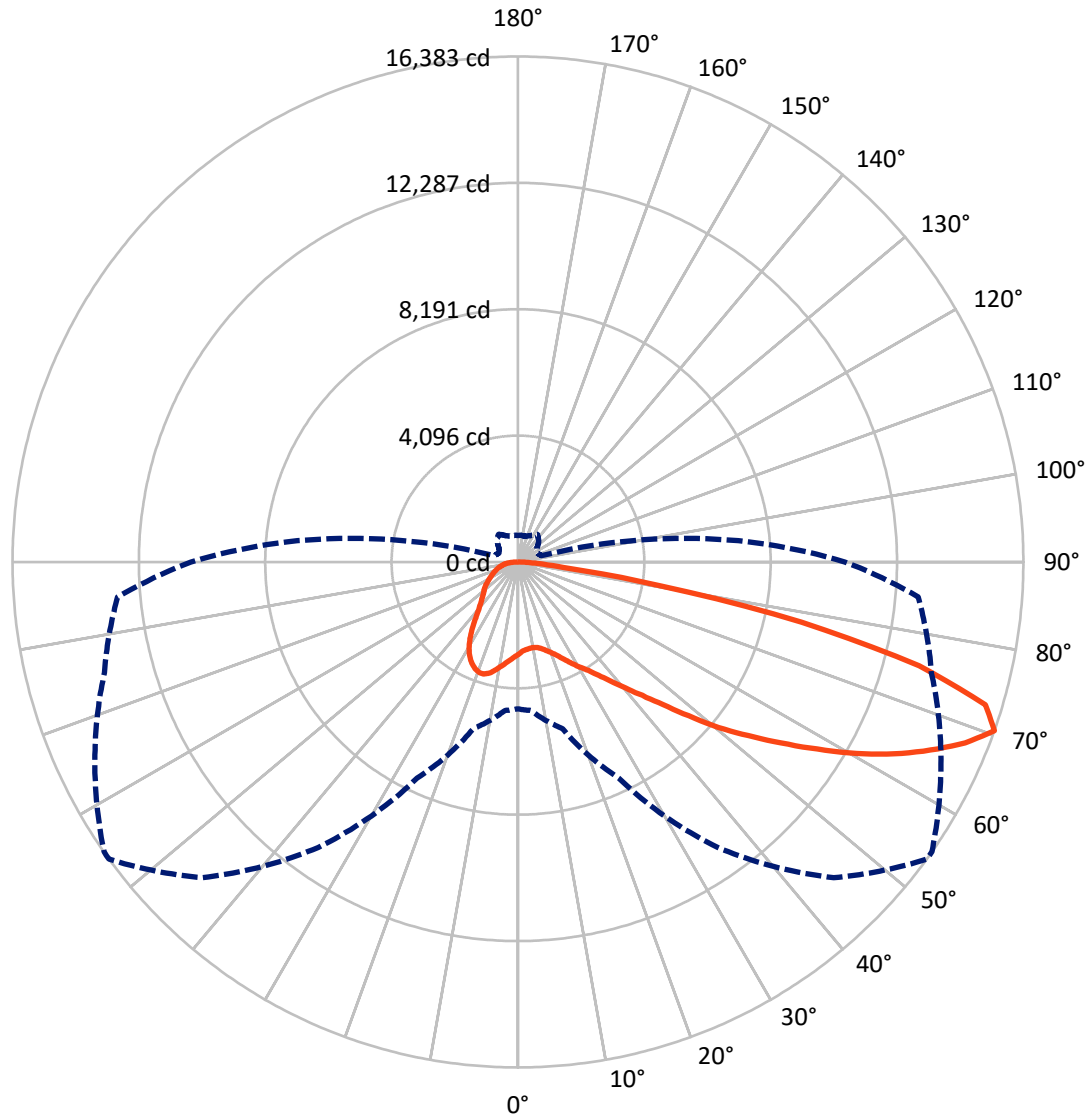
✕ Max cd
 - - - 1/2 Max cd



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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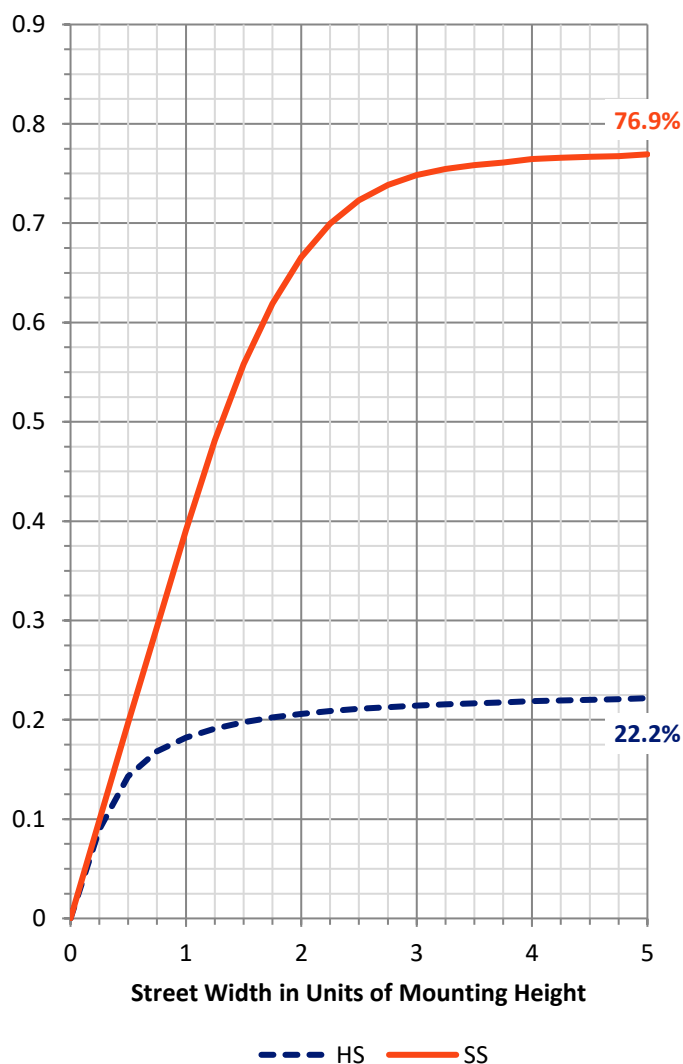
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6055.4	0.0	6055.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	20644.3	0.0	20644.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	26699.7	0.0	26699.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.1	1.1
10°-20°	936.7	3.5
20°-30°	1627.4	6.1
30°-40°	2378.2	8.9
40°-50°	3732.5	14.0
50°-60°	5739.7	21.5
60°-70°	7012.6	26.3
70°-80°	4347.8	16.3
80°-90°	631.6	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°	26699.7	100.0
0°-180°	26699.7	100.0

Coefficient of Utilization



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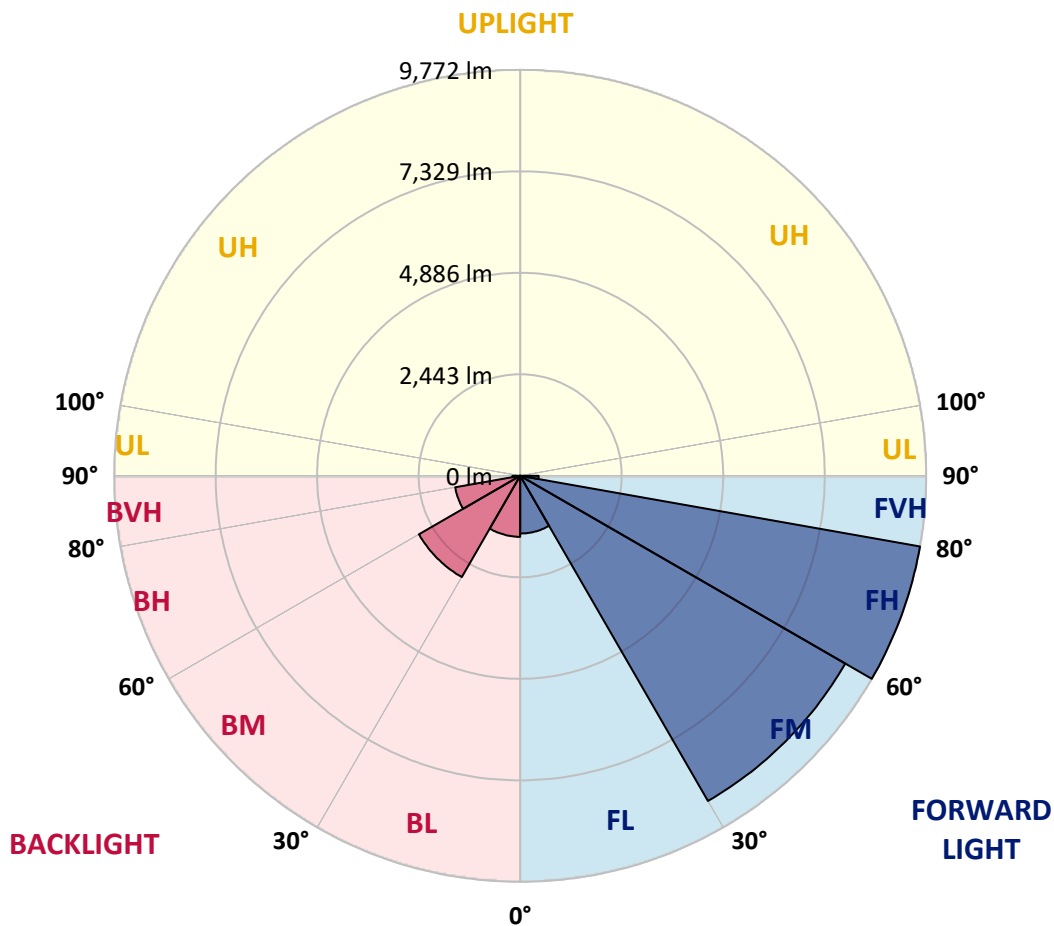
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.2	5.2			
FM (30°-60°)	9036.6	33.8			
FH (60°-80°)	9772.5	36.6			G4/12000
FVH (80°-90°)	446.0	1.7			G3/500
BL (0°-30°)	1468.1	5.5	B3/2500		
BM (30°-60°)	2813.8	10.5	B3/5000		
BH (60°-80°)	1587.9	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°	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1
2.5°	2869.8	2860.1	2860.1	2874.7	2879.6	2894.3	2894.3	2899.2	2913.8	2938.3	2967.6
5°	2781.8	2777.0	2781.8	2801.4	2811.1	2840.5	2850.2	2855.2	2884.5	2923.6	2967.6
7.5°	2693.8	2689.0	2698.7	2728.1	2757.3	2801.4	2825.8	2830.7	2874.7	2928.4	2987.1
10°	2664.5	2659.6	2674.2	2698.7	2728.1	2777.0	2816.0	2821.0	2884.5	2948.1	3031.2
12.5°	2703.6	2698.7	2713.4	2737.8	2767.1	2801.4	2845.3	2850.2	2933.4	3016.5	3104.5
15°	2801.4	2801.4	2806.3	2821.0	2850.2	2879.6	2918.8	2923.6	3011.6	3109.4	3197.4
17.5°	2953.0	2943.1	2943.1	2938.3	2957.8	2972.5	3021.3	3026.3	3119.2	3207.2	3295.2
20°	3138.7	3133.8	3114.2	3089.9	3084.9	3094.7	3143.6	3148.6	3241.4	3314.7	3397.9
22.5°	3363.6	3368.5	3324.5	3270.6	3246.3	3261.0	3305.0	3309.8	3378.3	3441.7	3515.2
25°	3661.9	3647.2	3583.6	3505.4	3456.5	3456.5	3500.4	3500.4	3564.0	3603.2	3652.1
27.5°	3945.4	3916.1	3857.4	3745.0	3666.7	3681.4	3725.4	3725.4	3784.0	3798.7	3823.2
30°	4253.4	4224.1	4150.8	4008.9	3906.2	3896.5	3950.3	3945.4	4023.6	4018.8	3999.2
32.5°	4629.9	4615.2	4493.0	4312.0	4175.2	4140.9	4189.9	4194.7	4243.6	4229.0	4165.4
35°	5157.8	5153.0	5040.5	4722.7	4541.8	4478.3	4507.6	4507.6	4541.8	4502.7	4395.2
37.5°	5822.8	5832.5	5734.8	5265.4	5011.1	4903.7	4908.5	4903.7	4913.4	4869.3	4756.9
40°	6487.7	6512.1	6507.2	5940.1	5617.4	5431.6	5363.2	5353.3	5377.8	5358.3	5250.8
42.5°	7362.8	7421.4	7284.6	6771.3	6409.4	6096.5	5910.7	5886.4	5940.1	5964.6	5861.9
45°	8272.1	8252.6	8037.4	7665.8	7338.3	6937.4	6585.4	6546.3	6585.4	6658.8	6551.1
47.5°	8746.3	8731.7	8677.9	8492.1	8443.2	7983.7	7450.8	7416.5	7343.2	7445.9	7318.7
50°	9528.6	9543.2	9323.2	9303.7	9509.1	9254.8	8428.6	8350.3	8218.4	8301.4	8193.9
52.5°	10095.7	10032.1	9895.3	10066.4	10706.9	10570.0	9347.6	9313.5	9191.2	9171.7	9122.8
55°	10325.4	10325.4	10349.9	10745.9	11660.1	11479.4	10345.0	10379.3	10213.0	10076.1	10139.7
57.5°	10394.0	10423.3	10633.4	11288.6	12779.7	12188.2	11445.0	11494.0	11254.4	10980.5	11181.0
60°	10056.6	10144.6	10648.2	11596.7	13410.4	12941.1	12603.7	12618.5	12271.4	11870.4	12222.4
62.5°	9191.2	9298.8	10198.4	11723.7	13307.8	13713.5	13698.8	13733.2	13258.8	12760.2	13200.1
65°	8130.3	8237.9	9196.2	11366.8	13229.5	14266.0	14701.2	14794.0	14182.8	13513.0	13811.4
67.5°	6570.8	6712.6	7621.9	10164.2	12848.3	14720.6	15639.8	15737.6	14896.6	13904.3	13757.5
70°	4761.8	4830.3	5593.0	7724.5	11293.5	14471.3	16382.9	16378.1	15131.4	13874.9	13024.1
72.5°	2293.0	2346.7	3006.7	4796.1	8076.6	12281.1	15845.1	15937.9	14808.7	13449.5	11347.2
75°	943.6	997.3	1217.3	2024.0	4238.7	8115.7	13429.9	13650.0	13449.5	12070.9	8878.4
77.5°	586.7	606.3	713.8	1046.2	1936.1	3788.9	9401.4	9699.7	10657.9	9670.3	5861.9
80°	440.0	454.6	532.8	733.3	1222.3	1398.2	4668.9	5045.4	6458.4	5548.9	2654.7
82.5°	366.7	371.6	425.3	532.8	831.1	801.8	1496.0	1667.2	3011.6	2116.9	914.3
85°	342.2	352.1	381.4	381.4	528.0	503.5	620.9	650.2	875.1	723.6	317.8
87.5°	176.0	166.2	337.4	298.3	273.8	244.4	264.0	283.5	327.6	347.1	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°	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1
2.5°	2977.5	2992.1	3016.5	3040.9	3070.3	3104.5	3124.0	3148.6	3168.1	3158.2	3153.3
5°	2992.1	3016.5	3070.3	3119.2	3177.8	3246.3	3290.3	3339.2	3378.3	3388.0	3373.4
7.5°	3016.5	3060.5	3133.8	3221.8	3300.0	3388.0	3456.5	3524.9	3573.9	3583.6	3583.6
10°	3075.2	3124.0	3221.8	3339.2	3432.1	3524.9	3603.2	3656.9	3700.9	3720.5	3720.5
12.5°	3158.2	3216.9	3334.3	3476.1	3578.7	3666.7	3710.8	3735.1	3754.7	3774.3	3779.2
15°	3256.0	3319.7	3461.4	3612.9	3720.5	3764.5	3764.5	3759.6	3759.6	3769.3	3779.2
17.5°	3353.8	3422.2	3569.0	3730.3	3798.7	3774.3	3740.1	3725.4	3715.6	3710.8	3725.4
20°	3456.5	3524.9	3671.6	3823.2	3803.7	3700.9	3652.1	3617.8	3588.5	3573.9	3593.4
22.5°	3569.0	3632.6	3784.0	3886.7	3740.1	3583.6	3490.8	3437.0	3388.0	3358.7	3378.3
25°	3700.9	3764.5	3911.2	3906.2	3627.6	3407.6	3261.0	3172.9	3119.2	3089.9	3089.9
27.5°	3857.4	3911.2	4053.0	3857.4	3471.1	3172.9	2957.8	2874.7	2860.1	2835.6	2835.6
30°	4018.8	4062.7	4184.9	3745.0	3256.0	2864.9	2630.3	2591.2	2596.0	2571.6	2576.5
32.5°	4184.9	4229.0	4263.2	3578.7	2977.5	2517.8	2361.4	2332.0	2327.1	2307.5	2288.0
35°	4419.6	4483.1	4272.9	3353.8	2640.0	2229.3	2116.9	2087.6	2058.2	1989.8	1989.8
37.5°	4776.5	4845.0	4248.5	3075.2	2293.0	2004.5	1901.7	1862.7	1813.8	1745.3	1721.0
40°	5265.4	5265.4	4194.7	2762.3	2014.3	1823.5	1725.7	1676.9	1623.1	1554.6	1540.0
42.5°	5842.3	5705.4	4111.7	2444.4	1808.9	1701.3	1613.3	1559.5	1496.0	1417.7	1408.1
45°	6517.0	6145.4	3994.3	2160.9	1657.4	1628.1	1574.2	1481.3	1373.8	1290.7	1276.0
47.5°	7172.1	6541.5	3881.9	1960.4	1530.2	1598.7	1554.6	1398.2	1251.6	1134.2	1119.6
50°	7890.8	6893.3	3749.9	1794.2	1432.5	1579.2	1530.2	1276.0	1114.7	1031.5	1021.8
52.5°	8609.4	7250.3	3608.1	1618.2	1349.4	1540.0	1471.6	1187.9	1109.7	997.3	982.7
55°	9367.3	7665.8	3441.7	1422.7	1251.6	1461.8	1393.4	1183.2	1144.1	997.3	963.1
57.5°	10105.5	8125.5	3172.9	1232.0	1144.1	1344.4	1364.0	1153.8	1070.6	987.6	948.5
60°	10922.0	8614.3	2728.1	1070.6	1051.1	1246.6	1324.9	1090.2	987.6	958.2	938.6
62.5°	11577.1	9054.4	2131.5	958.2	973.0	1168.4	1276.0	1051.1	953.4	928.9	924.0
65°	11860.6	9064.1	1530.2	860.4	894.8	1095.1	1227.1	1016.8	924.0	914.3	909.4
67.5°	11562.4	8565.5	1075.5	767.5	811.6	1026.7	1163.6	982.7	894.8	899.5	889.8
70°	10599.2	7514.3	787.1	679.6	733.3	953.4	1095.1	938.6	860.4	870.2	855.6
72.5°	8868.6	5857.0	630.7	606.3	669.8	875.1	1026.7	889.8	806.7	811.6	782.2
75°	6551.1	3881.9	528.0	542.7	596.4	801.8	938.6	826.2	748.0	728.4	708.9
77.5°	3896.5	1994.7	435.1	474.1	532.8	713.8	840.9	748.0	684.4	650.2	635.6
80°	1608.6	806.7	356.8	400.9	464.5	635.6	743.1	655.1	611.1	576.9	557.3
82.5°	640.5	395.9	283.5	327.6	391.1	552.5	650.2	576.9	532.8	508.5	454.6
85°	244.4	195.6	190.6	229.8	293.4	425.3	537.8	484.0	449.8	386.2	371.6
87.5°	97.8	88.0	88.0	112.4	166.2	268.9	386.2	337.4	352.1	278.7	283.5
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)