

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: P237080

Luminaire Tested: **ARCH-L-AF72-270-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237080
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-AF72-270-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28726.5 lumens
Efficiency: N/A
Efficacy: 105.2 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

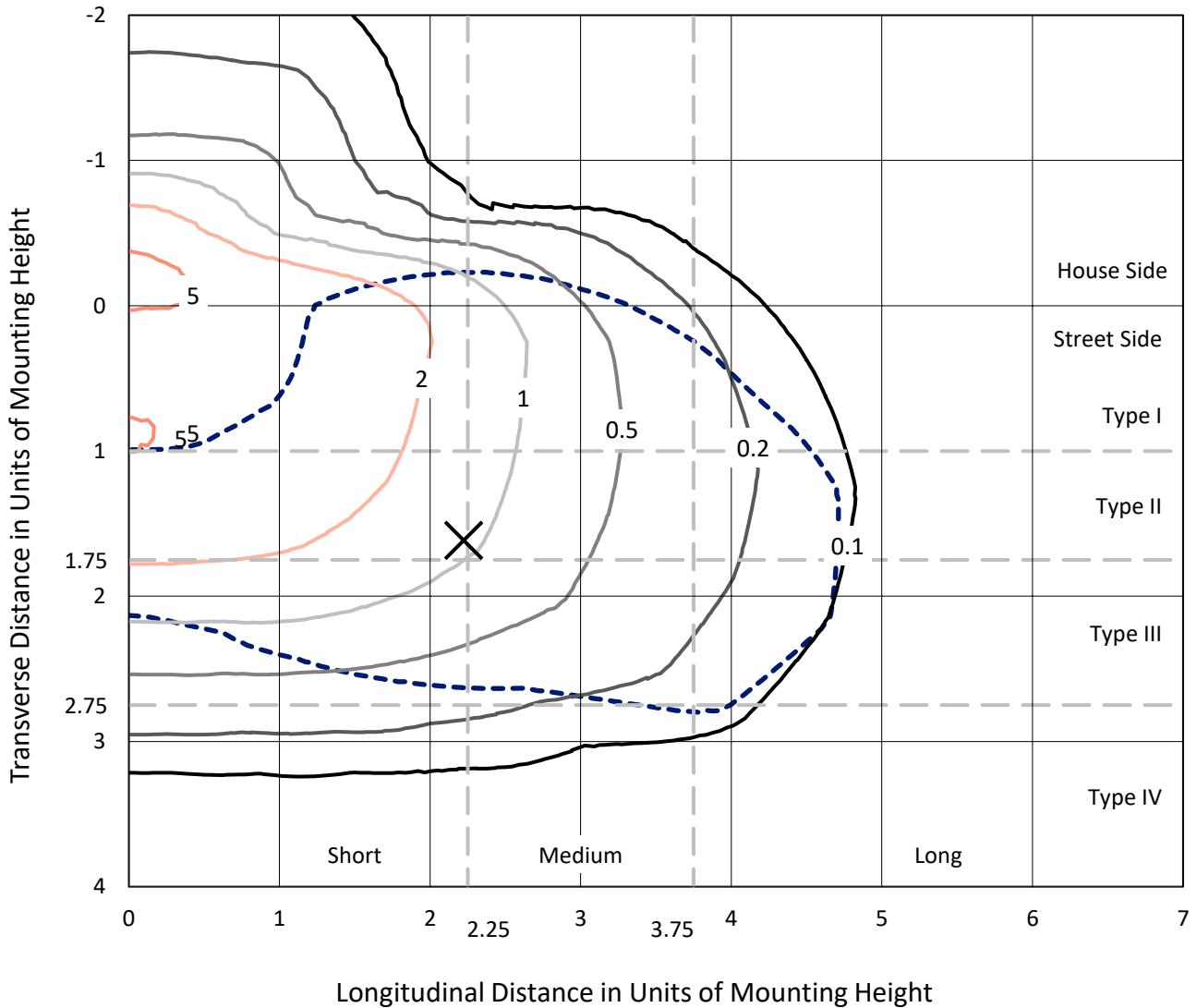
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: ARCH-L-AF72-270-D-U-T3-7030

Iso-Footcandle Lines of Horizontal Illumination

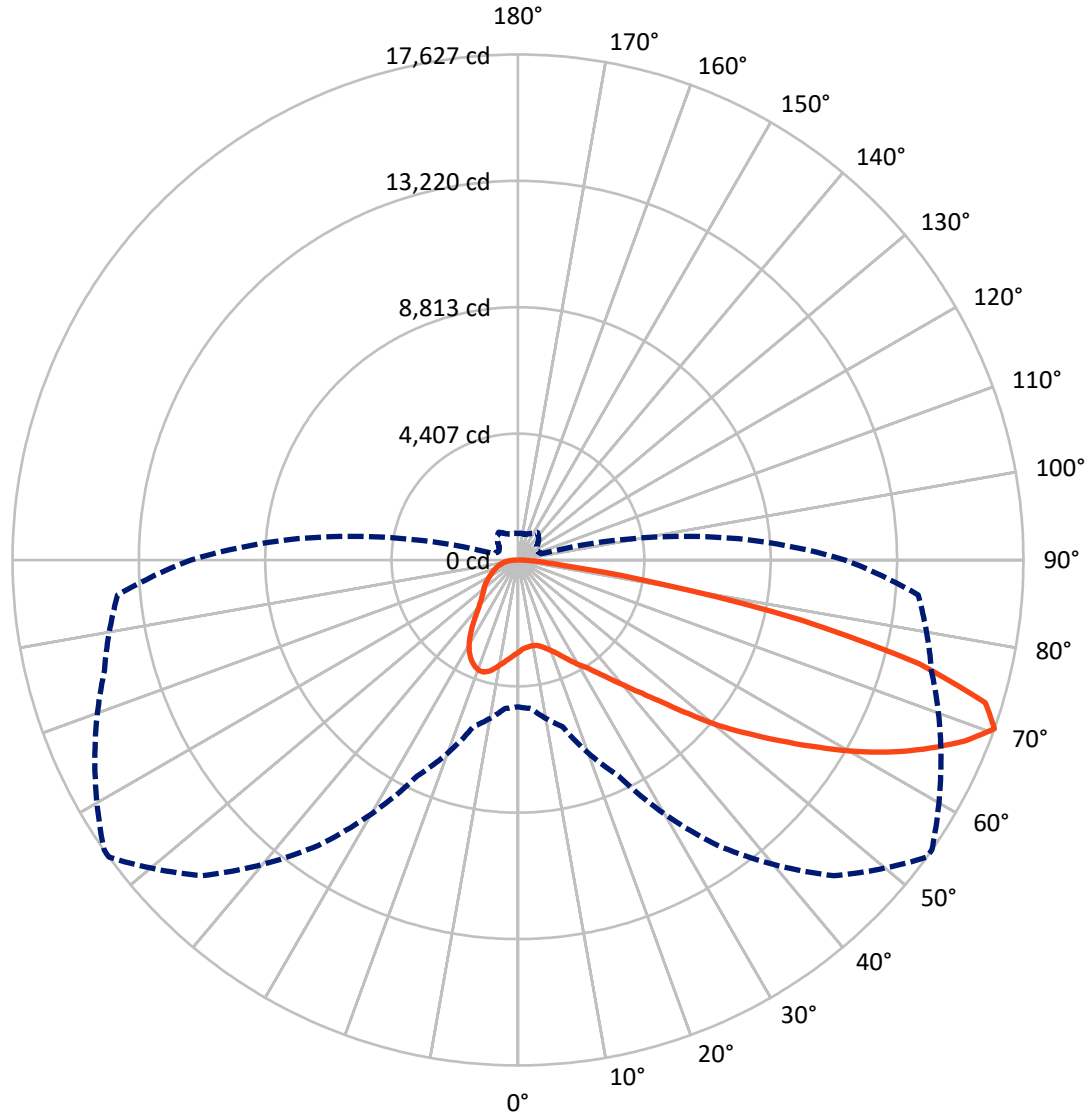
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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CATALOG NUMBER: ARCH-L-AF72-270-D-U-T3-7030

Luminous Intensity Polar Plot



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

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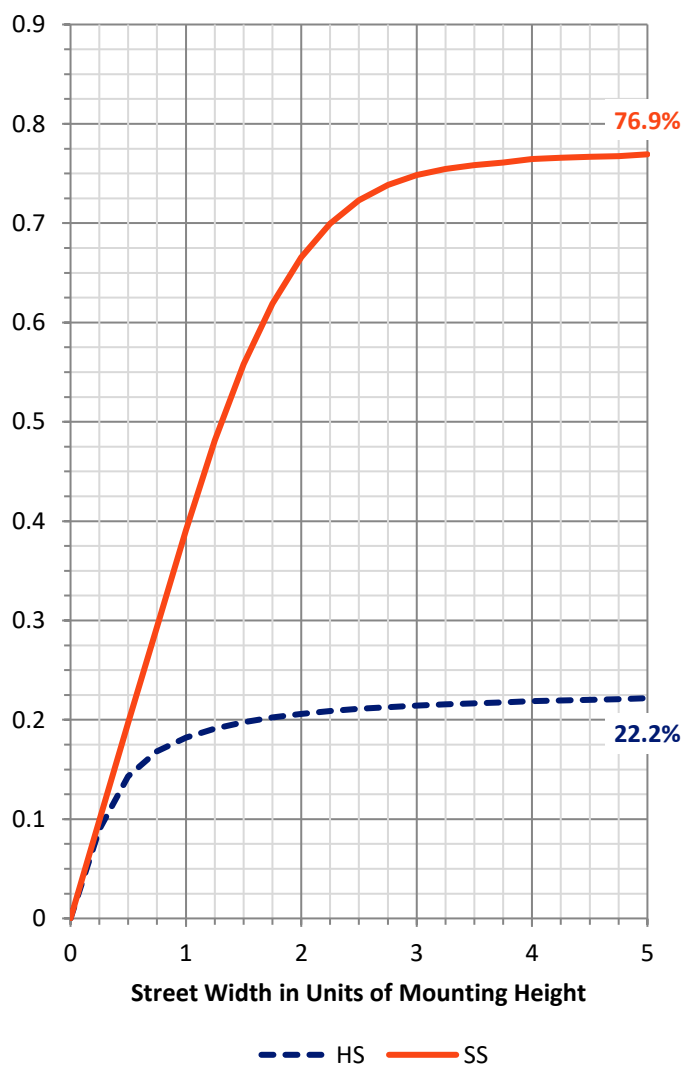
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6515.1	0.0	6515.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	22211.4	0.0	22211.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	28726.5	0.0	28726.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.4	1.1
10°-20°	1007.8	3.5
20°-30°	1750.9	6.1
30°-40°	2558.7	8.9
40°-50°	4015.8	14.0
50°-60°	6175.4	21.5
60°-70°	7544.9	26.3
70°-80°	4677.9	16.3
80°-90°	679.6	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°	28726.5	100.0
0°-180°	28726.5	100.0

Coefficient of Utilization

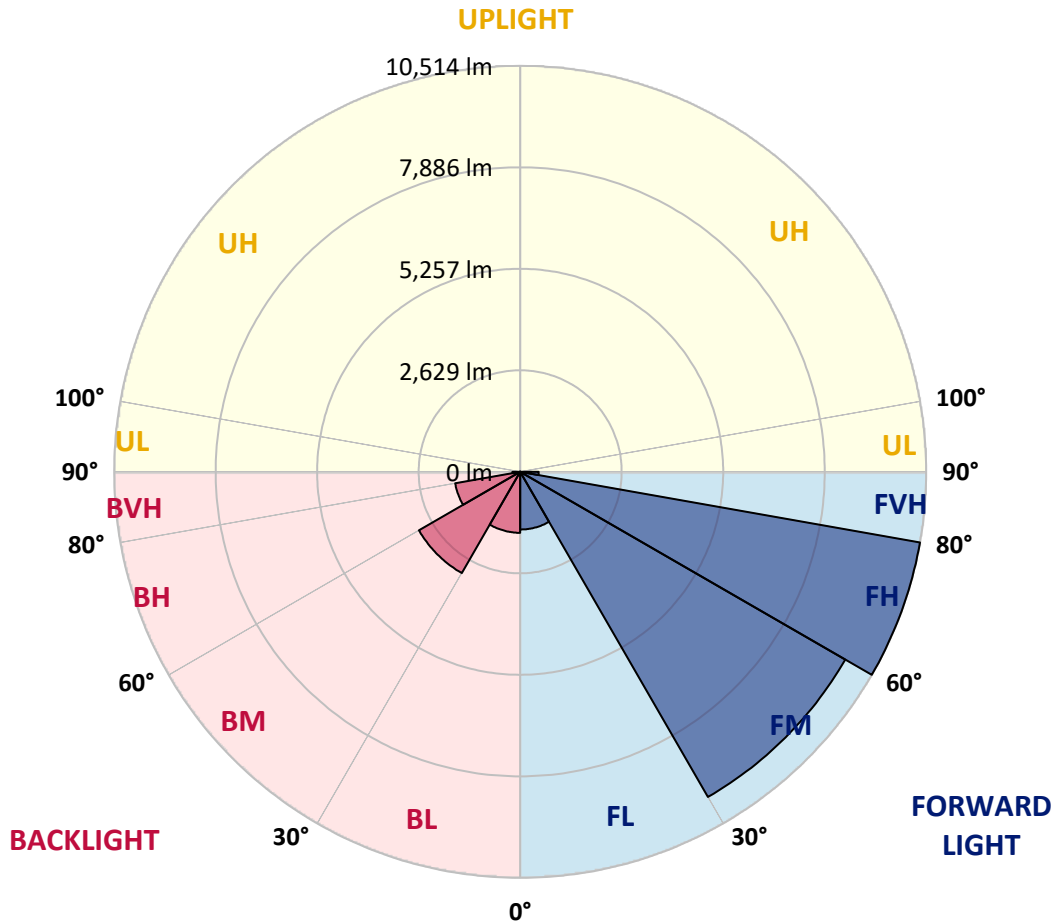


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1494.6	5.2			
FM (30°-60°)	9722.6	33.8			
FH (60°-80°)	10514.3	36.6			G4/12000
FVH (80°-90°)	479.9	1.7			G3/500
BL (0°-30°)	1579.5	5.5	B3/2500		
BM (30°-60°)	3027.4	10.5	B3/5000		
BH (60°-80°)	1708.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	199.7	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°	3213.9	3213.9	3213.9	3213.9	3213.9	3213.9	3213.9	3213.9	3213.9	3213.9	3213.9
2.5°	3087.6	3077.2	3077.2	3092.9	3098.1	3114.0	3114.0	3119.3	3134.9	3161.3	3192.9
5°	2992.9	2987.7	2992.9	3014.0	3024.6	3056.1	3066.6	3072.0	3103.4	3145.6	3192.9
7.5°	2898.3	2893.0	2903.6	2935.1	2966.7	3014.0	3040.3	3045.6	3092.9	3150.8	3213.9
10°	2866.8	2861.5	2877.3	2903.6	2935.1	2987.7	3029.8	3035.1	3103.4	3171.8	3261.3
12.5°	2908.8	2903.6	2919.3	2945.6	2977.2	3014.0	3061.3	3066.6	3156.1	3245.4	3340.2
15°	3014.0	3014.0	3019.3	3035.1	3066.6	3098.1	3140.2	3145.6	3240.2	3345.4	3440.1
17.5°	3177.0	3166.6	3166.6	3161.3	3182.4	3198.1	3250.7	3256.0	3355.9	3450.6	3545.3
20°	3376.9	3371.7	3350.7	3324.3	3319.1	3329.6	3382.2	3387.5	3487.4	3566.3	3655.7
22.5°	3618.8	3624.2	3576.8	3519.0	3492.7	3508.5	3555.9	3561.1	3634.7	3703.2	3782.0
25°	3939.8	3924.0	3855.6	3771.5	3718.8	3718.8	3766.1	3766.1	3834.6	3876.6	3929.3
27.5°	4244.8	4213.4	4150.2	4029.3	3945.1	3960.8	4008.1	4008.1	4071.3	4087.1	4113.4
30°	4576.4	4544.7	4465.8	4313.2	4202.7	4192.3	4250.1	4244.8	4329.1	4323.8	4302.7
32.5°	4981.3	4965.5	4834.0	4639.3	4492.0	4455.3	4507.9	4513.2	4565.7	4550.0	4481.6
35°	5549.4	5544.2	5423.2	5081.2	4886.6	4818.3	4849.8	4849.8	4886.6	4844.5	4728.8
37.5°	6264.7	6275.3	6170.1	5665.1	5391.6	5275.9	5281.1	5275.9	5286.4	5239.1	5118.0
40°	6980.1	7006.5	7001.2	6391.0	6043.7	5843.9	5770.3	5759.8	5786.1	5765.1	5649.4
42.5°	7921.8	7984.7	7837.5	7285.2	6896.0	6559.3	6359.4	6333.1	6391.0	6417.4	6306.9
45°	8900.0	8879.1	8647.6	8247.8	7895.4	7464.0	7085.4	7043.3	7085.4	7164.2	7048.6
47.5°	9410.3	9394.5	9336.6	9136.8	9084.2	8589.8	8016.4	7979.5	7900.6	8011.1	7874.4
50°	10251.9	10267.6	10031.0	10009.9	10230.8	9957.4	9068.4	8984.2	8842.3	8931.6	8815.9
52.5°	10862.1	10793.7	10646.4	10830.6	11519.5	11372.2	10057.4	10020.5	9888.9	9867.9	9815.3
55°	11109.3	11109.3	11135.6	11561.7	12545.2	12350.6	11130.4	11167.2	10988.3	10841.0	10909.4
57.5°	11182.9	11214.5	11440.6	12145.5	13749.8	13113.4	12313.8	12366.4	12108.6	11814.1	12029.8
60°	10820.0	10914.7	11456.5	12476.9	14428.4	13923.5	13560.5	13576.2	13202.8	12771.5	13150.2
62.5°	9888.9	10004.7	10972.6	12613.7	14318.0	14754.5	14738.7	14775.5	14265.3	13728.9	14202.2
65°	8747.6	8863.2	9894.2	12229.7	14233.7	15349.0	15817.0	15917.0	15259.4	14538.9	14859.7
67.5°	7069.5	7222.0	8200.5	10935.8	13823.5	15838.1	16827.0	16932.2	16027.5	14959.7	14801.9
70°	5123.2	5196.9	6017.6	8311.0	12150.8	15569.9	17626.6	17621.3	16279.9	14928.1	14012.8
72.5°	2467.0	2524.9	3234.9	5160.1	8689.6	13213.3	17047.9	17147.9	15932.7	14470.6	12208.6
75°	1015.2	1073.0	1309.8	2177.6	4560.5	8731.8	14449.4	14686.2	14470.6	12987.1	9552.3
77.5°	631.2	652.3	768.0	1125.7	2083.0	4076.6	10115.1	10436.0	11467.0	10404.4	6306.9
80°	473.4	489.2	573.4	789.0	1315.1	1504.4	5023.4	5428.4	6948.6	5970.2	2856.2
82.5°	394.5	399.8	457.6	573.4	894.2	862.6	1609.6	1793.7	3240.2	2277.6	983.7
85°	368.2	378.7	410.3	410.3	568.0	541.8	668.0	699.6	941.6	778.5	341.9
87.5°	189.3	178.8	363.0	320.9	294.6	263.0	284.1	305.1	352.5	373.4	152.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P237080

CATALOG NUMBER: ARCH-L-AF72-270-D-U-T3-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3213.9	3213.9	3213.9	3213.9	3213.9	3213.9	3213.9	3213.9	3213.9	3213.9	3213.9
2.5°	3203.4	3219.3	3245.4	3271.8	3303.4	3340.2	3361.2	3387.5	3408.6	3398.0	3392.7
5°	3219.3	3245.4	3303.4	3355.9	3419.0	3492.7	3540.0	3592.7	3634.7	3645.2	3629.5
7.5°	3245.4	3292.8	3371.7	3466.4	3550.6	3645.2	3718.8	3792.5	3845.2	3855.6	3855.6
10°	3308.6	3361.2	3466.4	3592.7	3692.5	3792.5	3876.6	3934.5	3981.9	4002.9	4002.9
12.5°	3398.0	3461.2	3587.4	3740.0	3850.4	3945.1	3992.5	4018.7	4039.8	4060.7	4066.1
15°	3503.2	3571.5	3724.1	3887.2	4002.9	4050.2	4050.2	4045.0	4045.0	4055.4	4066.1
17.5°	3608.4	3682.0	3839.8	4013.4	4087.1	4060.7	4023.9	4008.1	3997.7	3992.5	4008.1
20°	3718.8	3792.5	3950.3	4113.4	4092.3	3981.9	3929.3	3892.5	3860.9	3845.2	3866.1
22.5°	3839.8	3908.2	4071.3	4181.8	4023.9	3855.6	3755.7	3697.9	3645.2	3613.6	3634.7
25°	3981.9	4050.2	4208.0	4202.7	3903.0	3666.3	3508.5	3413.8	3355.9	3324.3	3324.3
27.5°	4150.2	4208.0	4360.6	4150.2	3734.7	3413.8	3182.4	3092.9	3077.2	3050.8	3050.8
30°	4323.8	4371.1	4502.6	4029.3	3503.2	3082.4	2830.0	2787.9	2793.1	2766.8	2772.0
32.5°	4502.6	4550.0	4586.8	3850.4	3203.4	2709.0	2540.6	2509.0	2503.7	2482.8	2461.7
35°	4755.1	4823.5	4597.3	3608.4	2840.4	2398.6	2277.6	2246.1	2214.4	2140.8	2140.8
37.5°	5139.1	5212.8	4571.0	3308.6	2467.0	2156.7	2046.2	2004.2	1951.5	1877.8	1851.5
40°	5665.1	5665.1	4513.2	2972.0	2167.1	1962.0	1856.9	1804.2	1746.4	1672.8	1656.9
42.5°	6285.8	6138.5	4423.7	2630.1	1946.2	1830.5	1735.8	1678.0	1609.6	1525.5	1514.9
45°	7011.7	6612.0	4297.5	2324.9	1783.2	1751.7	1693.7	1593.8	1478.1	1388.6	1372.9
47.5°	7716.6	7037.9	4176.6	2109.2	1646.4	1720.1	1672.8	1504.4	1346.6	1220.3	1204.6
50°	8489.8	7416.7	4034.5	1930.5	1541.2	1699.0	1646.4	1372.9	1199.3	1109.8	1099.3
52.5°	9263.0	7800.7	3882.0	1741.0	1451.7	1656.9	1583.2	1278.3	1193.9	1073.0	1057.3
55°	10078.3	8247.8	3703.2	1530.7	1346.6	1572.8	1499.1	1273.0	1230.8	1073.0	1036.3
57.5°	10872.6	8742.3	3413.8	1325.6	1230.8	1446.5	1467.6	1241.4	1151.9	1062.5	1020.5
60°	11751.1	9268.3	2935.1	1151.9	1131.0	1341.2	1425.5	1173.0	1062.5	1031.0	1009.9
62.5°	12455.9	9741.7	2293.4	1031.0	1046.7	1257.1	1372.9	1131.0	1025.7	999.4	994.1
65°	12760.9	9752.2	1646.4	925.8	962.6	1178.3	1320.3	1094.1	994.1	983.7	978.4
67.5°	12440.0	9215.7	1157.2	825.8	873.2	1104.6	1251.9	1057.3	962.6	967.8	957.3
70°	11403.8	8084.7	846.9	731.2	789.0	1025.7	1178.3	1009.9	925.8	936.3	920.5
72.5°	9541.8	6301.5	678.5	652.3	720.7	941.6	1104.6	957.3	867.9	873.2	841.7
75°	7048.6	4176.6	568.0	583.9	641.7	862.6	1009.9	889.0	804.8	783.7	762.7
77.5°	4192.3	2146.1	468.1	510.2	573.4	768.0	904.7	804.8	736.4	699.6	683.9
80°	1730.5	867.9	383.9	431.3	499.8	683.9	799.6	704.8	657.5	620.7	599.7
82.5°	689.1	426.1	305.1	352.5	420.7	594.4	699.6	620.7	573.4	547.1	489.2
85°	263.0	210.5	205.2	247.3	315.6	457.6	578.6	520.7	483.9	415.5	399.8
87.5°	105.2	94.7	94.7	121.0	178.8	289.3	415.5	363.0	378.7	299.8	305.1
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)