

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: P400138

Luminaire Tested: **ARCH-L-PA3-240-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-240-730-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30080 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

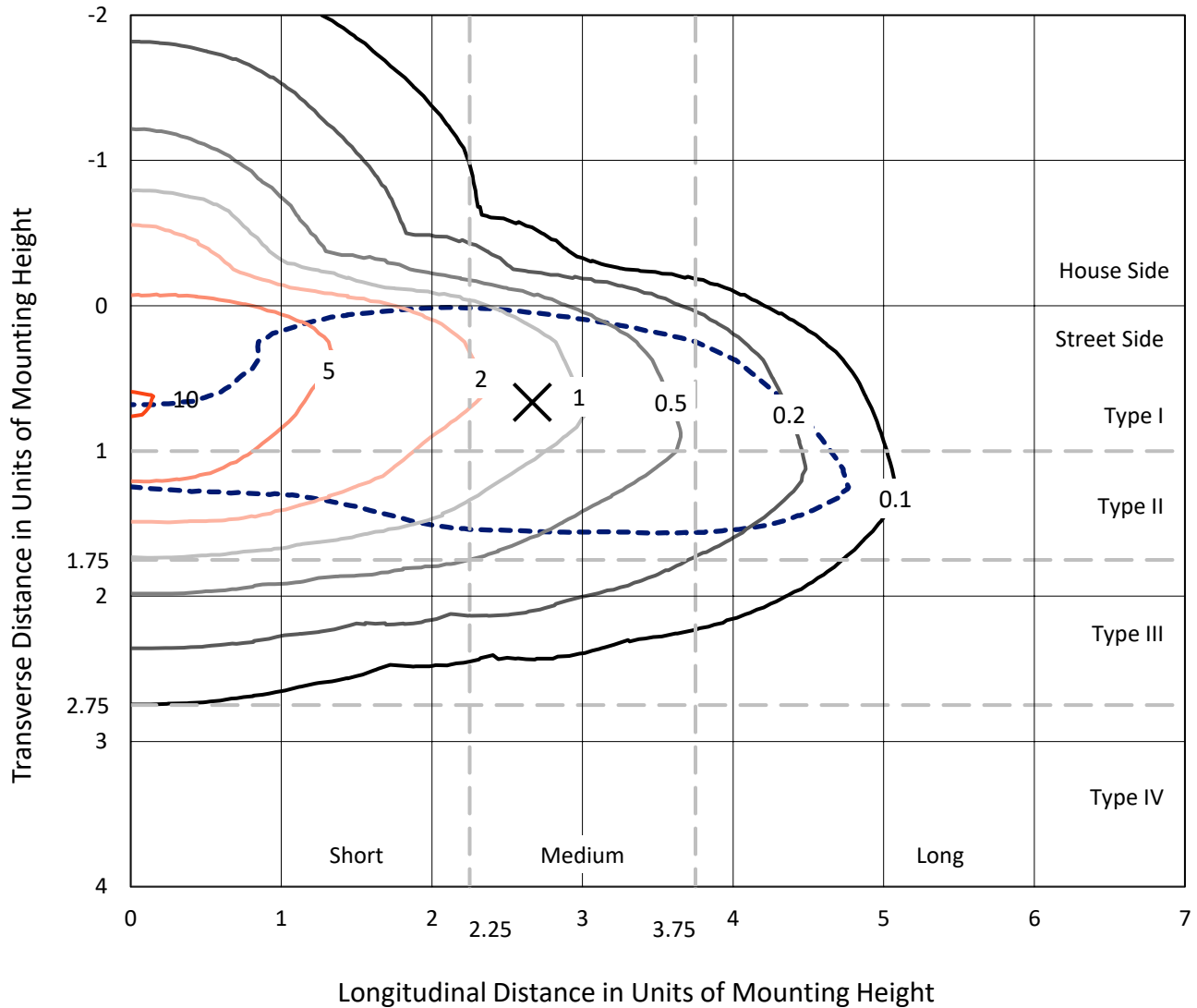
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400138
 CATALOG NUMBER: ARCH-L-PA3-240-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

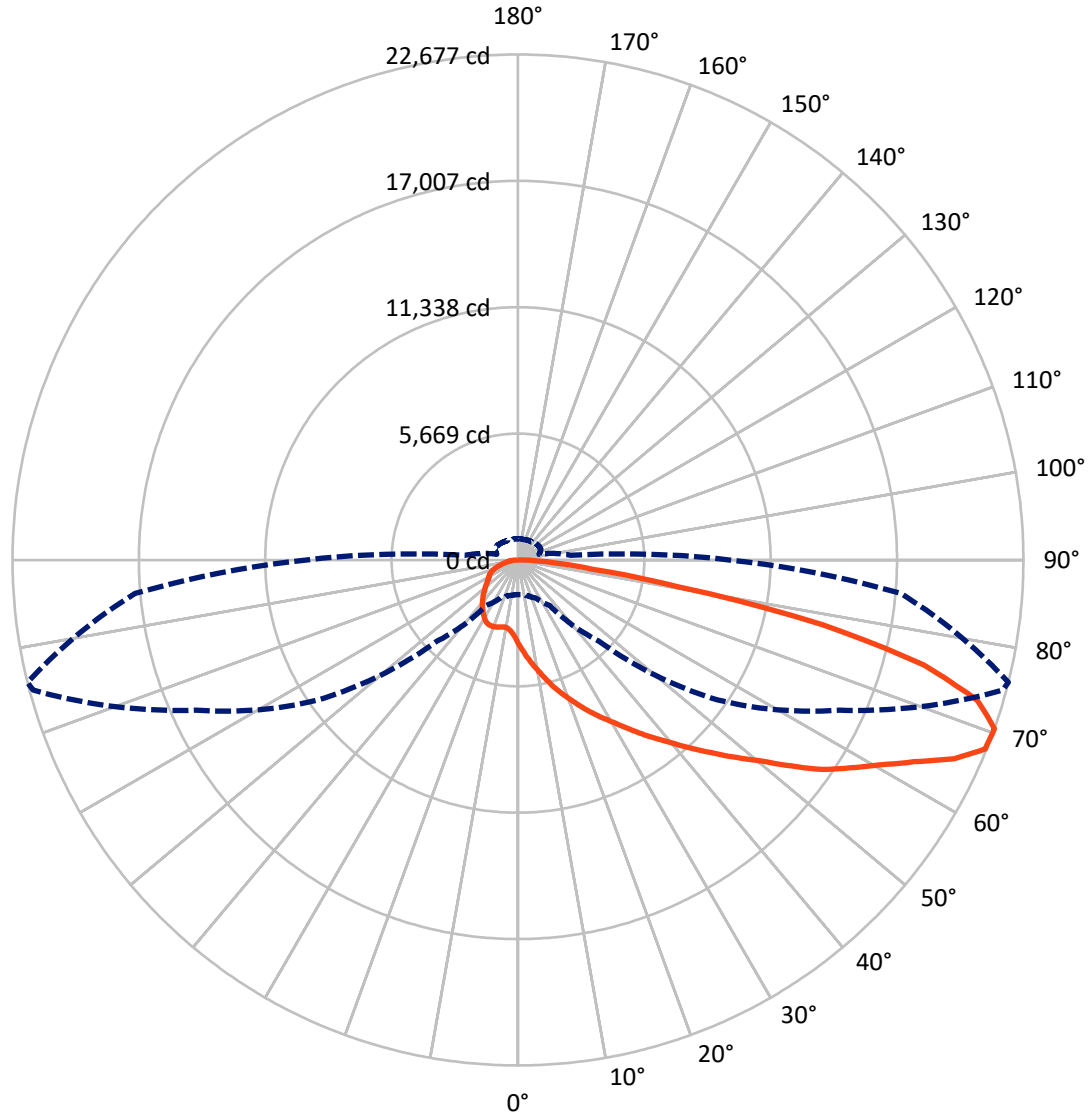
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P400138
CATALOG NUMBER: ARCH-L-PA3-240-730-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P400138
 CATALOG NUMBER: ARCH-L-PA3-240-730-U-T2R

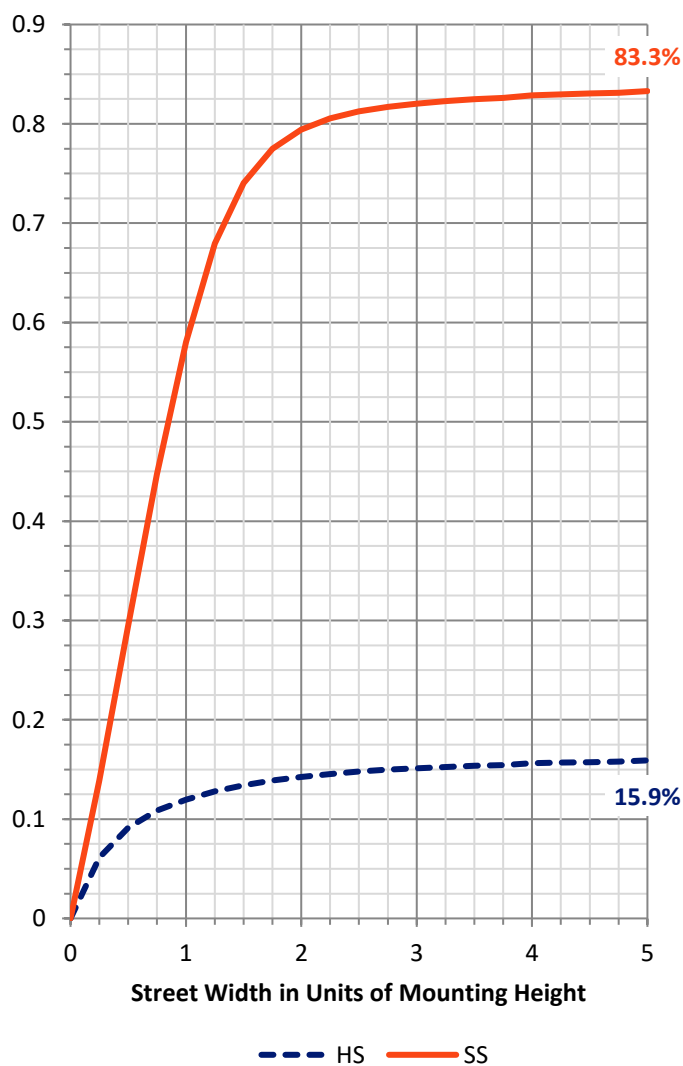
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4910.9	0.0	4910.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	25169.1	0.0	25169.1
	% Fixture	83.7	0.0	83.7
Total	Lumens	30080.0	0.0	30080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.9	1.3
10°-20°	1328.4	4.4
20°-30°	2376.6	7.9
30°-40°	3844.5	12.8
40°-50°	5561.7	18.5
50°-60°	6365.7	21.2
60°-70°	5855.7	19.5
70°-80°	3621.1	12.0
80°-90°	735.3	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°	30080.0	100.0
0°-180°	30080.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400138

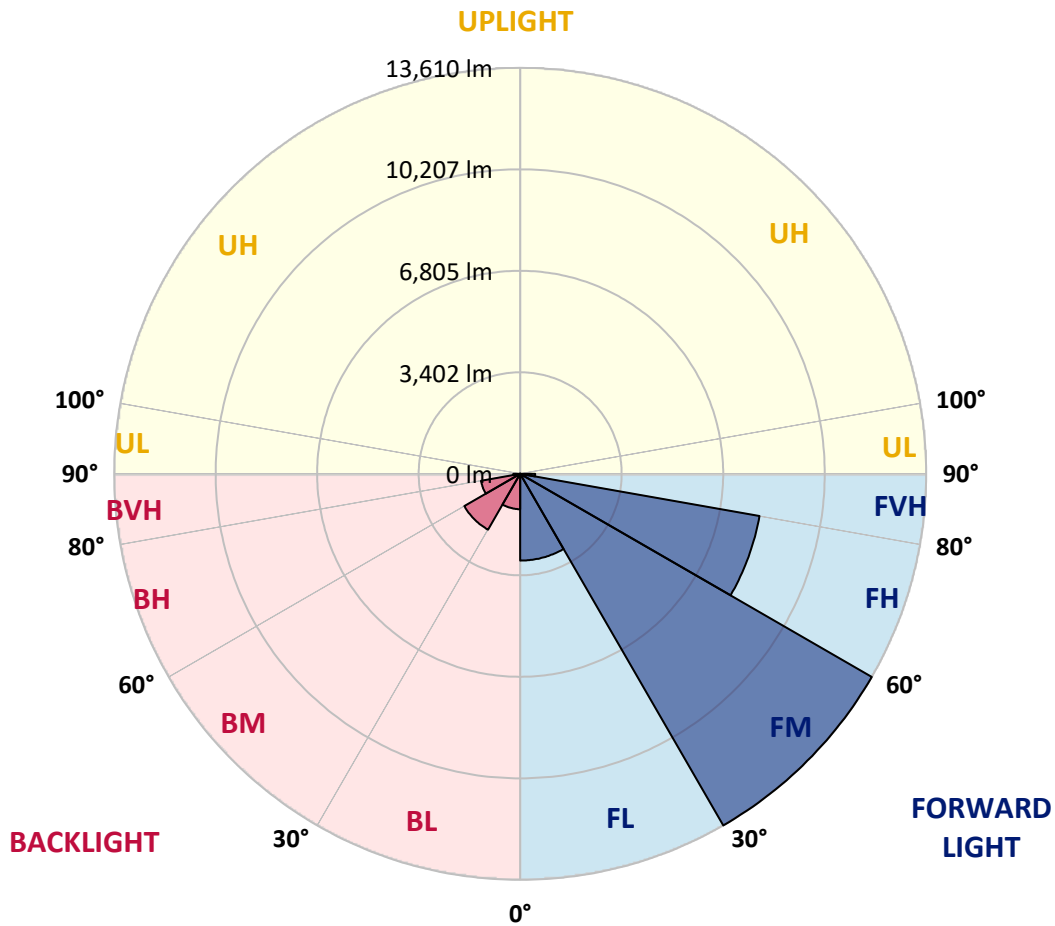
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2909.7	9.7			
FM (30°-60°)	13609.8	45.2			
FH (60°-80°)	8144.8	27.1			G4/12000
FVH (80°-90°)	504.8	1.7			G4/750
BL (0°-30°)	1186.1	3.9	B3/2500		
BM (30°-60°)	2162.2	7.2	B2/2500		
BH (60°-80°)	1332.0	4.4	B3/2500		G3/2500
BVH (80°-90°)	230.5	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





REPORT NUMBER: P400138

CATALOG NUMBER: ARCH-L-PA3-240-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3761.6	3761.6	3761.6	3761.6	3761.6	3761.6	3761.6	3761.6	3761.6	3761.6	3761.6
2.5°	4794.0	4758.4	4754.5	4699.1	4647.7	4509.2	4410.3	4236.3	4062.2	4058.3	3884.3
5°	5541.6	5506.0	5486.2	5419.0	5331.9	5150.0	4972.0	4703.0	4406.4	4386.6	4058.3
7.5°	6047.9	6016.2	5976.7	5949.0	5865.9	5703.8	5486.2	5165.8	4758.4	4718.9	4260.0
10°	6388.1	6368.3	6360.4	6340.6	6289.2	6158.6	5949.0	5608.8	5110.4	5066.9	4473.6
12.5°	6534.4	6526.5	6562.1	6617.5	6637.2	6585.8	6384.1	6063.7	5498.1	5450.6	4730.7
15°	6364.3	6372.2	6463.2	6653.1	6854.8	6965.5	6846.9	6534.4	5937.1	5869.9	5031.3
17.5°	6285.2	6297.1	6360.4	6542.3	6827.1	7171.2	7226.6	6981.4	6360.4	6265.4	5347.8
20°	6423.7	6439.5	6486.9	6629.3	6827.1	7195.0	7483.7	7408.6	6775.7	6676.8	5652.3
22.5°	6775.7	6795.5	6791.5	6882.5	7017.0	7270.1	7626.1	7812.0	7210.8	7100.0	5968.8
25°	7527.2	7511.4	7376.9	7333.4	7369.0	7531.2	7816.0	8199.6	7665.7	7554.9	6301.0
27.5°	8547.7	8527.9	8282.7	8061.2	7863.4	7934.6	8084.9	8512.1	8128.4	8001.9	6617.5
30°	9639.4	9615.7	9330.9	8971.0	8531.9	8429.1	8409.3	8785.1	8595.2	8460.7	6953.7
32.5°	10703.4	10683.7	10379.1	9959.8	9354.6	9046.1	8856.3	9089.6	9125.2	8994.7	7321.5
35°	11672.5	11672.5	11411.5	10913.1	10228.8	9762.0	9449.6	9465.4	9734.4	9584.1	7740.8
37.5°	12534.8	12530.9	12246.1	11755.6	11099.0	10565.0	10177.4	9920.3	10315.8	10185.3	8179.9
40°	13219.1	13191.4	12981.8	12554.6	11894.0	11364.0	10972.4	10454.3	10964.5	10845.8	8646.6
42.5°	13717.5	13701.7	13559.3	13187.5	12558.6	12060.2	11791.2	11126.7	11700.2	11581.6	9192.5
45°	13911.3	13943.0	13943.0	13590.9	13092.5	12637.7	12519.0	11866.3	12495.3	12376.6	9777.9
47.5°	13598.8	13681.9	13852.0	13875.7	13436.7	13128.1	13167.7	12610.0	13314.0	13250.8	10418.7
50°	12621.8	12776.1	13147.9	13820.3	13575.1	13503.9	13721.5	13369.4	14192.2	14172.4	11197.9
52.5°	10102.2	10478.0	11636.9	12843.3	13480.2	13677.9	14271.3	14223.8	15323.4	15355.1	12214.4
55°	7748.7	7891.1	9232.0	11284.9	12898.7	13622.6	14639.1	15058.4	16549.6	16589.2	13147.9
57.5°	6265.4	6360.4	7092.1	9232.0	11573.6	13322.0	14927.9	15544.9	17491.0	17593.8	13978.6
60°	4964.1	5102.5	5593.0	7064.4	9718.5	12598.1	15129.6	16086.8	18503.6	18657.9	14971.4
62.5°	3690.4	3757.7	4220.5	5233.1	7693.3	11296.8	15022.8	16676.2	19745.6	19931.5	16165.9
65°	2626.4	2685.8	3014.1	3722.1	5687.9	9536.6	14401.8	17115.2	21304.1	21493.9	17368.4
67.5°	1965.9	1989.6	2175.5	2602.7	3832.8	7408.6	13144.0	17040.1	22443.2	22613.3	17850.9
70°	1554.5	1562.4	1653.4	1882.8	2491.9	5157.9	10940.8	15936.5	22526.3	22676.6	17241.8
72.5°	1289.5	1285.5	1336.9	1447.7	1736.4	3263.2	8104.7	13887.6	21458.3	21561.2	15541.0
75°	1064.0	1071.9	1107.5	1170.8	1325.1	2151.8	5252.8	11079.2	18930.8	18820.0	13041.1
77.5°	893.9	890.0	905.8	961.2	1071.9	1546.6	3077.3	8005.8	14030.0	13974.6	8559.6
80°	719.9	727.8	751.5	799.0	901.8	1178.7	1819.5	4995.7	7527.2	7325.5	4089.9
82.5°	482.6	557.7	605.2	660.6	779.2	870.2	1155.0	2539.4	3366.1	3314.7	1855.1
85°	229.4	304.6	450.9	514.2	632.9	545.9	783.2	1210.4	1685.0	1665.2	668.5
87.5°	47.5	47.5	241.3	288.7	391.6	233.4	435.1	526.1	814.8	763.4	272.9
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: P400138

CATALOG NUMBER: ARCH-L-PA3-240-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3761.6	3761.6	3761.6	3761.6	3761.6	3761.6	3761.6	3761.6	3761.6	3761.6	3761.6
2.5°	3781.4	3674.6	3461.0	3290.9	3116.9	3018.0	2895.4	2836.1	2824.2	2792.5	2816.3
5°	3848.7	3639.0	3235.6	2970.5	2792.5	2705.5	2662.0	2646.2	2642.2	2634.3	2634.3
7.5°	3939.6	3619.2	3093.2	2824.2	2709.5	2681.8	2693.7	2717.4	2721.3	2729.3	2725.3
10°	4050.4	3623.2	3014.1	2788.6	2733.2	2737.2	2776.7	2808.4	2824.2	2836.1	2832.1
12.5°	4204.6	3670.7	3002.2	2812.3	2788.6	2804.4	2844.0	2875.6	2891.4	2895.4	2895.4
15°	4406.4	3769.5	3029.9	2863.7	2844.0	2855.8	2879.6	2891.4	2895.4	2891.4	2891.4
17.5°	4627.9	3888.2	3069.4	2895.4	2863.7	2851.9	2844.0	2832.1	2808.4	2792.5	2792.5
20°	4841.5	3995.0	3089.2	2891.4	2836.1	2788.6	2741.1	2681.8	2642.2	2610.6	2610.6
22.5°	5055.1	4093.9	3089.2	2847.9	2760.9	2669.9	2571.0	2476.1	2416.8	2377.2	2377.2
25°	5280.5	4188.8	3065.5	2772.8	2642.2	2511.7	2377.2	2258.6	2199.2	2159.7	2151.8
27.5°	5470.4	4244.2	3002.2	2666.0	2495.9	2329.8	2175.5	2052.9	2009.4	1973.8	1973.8
30°	5672.1	4279.8	2883.5	2527.5	2329.8	2139.9	1981.7	1882.8	1835.3	1783.9	1780.0
32.5°	5897.6	4303.5	2749.0	2381.2	2159.7	1957.9	1823.5	1744.4	1641.5	1586.1	1578.2
35°	6158.6	4335.2	2606.6	2215.1	1989.6	1807.6	1728.5	1598.0	1499.1	1451.7	1447.7
37.5°	6435.5	4358.9	2452.4	2068.7	1835.3	1708.8	1629.6	1475.4	1388.4	1317.2	1309.3
40°	6728.2	4358.9	2294.2	1926.3	1712.7	1665.2	1514.9	1376.5	1230.1	1194.5	1186.6
42.5°	7052.6	4351.0	2135.9	1787.9	1598.0	1566.4	1447.7	1301.3	1226.2	1194.5	1186.6
45°	7396.7	4323.3	1985.6	1629.6	1479.3	1416.1	1325.1	1285.5	1253.9	1253.9	1253.9
47.5°	7788.3	4299.6	1815.6	1487.2	1392.3	1321.1	1253.9	1230.1	1226.2	1238.1	1249.9
50°	8290.6	4291.7	1673.2	1384.4	1325.1	1242.0	1234.1	1214.3	1218.3	1218.3	1218.3
52.5°	8899.8	4220.5	1538.7	1309.3	1257.8	1158.9	1182.7	1202.5	1210.4	1206.4	1202.5
55°	9346.7	4093.9	1424.0	1257.8	1210.4	1127.3	1158.9	1190.6	1198.5	1186.6	1186.6
57.5°	9750.2	3915.9	1333.0	1218.3	1178.7	1107.5	1143.1	1174.8	1166.9	1162.9	1158.9
60°	10213.0	3745.8	1261.8	1198.5	1147.1	1099.6	1131.3	1151.0	1139.2	1131.3	1127.3
62.5°	10715.3	3579.7	1210.4	1198.5	1123.3	1095.7	1119.4	1127.3	1103.6	1095.7	1095.7
65°	10948.7	3318.6	1155.0	1198.5	1111.5	1087.7	1095.7	1087.7	1064.0	1064.0	1060.1
67.5°	10565.0	2887.5	1083.8	1182.7	1127.3	1075.9	1060.1	1048.2	1020.5	1020.5	1012.6
70°	9504.9	2373.3	981.0	1131.3	1131.3	1071.9	1012.6	984.9	953.3	965.1	949.3
72.5°	8120.5	1882.8	854.4	1044.2	1107.5	1068.0	961.2	917.7	890.0	901.8	878.1
75°	6577.9	1459.6	704.1	905.8	1048.2	1048.2	909.8	850.4	818.8	818.8	791.1
77.5°	4192.8	1079.8	573.5	751.5	941.4	1020.5	866.2	775.3	727.8	715.9	696.2
80°	2076.6	759.4	470.7	597.3	803.0	957.2	834.6	688.2	621.0	597.3	561.7
82.5°	1103.6	526.1	375.8	466.7	640.8	862.3	795.0	593.3	510.3	474.7	435.1
85°	494.4	324.3	300.6	356.0	486.5	708.0	715.9	486.5	391.6	466.7	344.1
87.5°	182.0	146.4	146.4	182.0	280.8	296.7	506.3	312.5	249.2	170.1	134.5
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)