

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: P399274

Luminaire Tested: **ARCH-L-PA3-120-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399274
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-PA3-120-730-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18074 lumens
Efficiency: N/A
Efficacy: 146.9 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

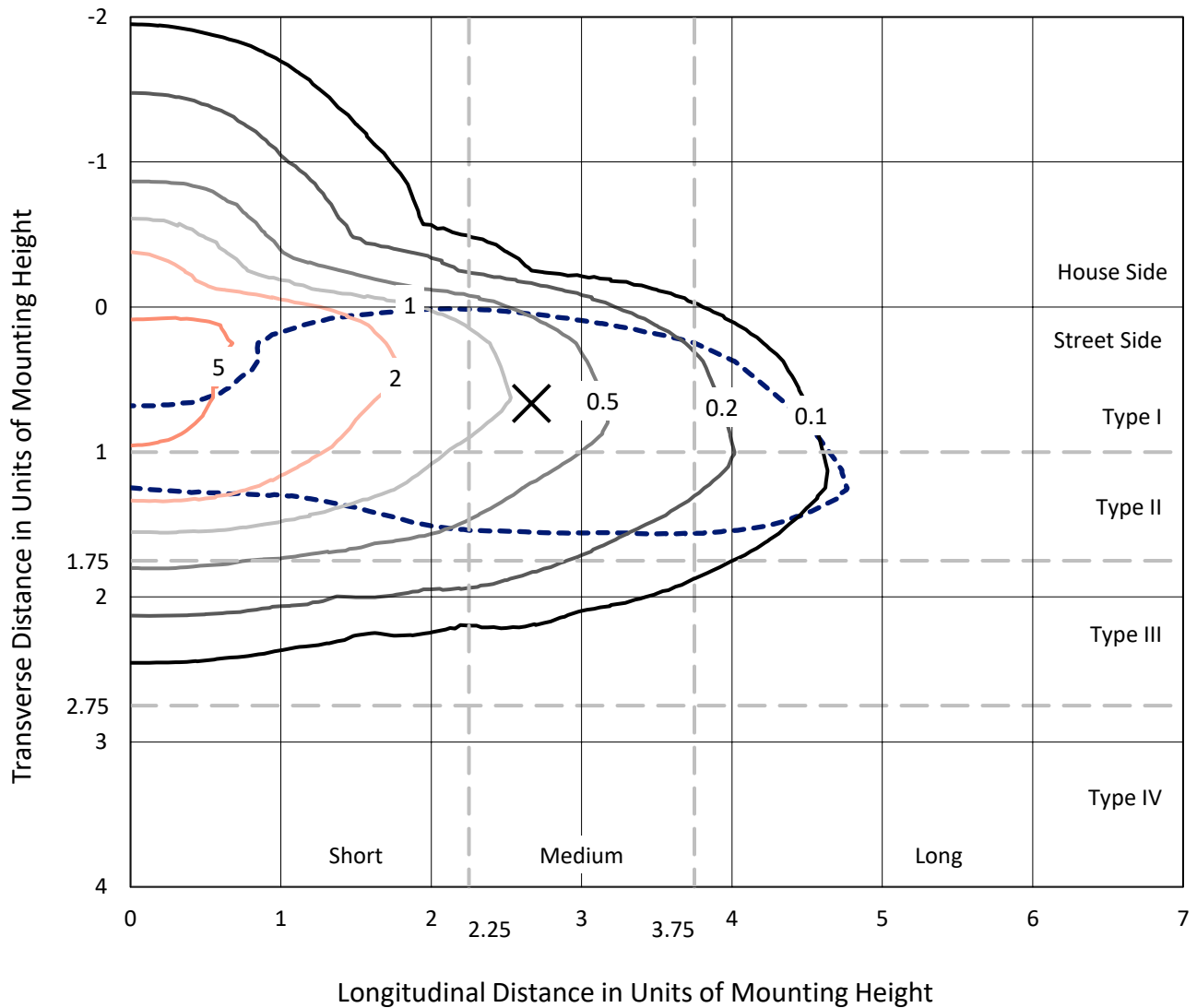
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399274
 CATALOG NUMBER: ARCH-L-PA3-120-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

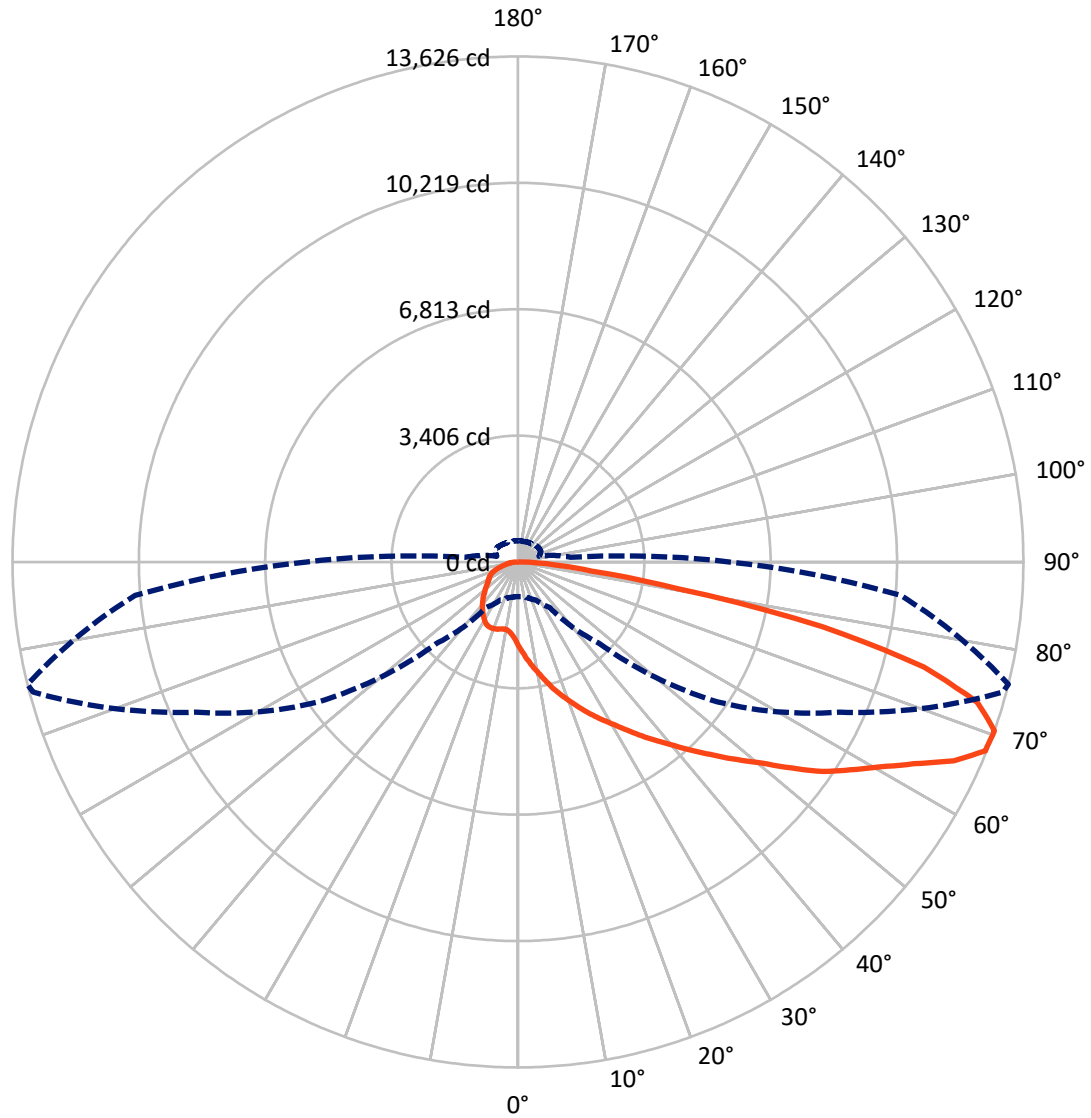
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P399274
CATALOG NUMBER: ARCH-L-PA3-120-730-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399274
 CATALOG NUMBER: ARCH-L-PA3-120-730-U-T2R

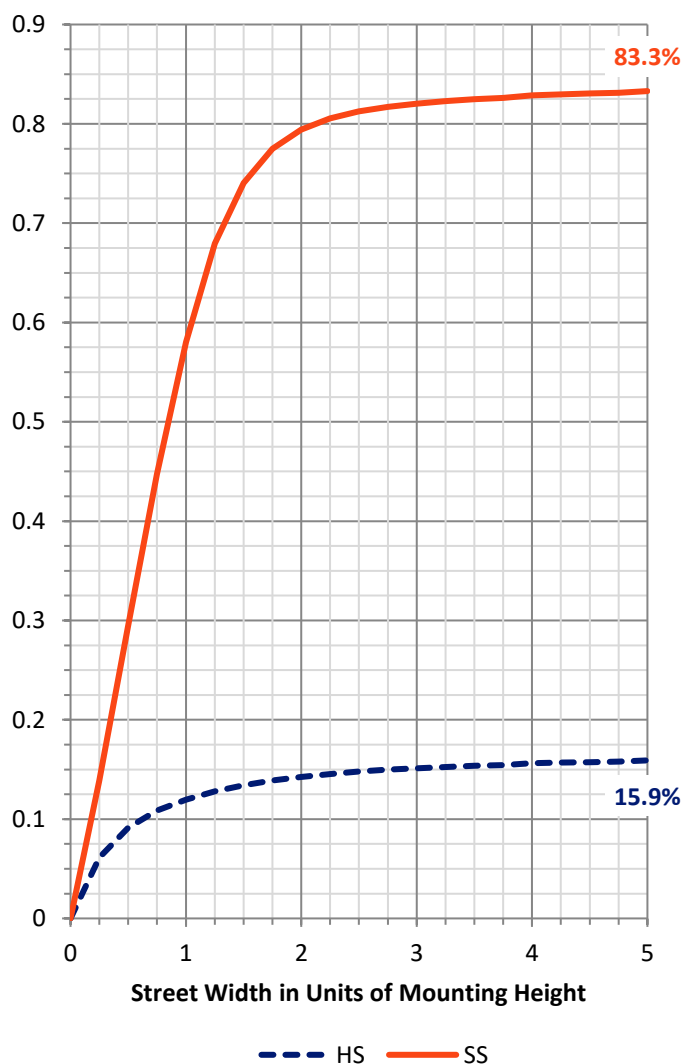
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2950.8	0.0	2950.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	15123.2	0.0	15123.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	18074.0	0.0	18074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	1.3
10°-20°	798.2	4.4
20°-30°	1428.0	7.9
30°-40°	2310.0	12.8
40°-50°	3341.8	18.5
50°-60°	3824.9	21.2
60°-70°	3518.5	19.5
70°-80°	2175.8	12.0
80°-90°	441.8	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°	18074.0	100.0
0°-180°	18074.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399274

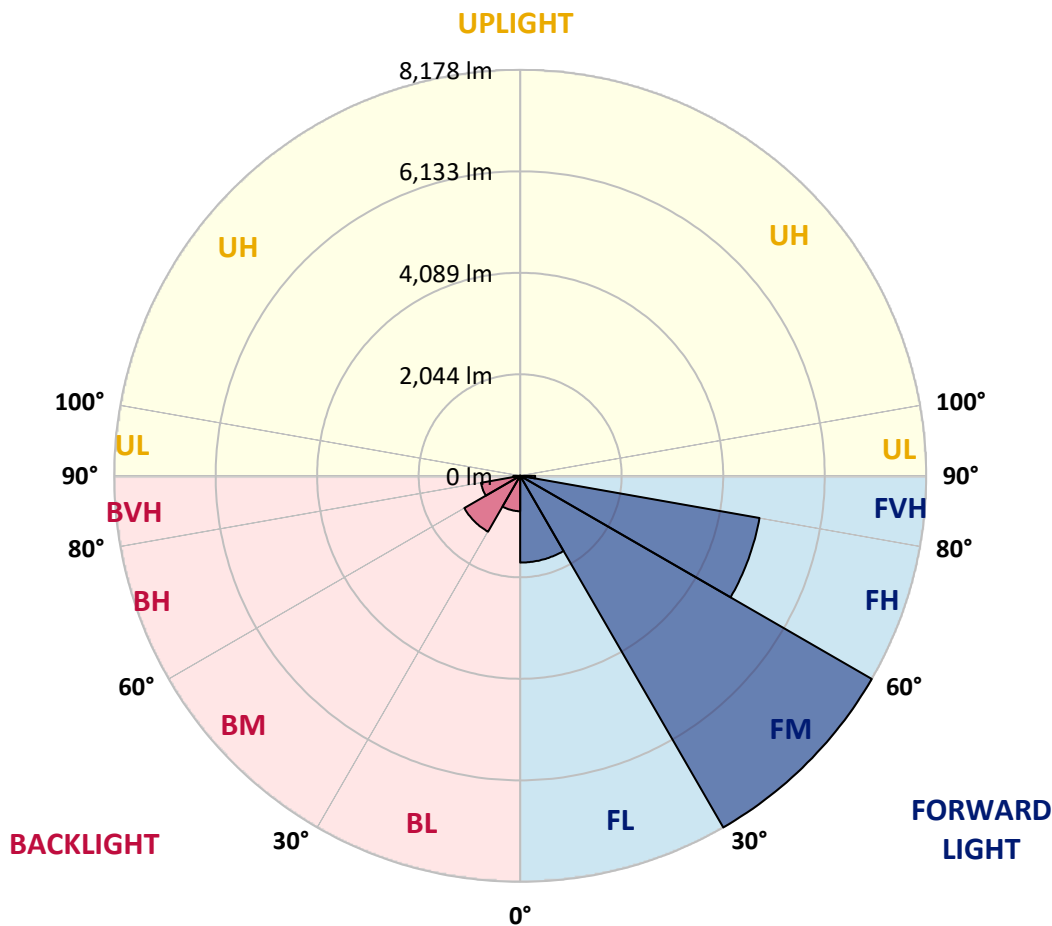
CATALOG NUMBER: ARCH-L-PA3-120-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1748.4	9.7			
FM (30°-60°)	8177.6	45.2			
FH (60°-80°)	4893.9	27.1			G2/5000
FVH (80°-90°)	303.3	1.7			G3/500
BL (0°-30°)	712.7	3.9	B2/1000		
BM (30°-60°)	1299.2	7.2	B2/2500		
BH (60°-80°)	800.3	4.4	B2/1000		G2/1000
BVH (80°-90°)	138.5	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: P399274

CATALOG NUMBER: ARCH-L-PA3-120-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2260.2	2260.2	2260.2	2260.2	2260.2	2260.2	2260.2	2260.2	2260.2	2260.2	2260.2
2.5°	2880.5	2859.2	2856.8	2823.5	2792.6	2709.4	2650.0	2545.4	2440.9	2438.5	2333.9
5°	3329.7	3308.4	3296.5	3256.1	3203.8	3094.4	2987.5	2825.9	2647.6	2635.7	2438.5
7.5°	3634.0	3614.9	3591.2	3574.5	3524.6	3427.2	3296.5	3104.0	2859.2	2835.4	2559.7
10°	3838.4	3826.5	3821.7	3809.8	3778.9	3700.5	3574.5	3370.1	3070.7	3044.5	2688.0
12.5°	3926.3	3921.5	3942.9	3976.2	3988.1	3957.2	3836.0	3643.5	3303.6	3275.1	2842.5
15°	3824.1	3828.8	3883.5	3997.6	4118.8	4185.3	4114.0	3926.3	3567.4	3527.0	3023.1
17.5°	3776.6	3783.7	3821.7	3931.0	4102.2	4308.9	4342.2	4194.9	3821.7	3764.7	3213.3
20°	3859.7	3869.2	3897.8	3983.3	4102.2	4323.2	4496.7	4451.5	4071.3	4011.9	3396.3
22.5°	4071.3	4083.2	4080.8	4135.4	4216.2	4368.4	4582.3	4694.0	4332.7	4266.2	3586.4
25°	4522.8	4513.3	4432.5	4406.4	4427.8	4525.2	4696.3	4926.9	4606.0	4539.5	3786.1
27.5°	5136.0	5124.1	4976.8	4843.7	4724.9	4767.6	4858.0	5114.6	4884.1	4808.0	3976.2
30°	5792.0	5777.7	5606.6	5390.3	5126.5	5064.7	5052.8	5278.6	5164.5	5083.7	4178.2
32.5°	6431.3	6419.4	6236.4	5984.5	5620.9	5435.5	5321.4	5461.6	5483.0	5404.6	4399.3
35°	7013.6	7013.6	6856.7	6557.3	6146.1	5865.7	5677.9	5687.4	5849.0	5758.7	4651.2
37.5°	7531.7	7529.4	7358.2	7063.5	6669.0	6348.1	6115.2	5960.7	6198.4	6120.0	4915.0
40°	7942.9	7926.3	7800.3	7543.6	7146.7	6828.2	6592.9	6281.6	6588.2	6516.9	5195.4
42.5°	8242.4	8232.8	8147.3	7923.9	7546.0	7246.5	7084.9	6685.6	7030.2	6958.9	5523.4
45°	8358.8	8377.8	8377.8	8166.3	7866.8	7593.5	7522.2	7130.1	7508.0	7436.7	5875.2
47.5°	8171.1	8221.0	8323.2	8337.4	8073.6	7888.2	7912.0	7576.9	7999.9	7961.9	6260.2
50°	7584.0	7676.7	7900.1	8304.2	8156.8	8114.0	8244.7	8033.2	8527.6	8515.7	6728.4
52.5°	6070.1	6295.8	6992.2	7717.1	8099.8	8218.6	8575.1	8546.6	9207.3	9226.3	7339.2
55°	4655.9	4741.5	5547.2	6780.7	7750.4	8185.3	8796.1	9048.1	9944.1	9967.8	7900.1
57.5°	3764.7	3821.7	4261.4	5547.2	6954.2	8004.7	8969.6	9340.4	10509.7	10571.5	8399.2
60°	2982.7	3065.9	3360.6	4244.8	5839.5	7569.8	9090.8	9666.0	11118.2	11210.8	8995.8
62.5°	2217.5	2257.9	2535.9	3144.4	4622.7	6787.8	9026.7	10020.1	11864.4	11976.1	9713.5
65°	1578.1	1613.8	1811.0	2236.5	3417.7	5730.2	8653.5	10283.9	12800.8	12914.9	10436.0
67.5°	1181.2	1195.5	1307.2	1563.9	2303.0	4451.5	7897.7	10238.8	13485.3	13587.5	10726.0
70°	934.0	938.8	993.5	1131.3	1497.3	3099.2	6573.9	9575.7	13535.2	13625.6	10360.0
72.5°	774.8	772.4	803.3	869.9	1043.4	1960.8	4869.8	8344.6	12893.5	12955.3	9338.0
75°	639.3	644.1	665.5	703.5	796.2	1292.9	3156.2	6657.1	11374.8	11308.3	7835.9
77.5°	537.1	534.8	544.3	577.5	644.1	929.3	1849.1	4810.4	8430.1	8396.8	5143.2
80°	432.6	437.3	451.6	480.1	541.9	708.3	1093.3	3001.8	4522.8	4401.6	2457.5
82.5°	290.0	335.1	363.6	396.9	468.2	522.9	694.0	1525.8	2022.6	1991.7	1114.7
85°	137.8	183.0	270.9	309.0	380.3	328.0	470.6	727.3	1012.5	1000.6	401.7
87.5°	28.5	28.5	145.0	173.5	235.3	140.2	261.4	316.1	489.6	458.7	164.0
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: P399274

CATALOG NUMBER: ARCH-L-PA3-120-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2260.2	2260.2	2260.2	2260.2	2260.2	2260.2	2260.2	2260.2	2260.2	2260.2	2260.2
2.5°	2272.1	2207.9	2079.6	1977.4	1872.8	1813.4	1739.7	1704.1	1697.0	1677.9	1692.2
5°	2312.5	2186.6	1944.1	1784.9	1677.9	1625.7	1599.5	1590.0	1587.6	1582.9	1582.9
7.5°	2367.2	2174.7	1858.6	1697.0	1628.0	1611.4	1618.5	1632.8	1635.2	1639.9	1637.5
10°	2433.7	2177.0	1811.0	1675.6	1642.3	1644.7	1668.4	1687.4	1697.0	1704.1	1701.7
12.5°	2526.4	2205.6	1803.9	1689.8	1675.6	1685.1	1708.8	1727.9	1737.4	1739.7	1739.7
15°	2647.6	2265.0	1820.5	1720.7	1708.8	1716.0	1730.2	1737.4	1739.7	1737.4	1737.4
17.5°	2780.7	2336.3	1844.3	1739.7	1720.7	1713.6	1708.8	1701.7	1687.4	1677.9	1677.9
20°	2909.1	2400.5	1856.2	1737.4	1704.1	1675.6	1647.0	1611.4	1587.6	1568.6	1568.6
22.5°	3037.4	2459.9	1856.2	1711.2	1658.9	1604.3	1544.8	1487.8	1452.2	1428.4	1428.4
25°	3172.9	2516.9	1841.9	1666.1	1587.6	1509.2	1428.4	1357.1	1321.4	1297.7	1292.9
27.5°	3287.0	2550.2	1803.9	1601.9	1499.7	1399.9	1307.2	1233.5	1207.4	1186.0	1186.0
30°	3408.2	2571.6	1732.6	1518.7	1399.9	1285.8	1190.7	1131.3	1102.8	1071.9	1069.5
32.5°	3543.6	2585.8	1651.8	1430.8	1297.7	1176.5	1095.7	1048.1	986.3	953.1	948.3
35°	3700.5	2604.9	1566.2	1330.9	1195.5	1086.1	1038.6	960.2	900.8	872.2	869.9
37.5°	3866.9	2619.1	1473.5	1243.0	1102.8	1026.7	979.2	886.5	834.2	791.4	786.7
40°	4042.7	2619.1	1378.5	1157.4	1029.1	1000.6	910.3	827.1	739.2	717.8	713.0
42.5°	4237.6	2614.4	1283.4	1074.3	960.2	941.2	869.9	781.9	736.8	717.8	713.0
45°	4444.4	2597.7	1193.1	979.2	888.9	850.9	796.2	772.4	753.4	753.4	753.4
47.5°	4679.7	2583.5	1090.9	893.6	836.6	793.8	753.4	739.2	736.8	743.9	751.0
50°	4981.5	2578.7	1005.3	831.8	796.2	746.3	741.5	729.6	732.0	732.0	732.0
52.5°	5347.5	2535.9	924.5	786.7	755.8	696.4	710.6	722.5	727.3	724.9	722.5
55°	5616.1	2459.9	855.6	755.8	727.3	677.4	696.4	715.4	720.1	713.0	713.0
57.5°	5858.5	2352.9	800.9	732.0	708.3	665.5	686.9	705.9	701.1	698.7	696.4
60°	6136.6	2250.7	758.2	720.1	689.2	660.7	679.7	691.6	684.5	679.7	677.4
62.5°	6438.4	2150.9	727.3	720.1	675.0	658.3	672.6	677.4	663.1	658.3	658.3
65°	6578.7	1994.0	694.0	720.1	667.8	653.6	658.3	653.6	639.3	639.3	637.0
67.5°	6348.1	1735.0	651.2	710.6	677.4	646.5	637.0	629.8	613.2	613.2	608.4
70°	5711.2	1426.0	589.4	679.7	679.7	644.1	608.4	591.8	572.8	579.9	570.4
72.5°	4879.3	1131.3	513.4	627.4	665.5	641.7	577.5	551.4	534.8	541.9	527.6
75°	3952.4	877.0	423.1	544.3	629.8	629.8	546.6	511.0	492.0	492.0	475.3
77.5°	2519.3	648.8	344.6	451.6	565.7	613.2	520.5	465.8	437.3	430.2	418.3
80°	1247.8	456.3	282.8	358.9	482.5	575.2	501.5	413.5	373.1	358.9	337.5
82.5°	663.1	316.1	225.8	280.4	385.0	518.1	477.7	356.5	306.6	285.2	261.4
85°	297.1	194.9	180.6	213.9	292.3	425.4	430.2	292.3	235.3	280.4	206.8
87.5°	109.3	87.9	87.9	109.3	168.7	178.3	304.2	187.8	149.7	102.2	80.8
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)