

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: P237360

Luminaire Tested: **ARCH-L-AF72-270-D-U-T4W-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
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-T4W-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29579 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

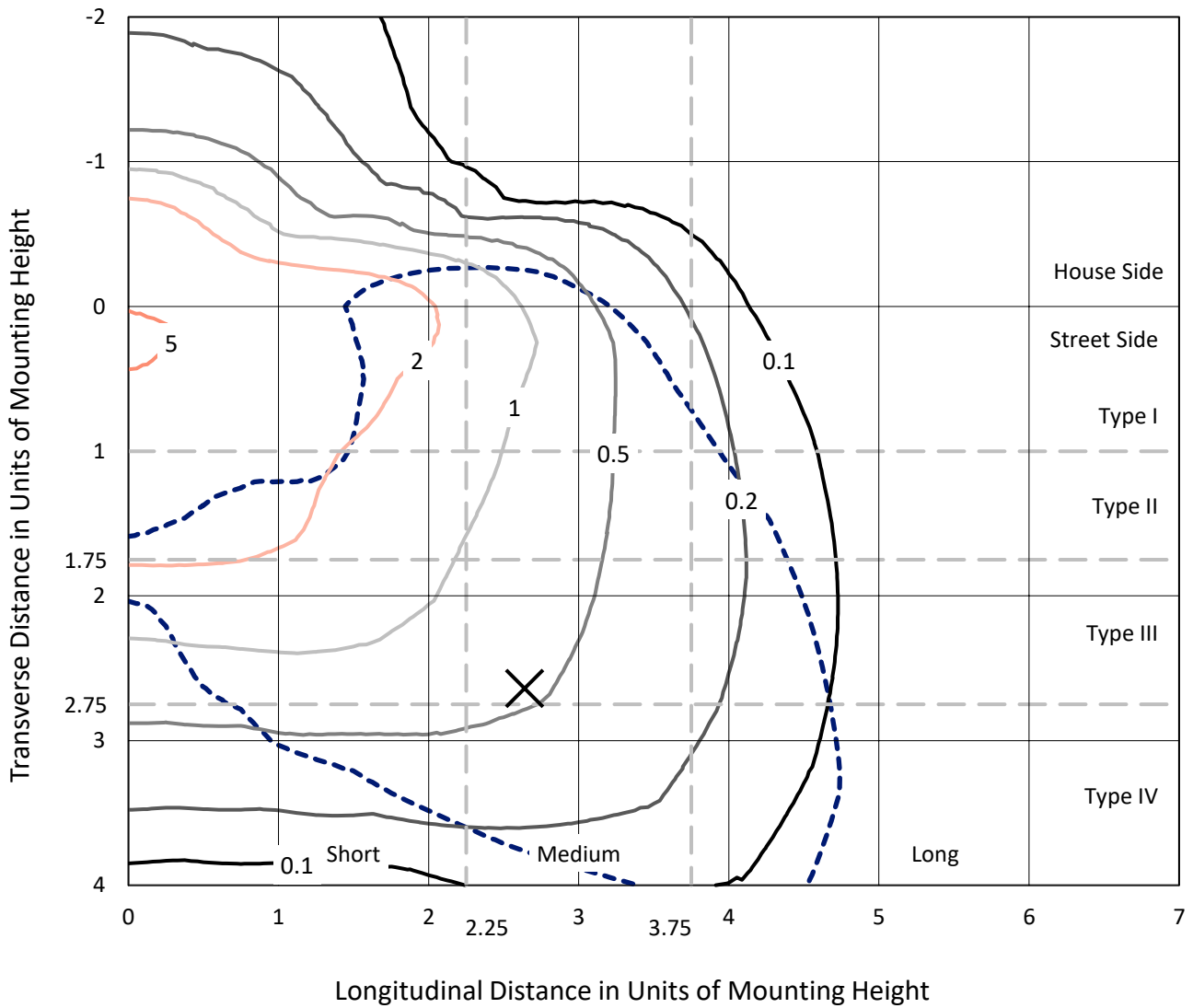
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

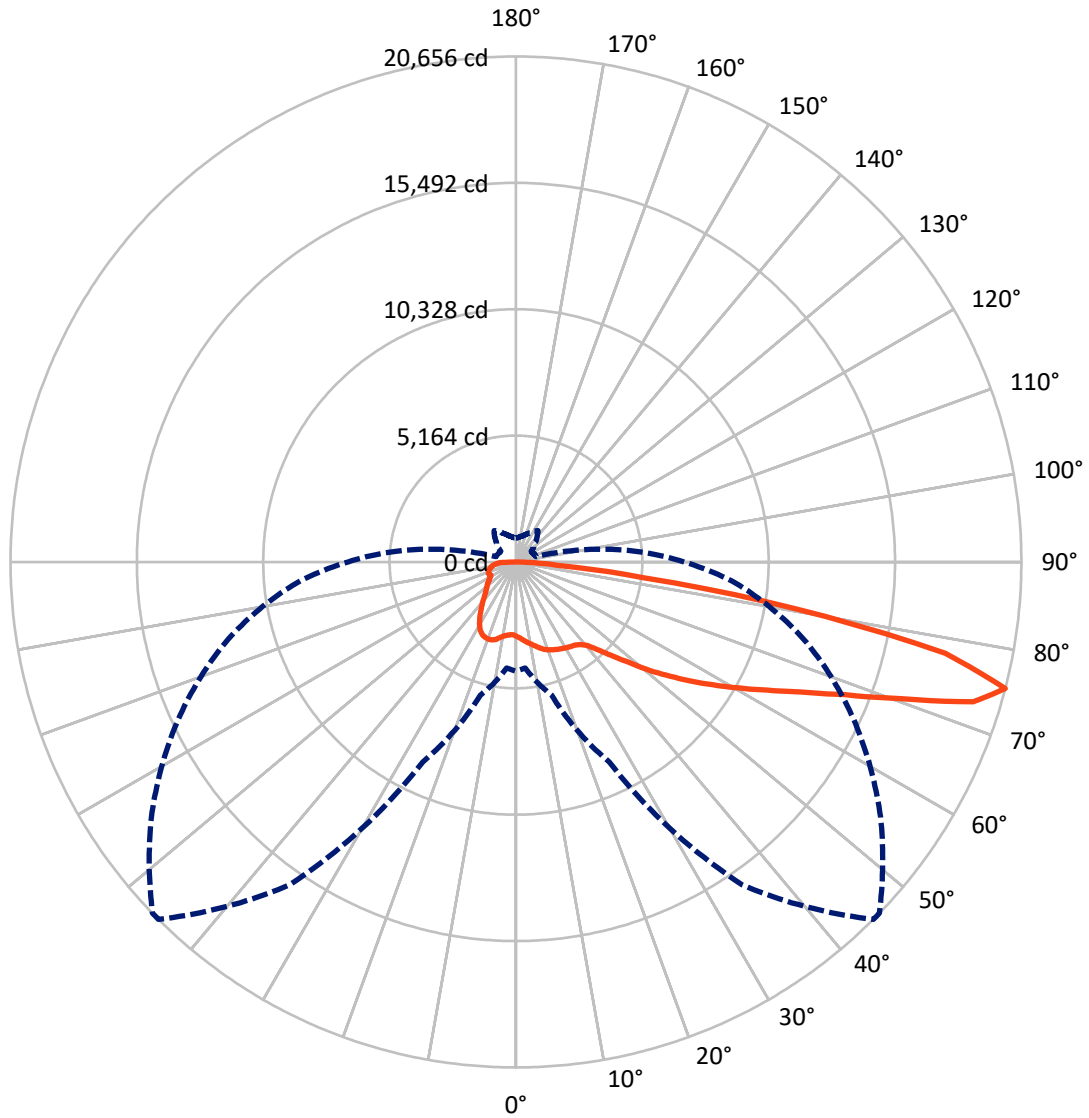
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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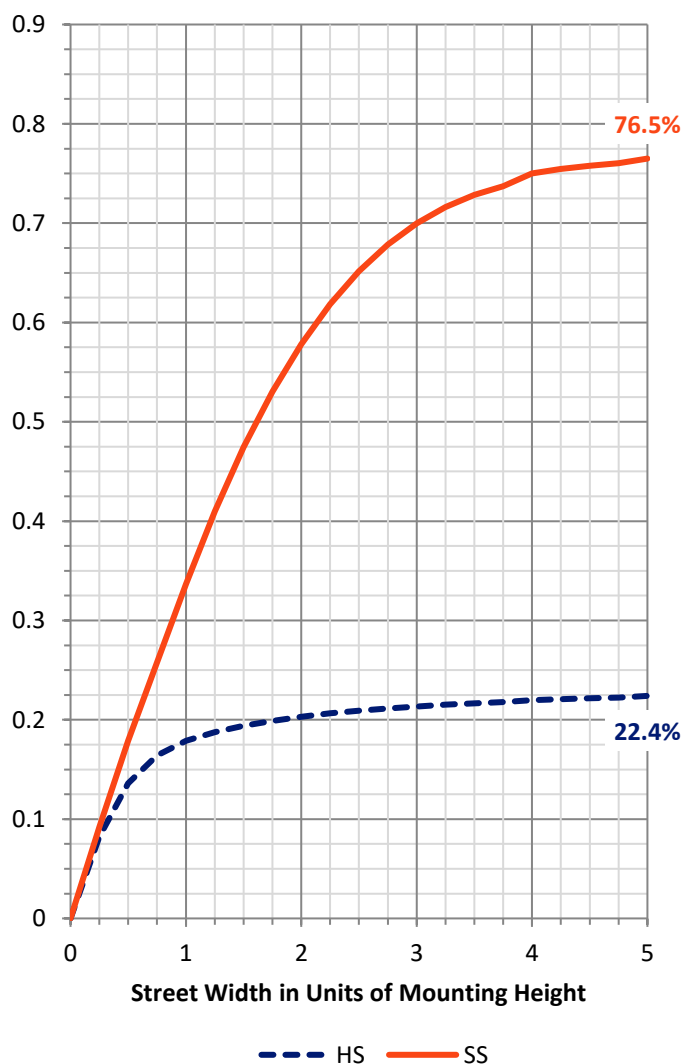
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6852.2	0.0	6852.2
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	22726.8	0.0	22726.8
	% Fixture	76.8	0.0	76.8
Total	Lumens	29579.0	0.0	29579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.5	1.0
10°-20°	973.8	3.3
20°-30°	1671.0	5.6
30°-40°	2337.1	7.9
40°-50°	3428.3	11.6
50°-60°	5340.4	18.1
60°-70°	7684.4	26.0
70°-80°	6693.9	22.6
80°-90°	1149.6	3.9
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°	29579.0	100.0
0°-180°	29579.0	100.0

Coefficient of Utilization



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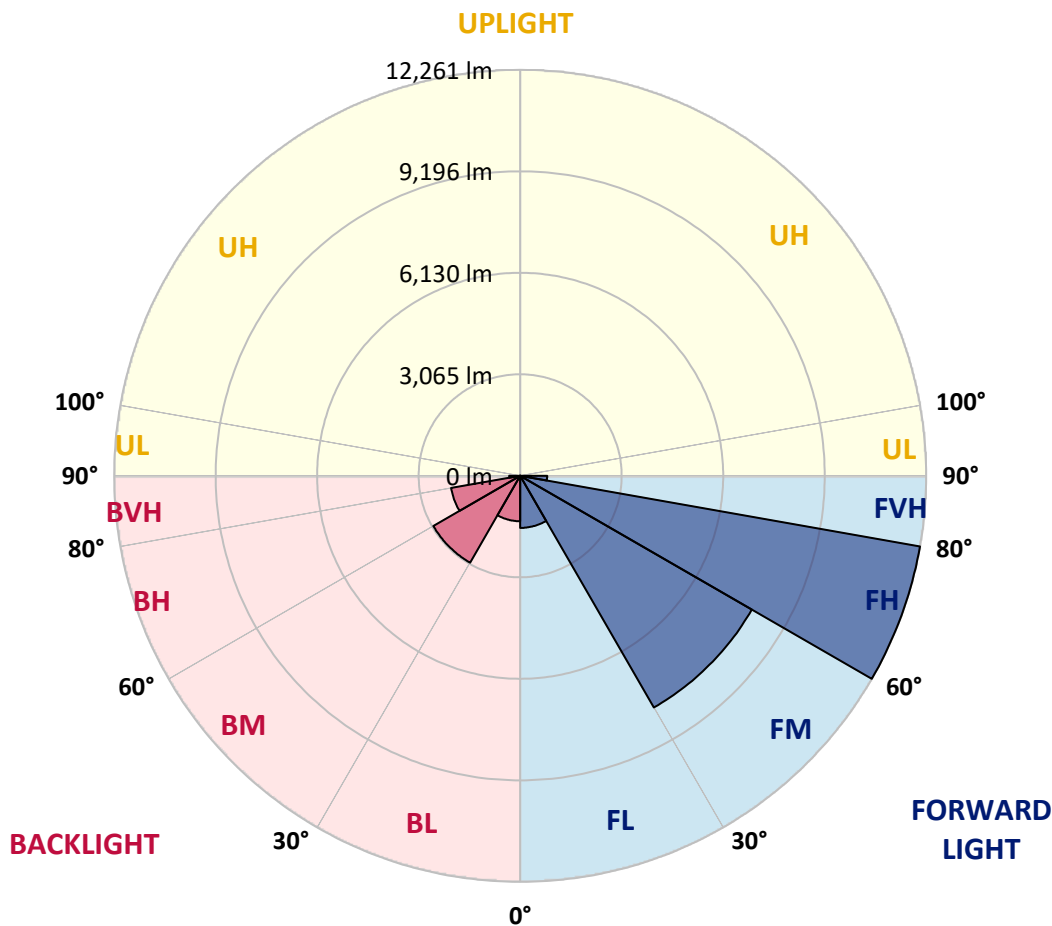
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1572.9	5.3			
FM (30°-60°)	8077.5	27.3			
FH (60°-80°)	12260.8	41.5			G5
FVH (80°-90°)	815.6	2.8			G5
BL (0°-30°)	1372.4	4.6	B3/2500		
BM (30°-60°)	3028.3	10.2	B3/5000		
BH (60°-80°)	2117.6	7.2	B3/2500		G3/2500
BVH (80°-90°)	334.0	1.1			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3
2.5°	3181.9	3158.9	3158.9	3141.6	3141.6	3112.8	3101.3	3095.6	3066.8	3049.5	3032.3
5°	3366.0	3337.2	3331.5	3291.2	3273.9	3210.6	3204.9	3164.6	3112.8	3061.0	3020.8
7.5°	3532.9	3515.6	3486.8	3446.5	3394.8	3314.2	3308.5	3245.2	3158.9	3089.8	3032.3
10°	3653.7	3642.2	3601.9	3550.1	3492.6	3412.0	3406.3	3337.2	3233.7	3153.1	3072.5
12.5°	3797.5	3780.3	3728.5	3659.4	3596.1	3521.3	3515.6	3458.1	3343.0	3239.4	3135.8
15°	3935.6	3912.6	3849.3	3780.3	3711.2	3647.9	3647.9	3584.6	3463.8	3343.0	3222.1
17.5°	4004.7	3993.2	3929.9	3855.1	3797.5	3751.5	3745.7	3688.2	3567.4	3440.8	3308.5
20°	4027.7	4033.4	3975.9	3895.3	3855.1	3832.0	3826.3	3786.0	3653.7	3532.9	3406.3
22.5°	4021.9	4039.2	3993.2	3906.8	3895.3	3895.3	3895.3	3849.3	3745.7	3624.9	3498.3
25°	4044.9	4068.0	4033.4	3929.9	3929.9	3952.9	3952.9	3929.9	3837.8	3734.2	3607.6
27.5°	4125.5	4142.8	4114.0	3970.1	3975.9	4010.4	4004.7	4010.4	3952.9	3855.1	3728.5
30°	4223.3	4246.3	4211.8	4033.4	4027.7	4062.2	4062.2	4091.0	4050.7	3947.1	3843.6
32.5°	4488.0	4482.2	4372.9	4102.5	4085.2	4119.7	4119.7	4148.5	4125.5	4044.9	3947.1
35°	5276.3	5190.0	4948.3	4326.9	4154.3	4171.5	4171.5	4223.3	4234.8	4171.5	4085.2
37.5°	6081.8	6053.0	5868.9	4925.3	4407.4	4280.8	4275.1	4349.9	4401.7	4349.9	4292.4
40°	6893.1	6870.1	6829.8	5725.1	4936.8	4476.5	4459.2	4522.5	4614.6	4580.0	4545.5
42.5°	7646.8	7635.3	7675.6	6513.3	5610.0	4896.5	4844.7	4769.9	4902.3	4890.8	4890.8
45°	8239.5	8268.3	8291.3	7249.8	6340.7	5437.4	5374.1	5120.9	5299.3	5345.3	5379.8
47.5°	8573.2	8596.2	8676.8	7969.1	7071.5	6064.5	6018.5	5604.2	5840.1	5978.2	6076.0
50°	9050.8	8987.5	9056.5	8671.0	7951.8	6881.6	6755.0	6254.4	6553.6	6795.3	7025.4
52.5°	9511.1	9407.5	9465.0	9482.3	8953.0	7681.4	7549.0	7019.7	7393.7	7773.4	8181.9
55°	9925.4	9919.6	9977.1	10270.6	9919.6	8538.7	8389.1	7865.5	8406.3	8814.9	9505.3
57.5°	10259.1	10316.6	10569.8	11185.4	11035.8	9470.8	9303.9	8849.4	9488.1	9896.6	11041.6
60°	10650.3	10742.4	11162.4	11962.2	12054.3	10449.0	10276.3	9948.4	10598.6	11012.8	12819.5
62.5°	10782.7	10915.0	11778.1	12779.3	13118.7	11519.2	11363.8	11145.2	11766.6	12140.6	14591.7
65°	9902.3	10155.5	12117.6	13199.3	14263.7	12808.0	12675.7	12485.8	12928.9	13176.3	15794.3
67.5°	9660.7	9775.8	11455.9	13803.4	15339.7	14465.1	14332.8	14004.8	14016.3	13912.8	16185.5
70°	9321.2	9447.8	10776.9	14258.0	16881.7	16732.1	16571.0	15604.4	15011.7	14384.6	15414.5
72.5°	7940.3	7900.0	9286.7	13032.4	17624.0	19540.0	19350.1	17324.8	15748.2	13976.0	13009.4
75°	4459.2	4344.1	5633.0	9016.2	16093.5	20656.2	20650.5	18193.6	15230.4	12175.1	8855.1
77.5°	1294.6	1260.1	1858.5	3780.3	10834.5	17946.2	18164.8	16409.9	12710.2	8745.8	4862.0
80°	609.9	621.4	799.8	1248.6	4626.1	11582.5	12209.6	10805.7	7595.1	4033.4	2008.1
82.5°	385.5	391.3	546.6	805.5	1956.3	5259.0	5776.8	4862.0	3009.3	1743.4	886.1
85°	241.7	241.7	362.5	529.4	1168.0	1680.1	1824.0	1657.1	1288.9	949.4	483.3
87.5°	132.3	132.3	218.6	305.0	638.7	540.9	558.1	661.7	805.5	581.1	241.7
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°	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3	3032.3
2.5°	3026.5	3015.0	2997.7	2992.0	2986.2	2980.5	2986.2	2997.7	2986.2	2986.2	2992.0
5°	3009.3	2997.7	2974.7	2974.7	2980.5	2986.2	3015.0	3032.3	3038.0	3038.0	3038.0
7.5°	3009.3	2992.0	2974.7	2980.5	2992.0	3015.0	3061.0	3089.8	3112.8	3118.6	3118.6
10°	3038.0	3015.0	3003.5	3015.0	3049.5	3066.8	3112.8	3158.9	3187.6	3199.1	3199.1
12.5°	3089.8	3066.8	3066.8	3089.8	3135.8	3158.9	3199.1	3233.7	3268.2	3285.4	3285.4
15°	3176.1	3147.3	3153.1	3193.4	3245.2	3268.2	3296.9	3308.5	3337.2	3360.2	3360.2
17.5°	3256.7	3227.9	3239.4	3285.4	3320.0	3331.5	3348.7	3343.0	3354.5	3371.7	3377.5
20°	3348.7	3320.0	3325.7	3354.5	3360.2	3348.7	3348.7	3331.5	3325.7	3354.5	3366.0
22.5°	3440.8	3412.0	3406.3	3389.0	3360.2	3331.5	3314.2	3296.9	3285.4	3314.2	3325.7
25°	3550.1	3509.8	3481.1	3406.3	3331.5	3279.7	3256.7	3245.2	3239.4	3268.2	3279.7
27.5°	3670.9	3630.7	3544.4	3383.3	3262.4	3176.1	3158.9	3158.9	3170.4	3187.6	3199.1
30°	3786.0	3745.7	3590.4	3331.5	3141.6	3015.0	2997.7	3015.0	3043.8	3061.0	3078.3
32.5°	3901.1	3860.8	3619.2	3250.9	2963.2	2802.1	2790.6	2819.4	2865.4	2876.9	2888.4
35°	4056.4	4016.2	3653.7	3135.8	2738.8	2566.2	2554.7	2572.0	2612.2	2629.5	2646.8
37.5°	4275.1	4252.1	3705.5	3009.3	2531.7	2341.8	2307.3	2295.8	2318.8	2313.0	2336.1
40°	4562.8	4580.0	3797.5	2842.4	2330.3	2134.7	2059.9	2025.3	2002.3	1956.3	1979.3
42.5°	4982.8	4994.3	3901.1	2652.5	2157.7	1939.0	1841.2	1777.9	1731.9	1657.1	1668.6
45°	5598.5	5500.7	4021.9	2451.1	2002.3	1783.7	1668.6	1593.8	1530.5	1467.2	1473.0
47.5°	6415.5	6116.3	4154.3	2284.3	1847.0	1657.1	1553.5	1467.2	1392.4	1340.6	1346.4
50°	7422.4	6881.6	4286.6	2128.9	1691.6	1559.3	1467.2	1375.2	1300.4	1248.6	1242.8
52.5°	8751.6	7802.2	4372.9	1956.3	1536.3	1473.0	1392.4	1306.1	1214.1	1150.8	1145.0
55°	10132.5	8872.4	4447.7	1749.2	1386.7	1375.2	1334.9	1237.1	1127.8	1047.2	1035.7
57.5°	11651.5	10017.4	4505.2	1547.8	1271.6	1294.6	1283.1	1168.0	1047.2	972.4	966.6
60°	13032.4	11202.7	4321.1	1369.4	1168.0	1214.1	1225.6	1127.8	1064.5	1081.7	1087.5
62.5°	14424.8	12117.6	3619.2	1237.1	1099.0	1162.3	1260.1	1254.3	1225.6	1254.3	1260.1
65°	14925.4	12307.4	2566.2	1127.8	1029.9	1185.3	1369.4	1357.9	1225.6	1173.8	1162.3
67.5°	14643.5	11743.6	1726.1	1041.4	978.2	1214.1	1484.5	1357.9	1179.5	1110.5	1087.5
70°	13302.8	10356.9	1265.8	955.1	932.1	1208.3	1547.8	1352.1	1156.5	1081.7	1053.0
72.5°	10610.1	7992.1	1018.4	874.6	863.1	1179.5	1582.3	1340.6	1133.5	1053.0	1018.4
75°	6870.1	4971.3	857.3	794.0	759.5	1133.5	1565.0	1306.1	1104.7	1001.2	978.2
77.5°	3187.6	2140.4	730.7	702.0	661.7	1064.5	1513.3	1237.1	1041.4	943.6	914.9
80°	1484.5	1012.7	615.7	609.9	592.6	1006.9	1444.2	1156.5	966.6	886.1	840.1
82.5°	794.0	609.9	500.6	500.6	517.8	937.9	1357.9	1058.7	868.8	828.6	707.7
85°	420.0	351.0	362.5	391.3	443.0	828.6	1242.8	955.1	759.5	632.9	615.7
87.5°	212.9	224.4	224.4	264.7	339.5	673.2	1024.2	788.3	644.4	517.8	506.3
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)