

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: P237120

Luminaire Tested: **ARCH-L-AF72-270-D-U-T3-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237120
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-AF72-270-D-U-T3-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29702 lumens
Efficiency: N/A
Efficacy: 108.8 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

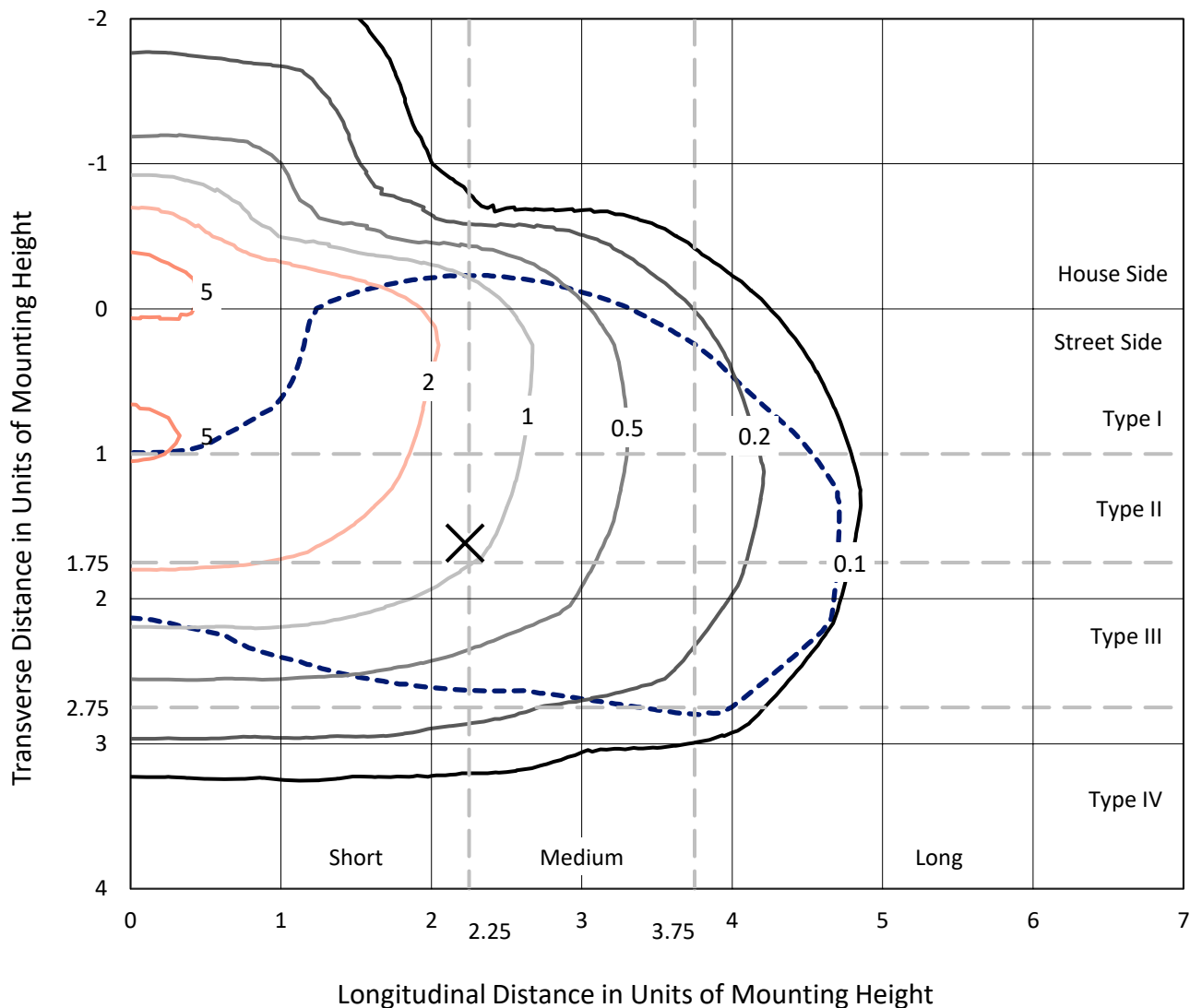
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

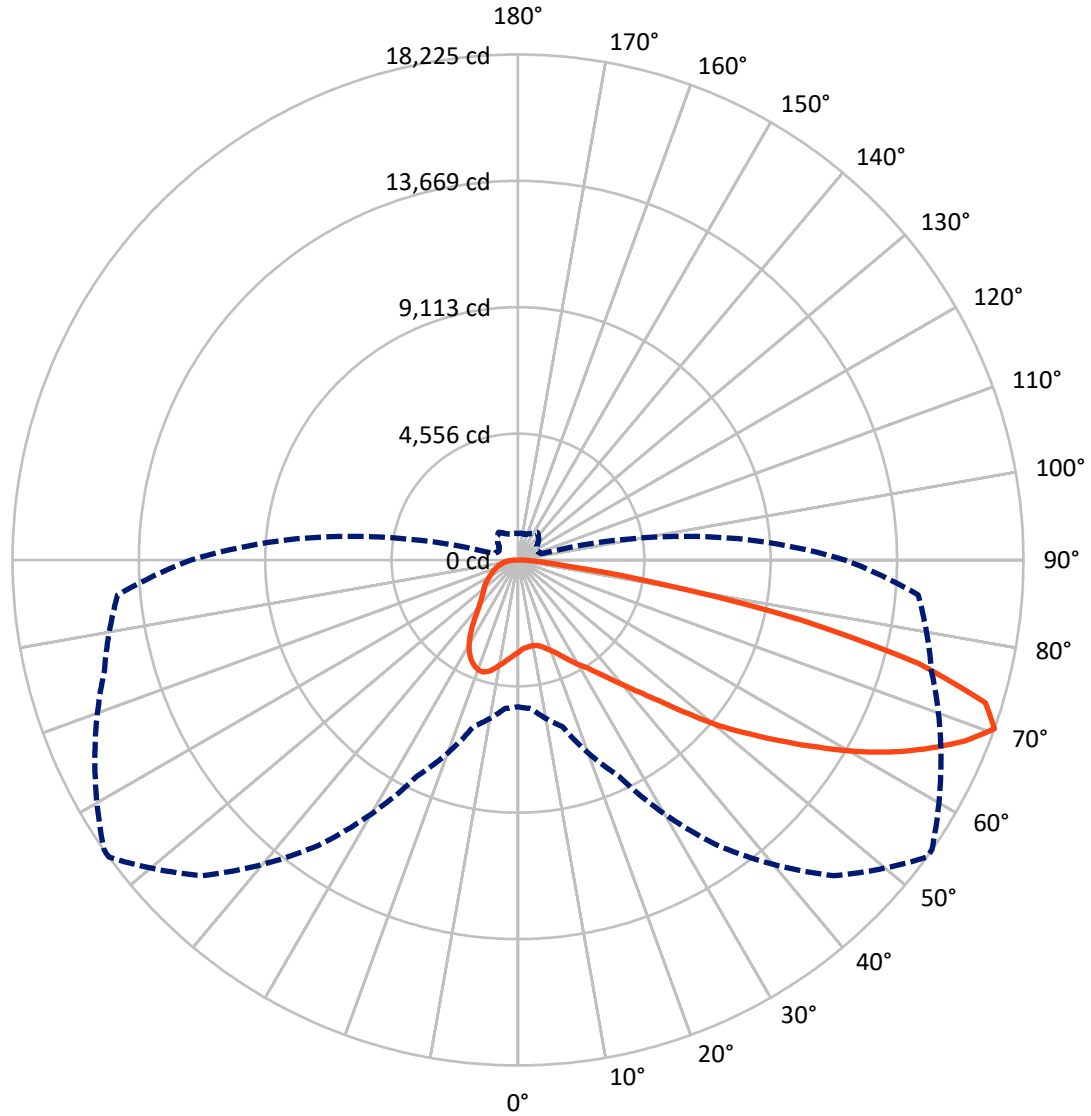
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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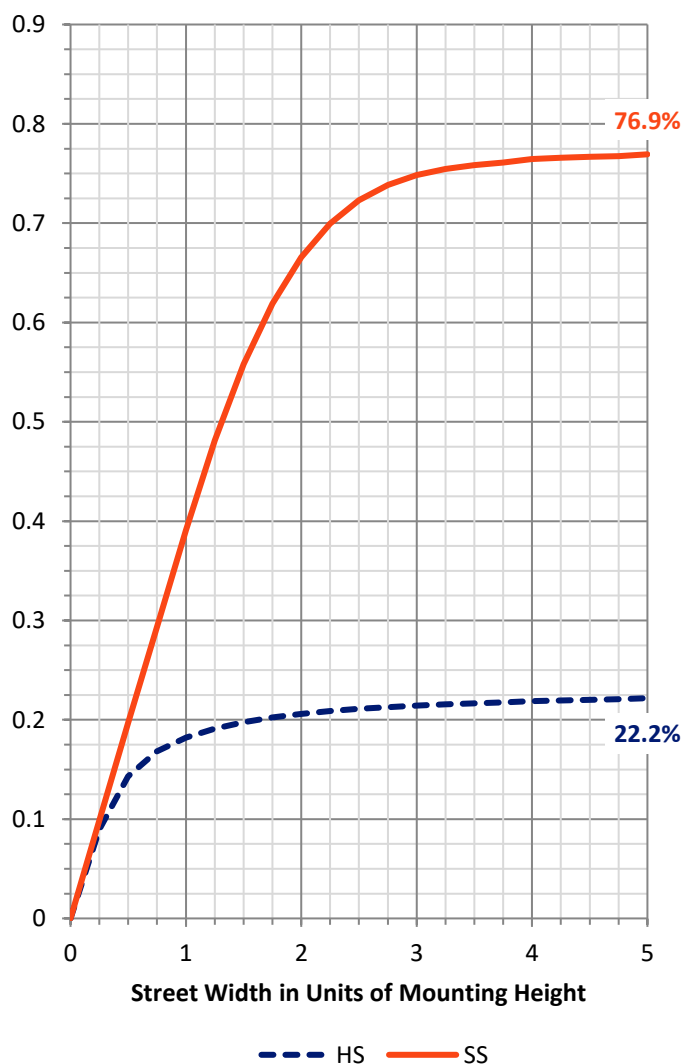
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6736.3	0.0	6736.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	22965.7	0.0	22965.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	29702.0	0.0	29702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.1	1.1
10°-20°	1042.0	3.5
20°-30°	1810.4	6.1
30°-40°	2645.6	8.9
40°-50°	4152.2	14.0
50°-60°	6385.2	21.5
60°-70°	7801.1	26.3
70°-80°	4836.7	16.3
80°-90°	702.6	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°	29702.0	100.0
0°-180°	29702.0	100.0

Coefficient of Utilization



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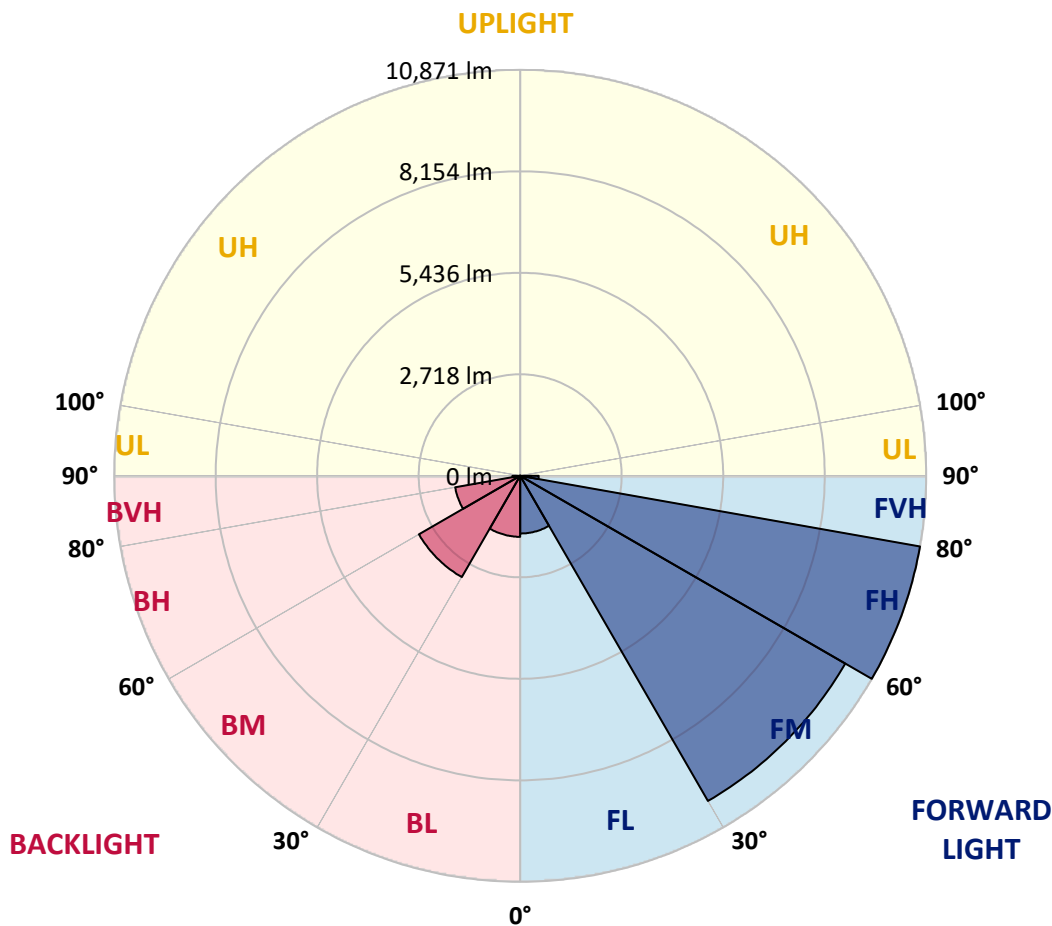
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1545.4	5.2			
FM (30°-60°)	10052.8	33.8			
FH (60°-80°)	10871.4	36.6			G4/12000
FVH (80°-90°)	496.1	1.7			G3/500
BL (0°-30°)	1633.1	5.5	B3/2500		
BM (30°-60°)	3130.3	10.5	B3/5000		
BH (60°-80°)	1766.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	206.5	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°	3323.1	3323.1	3323.1	3323.1	3323.1	3323.1	3323.1	3323.1	3323.1	3323.1	3323.1
2.5°	3192.5	3181.6	3181.6	3198.0	3203.4	3219.7	3219.7	3225.2	3241.5	3268.7	3301.3
5°	3094.6	3089.2	3094.6	3116.4	3127.3	3159.9	3170.8	3176.2	3208.8	3252.4	3301.3
7.5°	2996.7	2991.3	3002.2	3034.8	3067.4	3116.4	3143.6	3149.0	3198.0	3257.8	3323.1
10°	2964.1	2958.7	2975.0	3002.2	3034.8	3089.2	3132.7	3138.1	3208.8	3279.5	3372.0
12.5°	3007.6	3002.2	3018.5	3045.7	3078.3	3116.4	3165.3	3170.8	3263.2	3355.7	3453.6
15°	3116.4	3116.4	3121.8	3138.1	3170.8	3203.4	3246.9	3252.4	3350.2	3459.0	3556.9
17.5°	3285.0	3274.1	3274.1	3268.7	3290.4	3306.7	3361.1	3366.6	3469.9	3567.8	3665.7
20°	3491.7	3486.2	3464.5	3437.3	3431.8	3442.7	3497.1	3502.5	3605.9	3687.4	3779.9
22.5°	3741.8	3747.3	3698.3	3638.5	3611.3	3627.6	3676.6	3682.0	3758.2	3828.9	3910.4
25°	4073.6	4057.3	3986.6	3899.6	3845.2	3845.2	3894.1	3894.1	3964.8	4008.3	4062.7
27.5°	4389.0	4356.4	4291.1	4166.1	4079.0	4095.4	4144.3	4144.3	4209.6	4225.9	4253.1
30°	4731.7	4699.0	4617.5	4459.7	4345.5	4334.7	4394.5	4389.0	4476.1	4470.6	4448.9
32.5°	5150.5	5134.1	4998.2	4796.9	4644.7	4606.6	4661.0	4666.4	4720.8	4704.5	4633.8
35°	5737.8	5732.4	5607.3	5253.8	5052.6	4981.9	5014.5	5014.5	5052.6	5009.1	4889.4
37.5°	6477.5	6488.4	6379.6	5857.5	5574.7	5455.0	5460.5	5455.0	5465.9	5417.0	5291.9
40°	7217.2	7244.4	7238.9	6608.0	6249.1	6042.4	5966.3	5955.4	5982.6	5960.8	5841.2
42.5°	8190.7	8256.0	8103.7	7532.6	7130.2	6782.1	6575.4	6548.2	6608.0	6635.2	6521.0
45°	9202.3	9180.5	8941.2	8527.9	8163.5	7717.5	7325.9	7282.4	7325.9	7407.5	7287.9
47.5°	9729.9	9713.5	9653.7	9447.0	9392.7	8881.4	8288.6	8250.5	8168.9	8283.2	8141.8
50°	10600.1	10616.4	10371.6	10349.9	10578.3	10295.5	9376.3	9289.3	9142.5	9234.9	9115.3
52.5°	11230.9	11160.2	11008.0	11198.3	11910.8	11758.5	10398.8	10360.7	10224.8	10203.0	10148.6
55°	11486.6	11486.6	11513.8	11954.3	12971.3	12770.1	11508.3	11546.4	11361.5	11209.2	11279.9
57.5°	11562.7	11595.3	11829.2	12558.0	14216.8	13558.7	12732.0	12786.4	12519.9	12215.4	12438.3
60°	11187.4	11285.3	11845.5	12900.6	14918.4	14396.3	14021.0	14037.3	13651.2	13205.2	13596.8
62.5°	10224.8	10344.4	11345.2	13042.0	14804.2	15255.6	15239.3	15277.3	14749.8	14195.0	14684.5
65°	9044.6	9164.2	10230.2	12645.0	14717.2	15870.2	16354.2	16457.5	15777.7	15032.6	15364.4
67.5°	7309.6	7467.4	8479.0	11307.1	14292.9	16376.0	17398.4	17507.2	16571.8	15467.7	15304.5
70°	5297.3	5373.4	6221.9	8593.2	12563.4	16098.6	18225.1	18219.7	16832.8	15435.1	14488.7
72.5°	2550.8	2610.6	3344.8	5335.4	8984.8	13662.0	17626.9	17730.2	16473.9	14961.9	12623.3
75°	1049.7	1109.5	1354.2	2251.6	4715.4	9028.3	14940.1	15184.9	14961.9	13428.2	9876.7
77.5°	652.6	674.4	794.1	1163.9	2153.7	4215.0	10458.6	10790.4	11856.4	10757.8	6521.0
80°	489.5	505.8	592.8	815.8	1359.7	1555.5	5194.0	5612.8	7184.5	6172.9	2953.2
82.5°	407.9	413.3	473.2	592.8	924.6	891.9	1664.2	1854.6	3350.2	2355.0	1017.0
85°	380.7	391.6	424.2	424.2	587.4	560.2	690.7	723.3	973.5	804.9	353.5
87.5°	195.8	184.9	375.3	331.8	304.6	271.9	293.7	315.4	364.4	386.1	157.7
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°	3323.1	3323.1	3323.1	3323.1	3323.1	3323.1	3323.1	3323.1	3323.1	3323.1	3323.1
2.5°	3312.2	3328.5	3355.7	3382.9	3415.5	3453.6	3475.3	3502.5	3524.3	3513.4	3508.0
5°	3328.5	3355.7	3415.5	3469.9	3535.2	3611.3	3660.3	3714.6	3758.2	3769.0	3752.7
7.5°	3355.7	3404.6	3486.2	3584.1	3671.1	3769.0	3845.2	3921.3	3975.7	3986.6	3986.6
10°	3421.0	3475.3	3584.1	3714.6	3818.0	3921.3	4008.3	4068.2	4117.1	4138.9	4138.9
12.5°	3513.4	3578.7	3709.2	3866.9	3981.1	4079.0	4128.0	4155.2	4176.9	4198.7	4204.1
15°	3622.2	3692.9	3850.6	4019.2	4138.9	4187.8	4187.8	4182.4	4182.4	4193.2	4204.1
17.5°	3731.0	3807.1	3970.3	4149.7	4225.9	4198.7	4160.6	4144.3	4133.4	4128.0	4144.3
20°	3845.2	3921.3	4084.5	4253.1	4231.3	4117.1	4062.7	4024.6	3992.0	3975.7	3997.5
22.5°	3970.3	4041.0	4209.6	4323.8	4160.6	3986.6	3883.2	3823.4	3769.0	3736.4	3758.2
25°	4117.1	4187.8	4351.0	4345.5	4035.5	3790.8	3627.6	3529.7	3469.9	3437.3	3437.3
27.5°	4291.1	4351.0	4508.7	4291.1	3861.5	3529.7	3290.4	3198.0	3181.6	3154.5	3154.5
30°	4470.6	4519.6	4655.5	4166.1	3622.2	3187.1	2926.0	2882.5	2888.0	2860.8	2866.2
32.5°	4655.5	4704.5	4742.6	3981.1	3312.2	2800.9	2626.9	2594.3	2588.8	2567.1	2545.3
35°	4916.6	4987.3	4753.4	3731.0	2936.9	2480.1	2355.0	2322.3	2289.7	2213.6	2213.6
37.5°	5313.6	5389.8	4726.2	3421.0	2550.8	2229.9	2115.7	2072.1	2017.8	1941.6	1914.4
40°	5857.5	5857.5	4666.4	3072.9	2240.7	2028.6	1919.9	1865.5	1805.7	1729.5	1713.2
42.5°	6499.3	6347.0	4574.0	2719.4	2012.3	1892.7	1794.8	1734.9	1664.2	1577.2	1566.3
45°	7249.8	6836.5	4443.4	2403.9	1843.7	1811.1	1751.3	1647.9	1528.3	1435.8	1419.5
47.5°	7978.6	7277.0	4318.3	2180.9	1702.3	1778.5	1729.5	1555.5	1392.3	1261.8	1245.5
50°	8778.1	7668.6	4171.5	1996.0	1593.5	1756.7	1702.3	1419.5	1240.0	1147.6	1136.7
52.5°	9577.6	8065.6	4013.8	1800.2	1501.1	1713.2	1637.1	1321.6	1234.6	1109.5	1093.2
55°	10420.6	8527.9	3828.9	1582.7	1392.3	1626.2	1550.0	1316.2	1272.7	1109.5	1071.4
57.5°	11241.8	9039.1	3529.7	1370.6	1272.7	1495.6	1517.4	1283.5	1191.1	1098.6	1055.1
60°	12150.1	9583.0	3034.8	1191.1	1169.3	1386.9	1473.9	1212.8	1098.6	1066.0	1044.2
62.5°	12878.9	10072.5	2371.3	1066.0	1082.3	1299.9	1419.5	1169.3	1060.5	1033.4	1027.9
65°	13194.3	10083.4	1702.3	957.2	995.3	1218.3	1365.1	1131.3	1027.9	1017.0	1011.6
67.5°	12862.6	9528.6	1196.5	853.9	902.8	1142.1	1294.4	1093.2	995.3	1000.7	989.8
70°	11791.1	8359.3	875.6	756.0	815.8	1060.5	1218.3	1044.2	957.2	968.1	951.8
72.5°	9865.8	6515.6	701.6	674.4	745.1	973.5	1142.1	989.8	897.4	902.8	870.2
75°	7287.9	4318.3	587.4	603.7	663.5	891.9	1044.2	919.1	832.1	810.4	788.6
77.5°	4334.7	2219.0	484.0	527.6	592.8	794.1	935.5	832.1	761.4	723.3	707.0
80°	1789.3	897.4	397.0	446.0	516.7	707.0	826.7	728.8	679.8	641.8	620.0
82.5°	712.5	440.5	315.4	364.4	435.1	614.6	723.3	641.8	592.8	565.6	505.8
85°	271.9	217.5	212.1	255.6	326.3	473.2	598.3	538.4	500.4	429.7	413.3
87.5°	108.8	97.9	97.9	125.1	184.9	299.1	429.7	375.3	391.6	310.0	315.4
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)