

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: P399202

Luminaire Tested: **ARCH-L-PA3-110-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399202
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-PA3-110-730-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16769 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

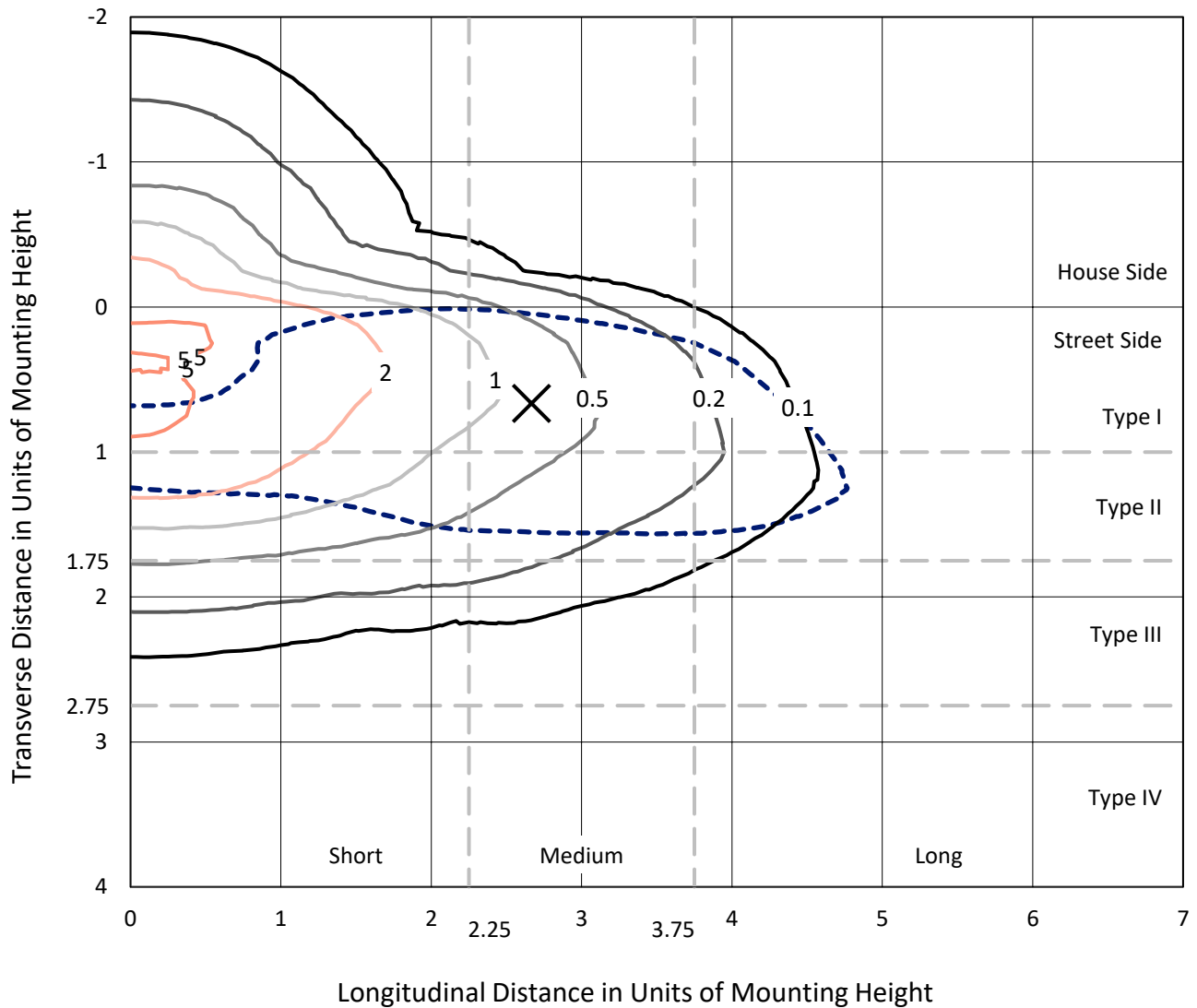
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399202
 CATALOG NUMBER: ARCH-L-PA3-110-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

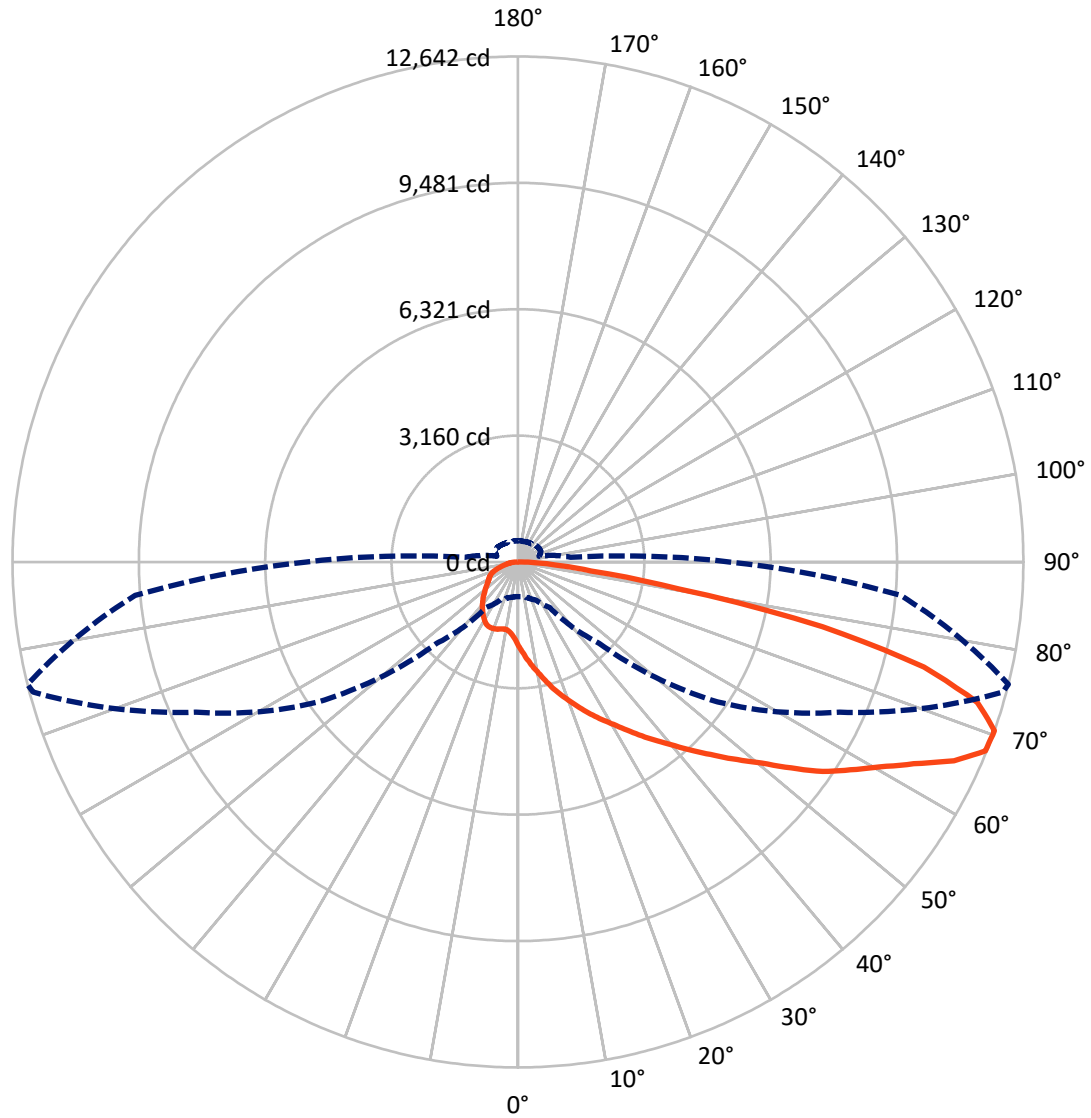
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P399202
CATALOG NUMBER: ARCH-L-PA3-110-730-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399202
 CATALOG NUMBER: ARCH-L-PA3-110-730-U-T2R

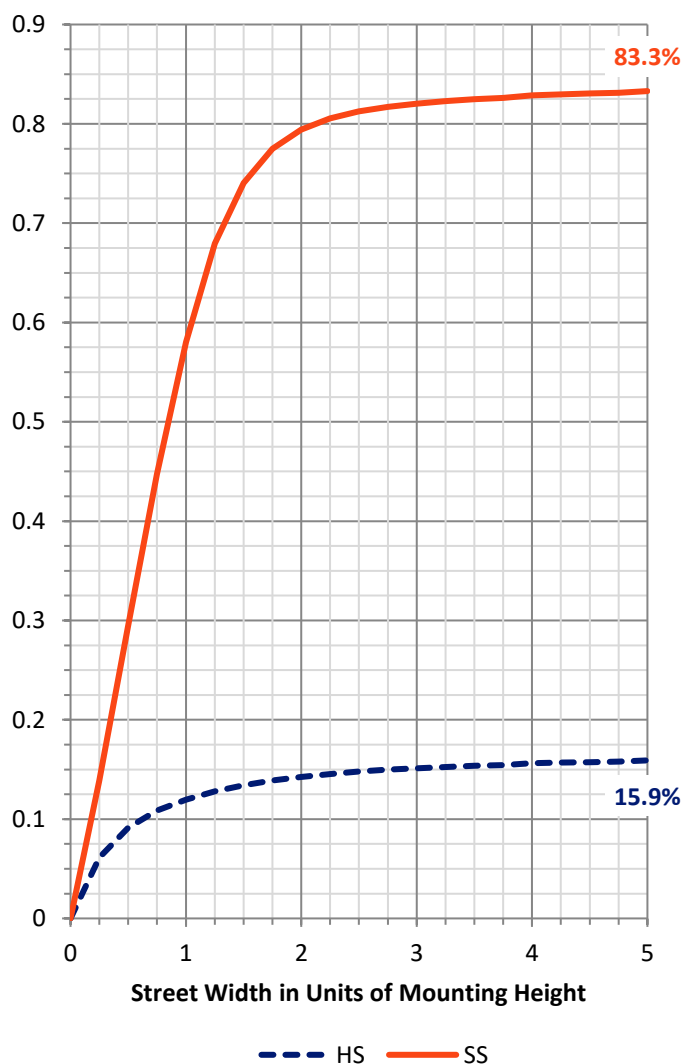
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2737.7	0.0	2737.7
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	14031.3	0.0	14031.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	16769.0	0.0	16769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.9	1.3
10°-20°	740.5	4.4
20°-30°	1324.9	7.9
30°-40°	2143.3	12.8
40°-50°	3100.5	18.5
50°-60°	3548.8	21.2
60°-70°	3264.5	19.5
70°-80°	2018.7	12.0
80°-90°	409.9	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°	16769.0	100.0
0°-180°	16769.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399202

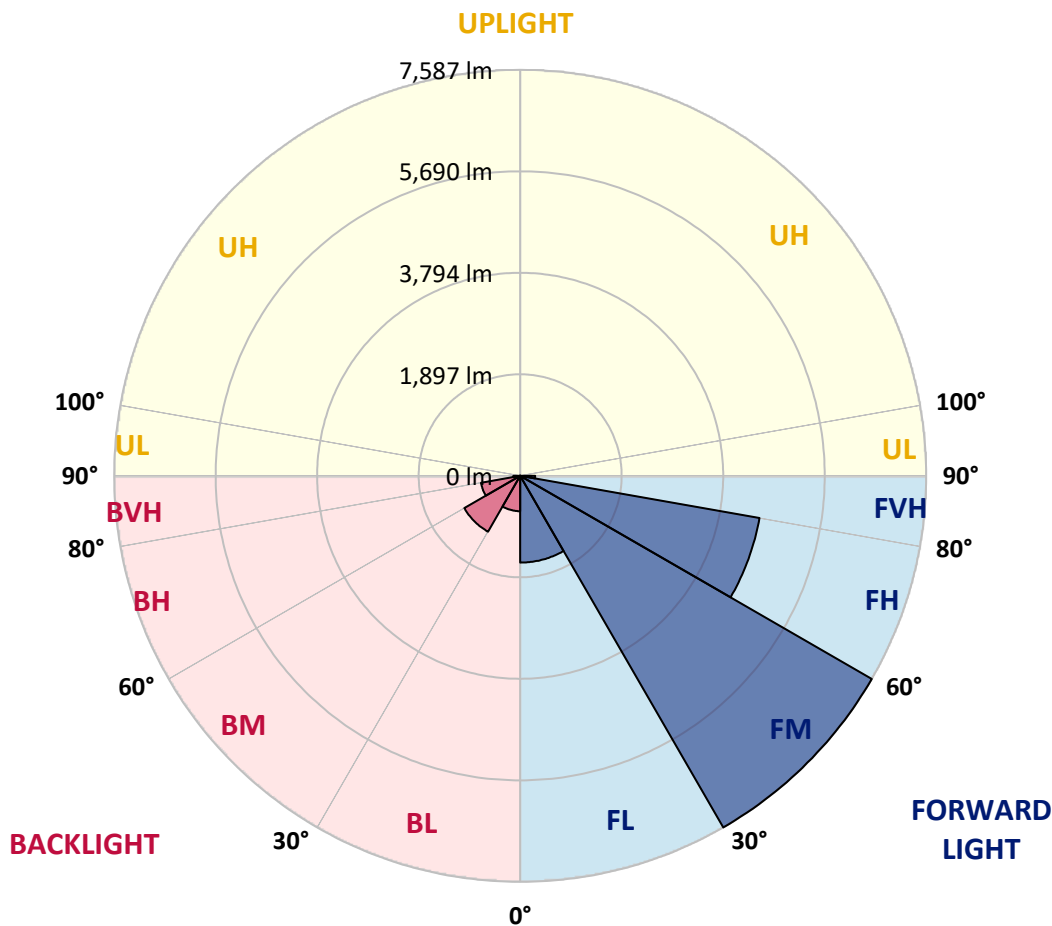
CATALOG NUMBER: ARCH-L-PA3-110-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1622.1	9.7			
FM (30°-60°)	7587.2	45.2			
FH (60°-80°)	4540.6	27.1			G2/5000
FVH (80°-90°)	281.4	1.7			G3/500
BL (0°-30°)	661.2	3.9	B2/1000		
BM (30°-60°)	1205.4	7.2	B2/2500		
BH (60°-80°)	742.6	4.4	B2/1000		G2/1000
BVH (80°-90°)	128.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





REPORT NUMBER: P399202

CATALOG NUMBER: ARCH-L-PA3-110-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0
2.5°	2672.6	2652.7	2650.5	2619.6	2591.0	2513.8	2458.7	2361.6	2264.6	2262.4	2165.4
5°	3089.3	3069.5	3058.5	3021.0	2972.5	2871.0	2771.8	2621.8	2456.5	2445.4	2262.4
7.5°	3371.6	3353.9	3331.9	3316.4	3270.1	3179.7	3058.5	2879.8	2652.7	2630.7	2374.9
10°	3561.2	3550.2	3545.8	3534.8	3506.1	3433.3	3316.4	3126.8	2849.0	2824.7	2494.0
12.5°	3642.8	3638.4	3658.2	3689.1	3700.1	3671.5	3559.0	3380.4	3065.1	3038.6	2637.3
15°	3548.0	3552.4	3603.1	3709.0	3821.4	3883.2	3817.0	3642.8	3309.8	3272.3	2804.9
17.5°	3503.9	3510.5	3545.8	3647.2	3806.0	3997.8	4028.7	3892.0	3545.8	3492.9	2981.3
20°	3581.1	3589.9	3616.3	3695.7	3806.0	4011.0	4172.0	4130.1	3777.3	3722.2	3151.1
22.5°	3777.3	3788.3	3786.1	3836.8	3911.8	4052.9	4251.4	4355.0	4019.9	3958.1	3327.5
25°	4196.3	4187.5	4112.5	4088.2	4108.1	4198.5	4357.2	4571.1	4273.5	4211.7	3512.7
27.5°	4765.2	4754.2	4617.4	4494.0	4383.7	4423.4	4507.2	4745.3	4531.4	4460.9	3689.1
30°	5373.8	5360.6	5201.8	5001.1	4756.4	4699.0	4688.0	4897.5	4791.6	4716.7	3876.5
32.5°	5967.0	5955.9	5786.1	5552.4	5215.0	5043.0	4937.2	5067.3	5087.1	5014.4	4081.6
35°	6507.2	6507.2	6361.7	6083.8	5702.3	5442.1	5267.9	5276.8	5426.7	5342.9	4315.4
37.5°	6987.9	6985.7	6826.9	6553.5	6187.5	5889.8	5673.7	5530.4	5750.9	5678.1	4560.1
40°	7369.4	7354.0	7237.1	6998.9	6630.7	6335.2	6116.9	5828.0	6112.5	6046.3	4820.3
42.5°	7647.2	7638.4	7559.0	7351.8	7001.1	6723.3	6573.4	6202.9	6522.6	6456.5	5124.6
45°	7755.3	7772.9	7772.9	7576.7	7298.8	7045.2	6979.1	6615.3	6965.9	6899.7	5451.0
47.5°	7581.1	7627.4	7722.2	7735.4	7490.7	7318.7	7340.7	7029.8	7422.3	7387.0	5808.2
50°	7036.4	7122.4	7329.7	7704.6	7567.8	7528.2	7649.4	7453.2	7911.8	7900.8	6242.6
52.5°	5631.8	5841.3	6487.4	7159.9	7514.9	7625.2	7955.9	7929.5	8542.5	8560.1	6809.3
55°	4319.8	4399.1	5146.7	6291.1	7190.8	7594.3	8161.0	8394.8	9226.1	9248.1	7329.7
57.5°	3492.9	3545.8	3953.7	5146.7	6452.1	7426.7	8322.0	8666.0	9750.9	9808.2	7792.8
60°	2767.4	2844.6	3118.0	3938.3	5417.9	7023.2	8434.4	8968.1	10315.4	10401.4	8346.2
62.5°	2057.3	2094.8	2352.8	2917.3	4288.9	6297.7	8374.9	9296.6	11007.8	11111.4	9012.2
65°	1464.2	1497.3	1680.3	2075.0	3170.9	5316.5	8028.7	9541.4	11876.6	11982.4	9682.5
67.5°	1095.9	1109.2	1212.8	1450.9	2136.7	4130.1	7327.5	9499.5	12511.6	12606.5	9951.5
70°	866.6	871.0	921.7	1049.6	1389.2	2875.4	6099.3	8884.3	12558.0	12641.7	9612.0
72.5°	718.9	716.7	745.3	807.1	968.0	1819.2	4518.2	7742.1	11962.6	12019.9	8663.8
75°	593.2	597.6	617.4	652.7	738.7	1199.6	2928.4	6176.4	10553.5	10491.8	7270.2
77.5°	498.3	496.1	505.0	535.8	597.6	862.2	1715.6	4463.1	7821.4	7790.6	4771.8
80°	401.3	405.7	419.0	445.4	502.8	657.1	1014.3	2785.0	4196.3	4083.8	2280.1
82.5°	269.0	310.9	337.4	368.2	434.4	485.1	643.9	1415.7	1876.5	1847.9	1034.2
85°	127.9	169.8	251.4	286.7	352.8	304.3	436.6	674.8	939.4	928.3	372.7
87.5°	26.5	26.5	134.5	161.0	218.3	130.1	242.6	293.3	454.2	425.6	152.2
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: P399202

CATALOG NUMBER: ARCH-L-PA3-110-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0
2.5°	2108.1	2048.5	1929.4	1834.6	1737.6	1682.5	1614.1	1581.0	1574.4	1556.8	1570.0
5°	2145.5	2028.7	1803.8	1656.0	1556.8	1508.3	1484.0	1475.2	1473.0	1468.6	1468.6
7.5°	2196.3	2017.7	1724.4	1574.4	1510.5	1495.0	1501.7	1514.9	1517.1	1521.5	1519.3
10°	2258.0	2019.9	1680.3	1554.6	1523.7	1525.9	1548.0	1565.6	1574.4	1581.0	1578.8
12.5°	2344.0	2046.3	1673.7	1567.8	1554.6	1563.4	1585.5	1603.1	1611.9	1614.1	1614.1
15°	2456.5	2101.4	1689.1	1596.5	1585.5	1592.1	1605.3	1611.9	1614.1	1611.9	1611.9
17.5°	2579.9	2167.6	1711.1	1614.1	1596.5	1589.9	1585.5	1578.8	1565.6	1556.8	1556.8
20°	2699.0	2227.1	1722.2	1611.9	1581.0	1554.6	1528.1	1495.0	1473.0	1455.4	1455.4
22.5°	2818.1	2282.3	1722.2	1587.7	1539.1	1488.4	1433.3	1380.4	1347.3	1325.3	1325.3
25°	2943.8	2335.2	1708.9	1545.8	1473.0	1400.2	1325.3	1259.1	1226.0	1204.0	1199.6
27.5°	3049.6	2366.1	1673.7	1486.2	1391.4	1298.8	1212.8	1144.4	1120.2	1100.3	1100.3
30°	3162.1	2385.9	1607.5	1409.0	1298.8	1193.0	1104.7	1049.6	1023.2	994.5	992.3
32.5°	3287.8	2399.1	1532.5	1327.5	1204.0	1091.5	1016.5	972.4	915.1	884.2	879.8
35°	3433.3	2416.8	1453.2	1234.8	1109.2	1007.7	963.6	890.9	835.7	809.3	807.1
37.5°	3587.7	2430.0	1367.2	1153.3	1023.2	952.6	908.5	822.5	774.0	734.3	729.9
40°	3750.8	2430.0	1278.9	1073.9	954.8	928.3	844.5	767.4	685.8	665.9	661.5
42.5°	3931.7	2425.6	1190.7	996.7	890.9	873.2	807.1	725.5	683.6	665.9	661.5
45°	4123.5	2410.2	1107.0	908.5	824.7	789.4	738.7	716.7	699.0	699.0	699.0
47.5°	4341.8	2396.9	1012.1	829.1	776.2	736.5	699.0	685.8	683.6	690.2	696.8
50°	4621.9	2392.5	932.8	771.8	738.7	692.4	688.0	677.0	679.2	679.2	679.2
52.5°	4961.4	2352.8	857.8	729.9	701.2	646.1	659.3	670.3	674.8	672.6	670.3
55°	5210.6	2282.3	793.8	701.2	674.8	628.4	646.1	663.7	668.1	661.5	661.5
57.5°	5435.5	2183.0	743.1	679.2	657.1	617.4	637.3	654.9	650.5	648.3	646.1
60°	5693.5	2088.2	703.4	668.1	639.5	613.0	630.7	641.7	635.1	630.7	628.4
62.5°	5973.6	1995.6	674.8	668.1	626.2	610.8	624.0	628.4	615.2	610.8	610.8
65°	6103.7	1850.1	643.9	668.1	619.6	606.4	610.8	606.4	593.2	593.2	591.0
67.5°	5889.8	1609.7	604.2	659.3	628.4	599.8	591.0	584.3	568.9	568.9	564.5
70°	5298.8	1323.1	546.9	630.7	630.7	597.6	564.5	549.1	531.4	538.0	529.2
72.5°	4527.0	1049.6	476.3	582.1	617.4	595.4	535.8	511.6	496.1	502.8	489.5
75°	3667.1	813.7	392.5	505.0	584.3	584.3	507.2	474.1	456.5	456.5	441.0
77.5°	2337.4	602.0	319.7	419.0	524.8	568.9	482.9	432.2	405.7	399.1	388.1
80°	1157.7	423.4	262.4	333.0	447.6	533.6	465.3	383.7	346.2	333.0	313.1
82.5°	615.2	293.3	209.5	260.2	357.2	480.7	443.2	330.8	284.5	264.6	242.6
85°	275.6	180.8	167.6	198.5	271.2	394.7	399.1	271.2	218.3	260.2	191.8
87.5°	101.4	81.6	81.6	101.4	156.6	165.4	282.3	174.2	138.9	94.8	75.0
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)