

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: P399130

Luminaire Tested: **ARCH-L-PA3-100-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399130
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-PA3-100-730-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15341 lumens
Efficiency: N/A
Efficacy: 150.4 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

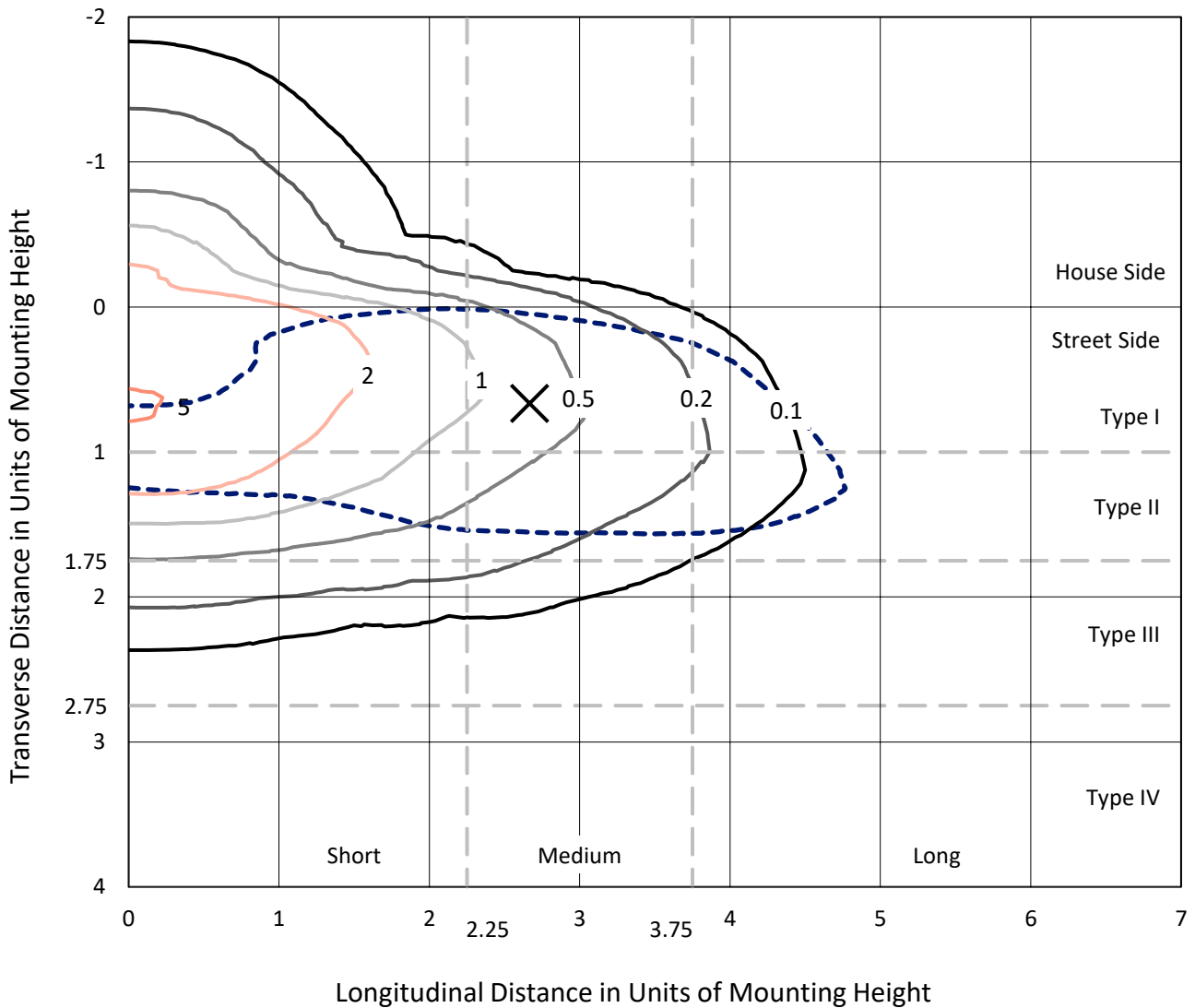
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399130
 CATALOG NUMBER: ARCH-L-PA3-100-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

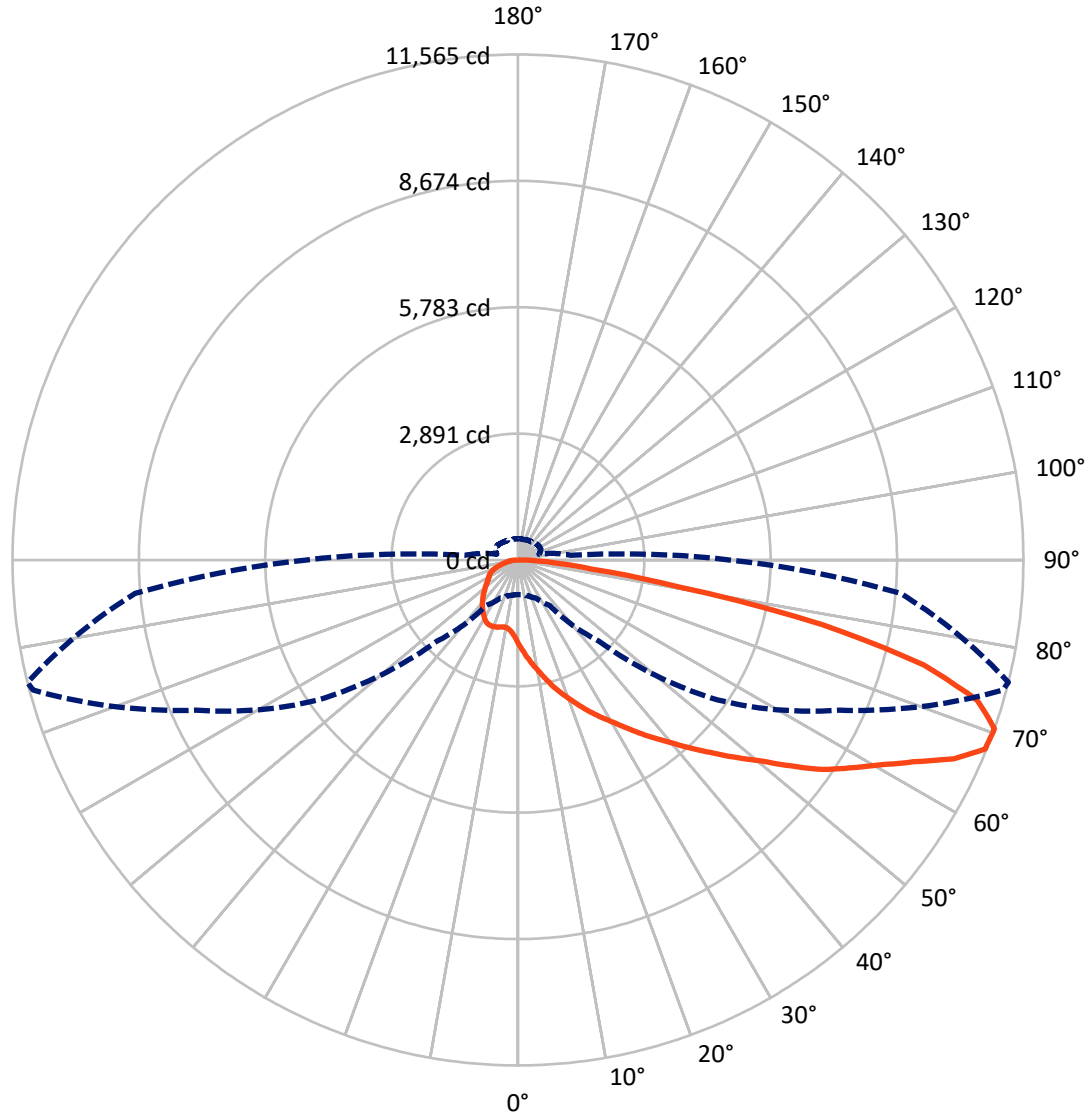
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P399130
CATALOG NUMBER: ARCH-L-PA3-100-730-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399130
 CATALOG NUMBER: ARCH-L-PA3-100-730-U-T2R

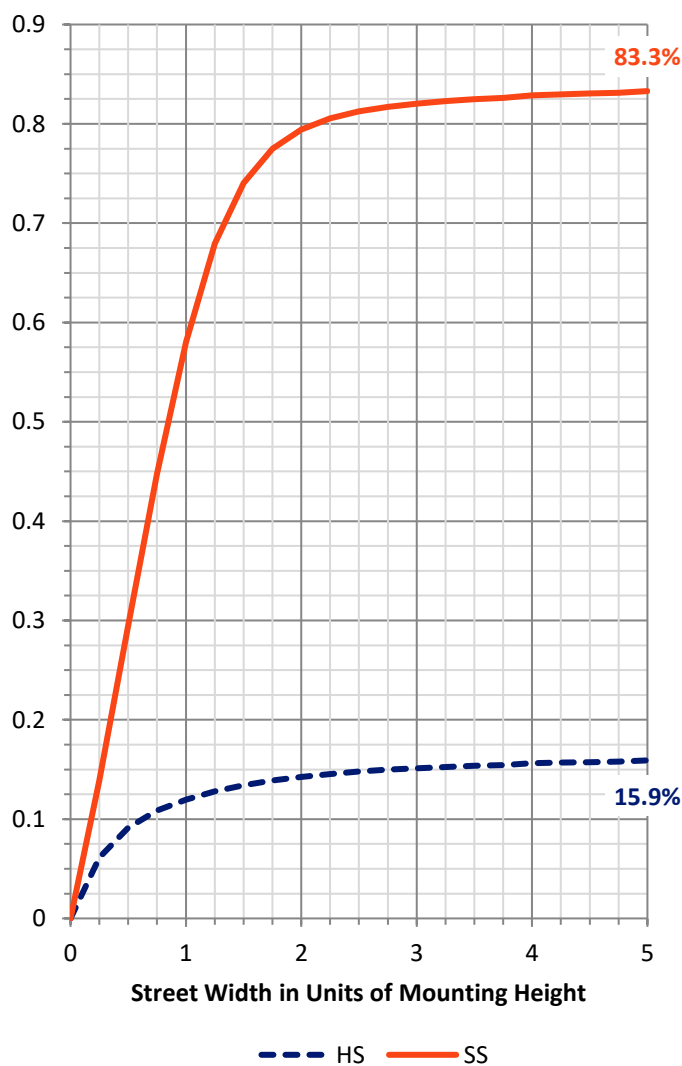
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2504.6	0.0	2504.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	12836.4	0.0	12836.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	15341.0	0.0	15341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	1.3
10°-20°	677.5	4.4
20°-30°	1212.1	7.9
30°-40°	1960.7	12.8
40°-50°	2836.5	18.5
50°-60°	3246.6	21.2
60°-70°	2986.5	19.5
70°-80°	1846.8	12.0
80°-90°	375.0	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°	15341.0	100.0
0°-180°	15341.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399130

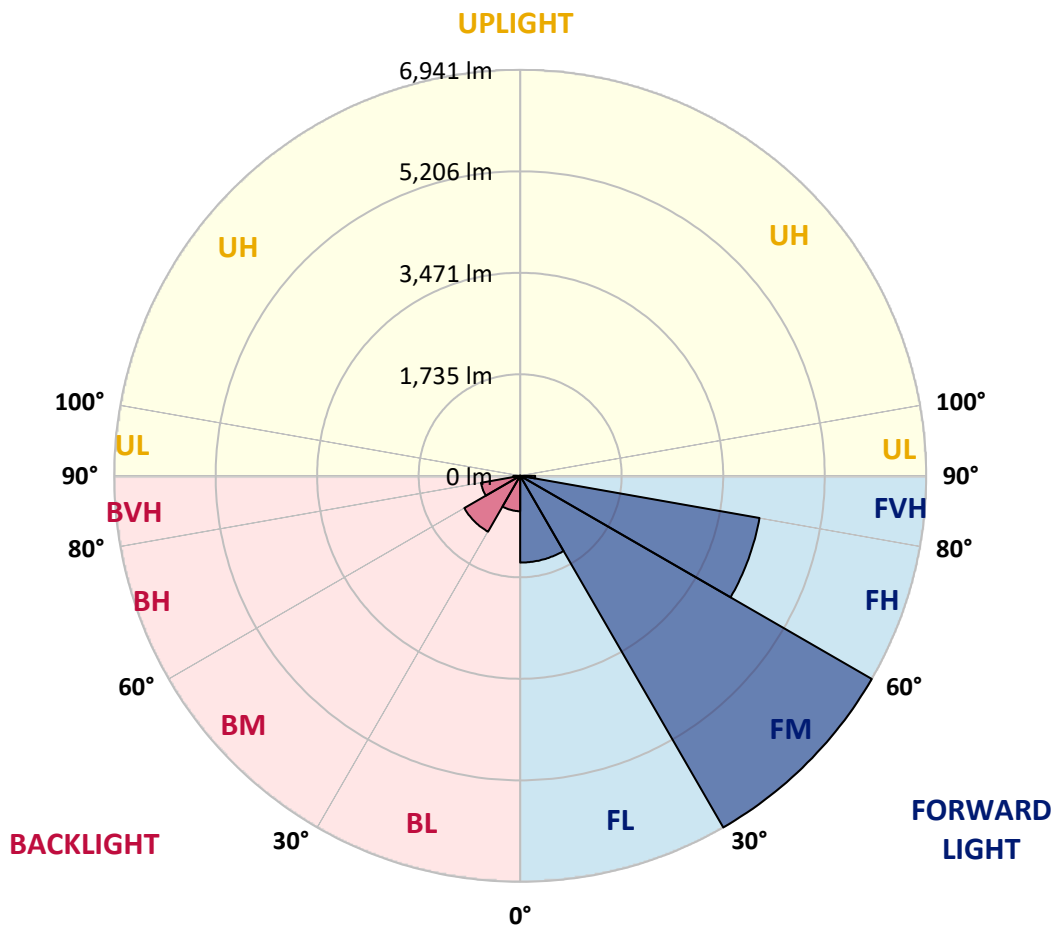
CATALOG NUMBER: ARCH-L-PA3-100-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1484.0	9.7			
FM (30°-60°)	6941.1	45.2			
FH (60°-80°)	4153.9	27.1			G2/5000
FVH (80°-90°)	257.4	1.7			G3/500
BL (0°-30°)	604.9	3.9	B2/1000		
BM (30°-60°)	1102.7	7.2	B2/2500		
BH (60°-80°)	679.3	4.4	B2/1000		G2/1000
BVH (80°-90°)	117.6	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: P399130

CATALOG NUMBER: ARCH-L-PA3-100-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5
2.5°	2445.0	2426.8	2424.8	2396.6	2370.3	2299.7	2249.3	2160.5	2071.8	2069.8	1981.0
5°	2826.2	2808.1	2798.0	2763.7	2719.3	2626.5	2535.8	2398.6	2247.3	2237.2	2069.8
7.5°	3084.5	3068.3	3048.1	3034.0	2991.7	2909.0	2798.0	2634.6	2426.8	2406.6	2172.6
10°	3257.9	3247.9	3243.8	3233.7	3207.5	3140.9	3034.0	2860.5	2606.4	2584.2	2281.6
12.5°	3332.6	3328.6	3346.7	3375.0	3385.0	3358.8	3255.9	3092.5	2804.1	2779.8	2412.7
15°	3245.8	3249.9	3296.3	3393.1	3496.0	3552.5	3492.0	3332.6	3028.0	2993.7	2566.0
17.5°	3205.5	3211.6	3243.8	3336.6	3481.9	3657.4	3685.6	3560.5	3243.8	3195.4	2727.4
20°	3276.1	3284.2	3308.4	3381.0	3481.9	3669.5	3816.7	3778.4	3455.6	3405.2	2882.7
22.5°	3455.6	3465.7	3463.7	3510.1	3578.7	3707.8	3889.4	3984.2	3677.5	3621.1	3044.1
25°	3838.9	3830.9	3762.3	3740.1	3758.2	3840.9	3986.2	4181.9	3909.5	3853.1	3213.6
27.5°	4359.4	4349.3	4224.2	4111.3	4010.4	4046.7	4123.4	4341.2	4145.6	4081.0	3375.0
30°	4916.2	4904.1	4758.8	4575.2	4351.3	4298.9	4288.8	4480.4	4383.6	4315.0	3546.4
32.5°	5458.8	5448.7	5293.4	5079.6	4770.9	4613.6	4516.7	4635.8	4653.9	4587.4	3734.0
35°	5953.1	5953.1	5819.9	5565.7	5216.8	4978.7	4819.3	4827.4	4964.6	4887.9	3947.9
37.5°	6392.8	6390.8	6245.6	5995.4	5660.6	5388.2	5190.5	5059.4	5261.1	5194.6	4171.8
40°	6741.8	6727.7	6620.8	6402.9	6066.0	5795.7	5596.0	5331.7	5592.0	5531.5	4409.8
42.5°	6996.0	6987.9	6915.3	6725.7	6404.9	6150.8	6013.6	5674.7	5967.2	5906.7	4688.2
45°	7094.9	7111.0	7111.0	6931.5	6677.3	6445.3	6384.8	6051.9	6372.7	6312.1	4986.8
47.5°	6935.5	6977.9	7064.6	7076.7	6852.8	6695.4	6715.6	6431.2	6790.3	6758.0	5313.6
50°	6437.2	6515.9	6705.5	7048.5	6923.4	6887.1	6998.0	6818.5	7238.1	7228.0	5711.0
52.5°	5152.2	5343.8	5934.9	6550.2	6875.0	6975.8	7278.4	7254.2	7815.0	7831.2	6229.4
55°	3951.9	4024.5	4708.4	5755.4	6578.4	6947.6	7466.0	7679.9	8440.4	8460.6	6705.5
57.5°	3195.4	3243.8	3617.0	4708.4	5902.6	6794.3	7613.3	7928.0	8920.5	8973.0	7129.2
60°	2531.7	2602.3	2852.5	3602.9	4956.5	6425.1	7716.2	8204.4	9437.0	9515.6	7635.5
62.5°	1882.1	1916.4	2152.5	2668.9	3923.7	5761.4	7661.7	8505.0	10070.4	10165.2	8244.7
65°	1339.5	1369.8	1537.2	1898.3	2900.9	4863.7	7345.0	8728.9	10865.2	10962.0	8858.0
67.5°	1002.6	1014.7	1109.5	1327.4	1954.8	3778.4	6703.5	8690.6	11446.2	11532.9	9104.1
70°	792.8	796.8	843.2	960.2	1270.9	2630.6	5579.9	8127.7	11488.6	11565.2	8793.4
72.5°	657.6	655.6	681.8	738.3	885.6	1664.3	4133.5	7082.8	10943.9	10996.3	7926.0
75°	542.7	546.7	564.8	597.1	675.8	1097.4	2679.0	5650.5	9654.8	9598.3	6651.1
77.5°	455.9	453.9	462.0	490.2	546.7	788.8	1569.5	4083.0	7155.4	7127.1	4365.4
80°	367.1	371.2	383.3	407.5	459.9	601.2	928.0	2547.9	3838.9	3736.1	2085.9
82.5°	246.1	284.4	308.6	336.9	397.4	443.8	589.1	1295.1	1716.7	1690.5	946.1
85°	117.0	155.3	230.0	262.2	322.8	278.4	399.4	617.3	859.4	849.3	340.9
87.5°	24.2	24.2	123.1	147.3	199.7	119.0	221.9	268.3	415.6	389.3	139.2
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: P399130

CATALOG NUMBER: ARCH-L-PA3-100-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5
2.5°	1928.5	1874.1	1765.1	1678.4	1589.6	1539.2	1476.7	1446.4	1440.4	1424.2	1436.3
5°	1962.8	1855.9	1650.2	1515.0	1424.2	1379.8	1357.6	1349.6	1347.6	1343.5	1343.5
7.5°	2009.2	1845.8	1577.5	1440.4	1381.9	1367.7	1373.8	1385.9	1387.9	1391.9	1389.9
10°	2065.7	1847.9	1537.2	1422.2	1394.0	1396.0	1416.1	1432.3	1440.4	1446.4	1444.4
12.5°	2144.4	1872.1	1531.1	1434.3	1422.2	1430.3	1450.4	1466.6	1474.7	1476.7	1476.7
15°	2247.3	1922.5	1545.3	1460.5	1450.4	1456.5	1468.6	1474.7	1476.7	1474.7	1474.7
17.5°	2360.2	1983.0	1565.4	1476.7	1460.5	1454.5	1450.4	1444.4	1432.3	1424.2	1424.2
20°	2469.2	2037.5	1575.5	1474.7	1446.4	1422.2	1398.0	1367.7	1347.6	1331.4	1331.4
22.5°	2578.1	2087.9	1575.5	1452.5	1408.1	1361.7	1311.2	1262.8	1232.6	1212.4	1212.4
25°	2693.1	2136.3	1563.4	1414.1	1347.6	1281.0	1212.4	1151.9	1121.6	1101.4	1097.4
27.5°	2789.9	2164.6	1531.1	1359.7	1272.9	1188.2	1109.5	1047.0	1024.8	1006.6	1006.6
30°	2892.8	2182.7	1470.6	1289.1	1188.2	1091.4	1010.7	960.2	936.0	909.8	907.8
32.5°	3007.8	2194.8	1402.0	1214.4	1101.4	998.6	930.0	889.6	837.2	808.9	804.9
35°	3140.9	2211.0	1329.4	1129.7	1014.7	921.9	881.6	815.0	764.6	740.4	738.3
37.5°	3282.2	2223.1	1250.7	1055.1	936.0	871.5	831.1	752.5	708.1	671.8	667.7
40°	3431.4	2223.1	1170.0	982.4	873.5	849.3	772.6	702.0	627.4	609.2	605.2
42.5°	3596.9	2219.0	1089.3	911.8	815.0	798.9	738.3	663.7	625.4	609.2	605.2
45°	3772.4	2204.9	1012.7	831.1	754.5	722.2	675.8	655.6	639.5	639.5	639.5
47.5°	3972.1	2192.8	925.9	758.5	710.1	673.8	639.5	627.4	625.4	631.4	637.5
50°	4228.3	2188.8	853.3	706.1	675.8	633.4	629.4	619.3	621.3	621.3	621.3
52.5°	4538.9	2152.5	784.7	667.7	641.5	591.1	603.2	613.3	617.3	615.3	613.3
55°	4766.9	2087.9	726.2	641.5	617.3	574.9	591.1	607.2	611.2	605.2	605.2
57.5°	4972.7	1997.1	679.8	621.3	601.2	564.8	583.0	599.1	595.1	593.1	591.1
60°	5208.7	1910.4	643.5	611.2	585.0	560.8	576.9	587.0	581.0	576.9	574.9
62.5°	5464.9	1825.7	617.3	611.2	572.9	558.8	570.9	574.9	562.8	558.8	558.8
65°	5583.9	1692.5	589.1	611.2	566.9	554.8	558.8	554.8	542.7	542.7	540.6
67.5°	5388.2	1472.6	552.7	603.2	574.9	548.7	540.6	534.6	520.5	520.5	516.4
70°	4847.6	1210.4	500.3	576.9	576.9	546.7	516.4	502.3	486.2	492.2	484.2
72.5°	4141.5	960.2	435.7	532.6	564.8	544.7	490.2	468.0	453.9	459.9	447.8
75°	3354.8	744.4	359.1	462.0	534.6	534.6	464.0	433.7	417.6	417.6	403.5
77.5°	2138.3	550.7	292.5	383.3	480.1	520.5	441.8	395.4	371.2	365.1	355.0
80°	1059.1	387.3	240.1	304.6	409.5	488.2	425.7	351.0	316.7	304.6	286.5
82.5°	562.8	268.3	191.6	238.0	326.8	439.8	405.5	302.6	260.2	242.1	221.9
85°	252.2	165.4	153.3	181.6	248.1	361.1	365.1	248.1	199.7	238.0	175.5
87.5°	92.8	74.6	74.6	92.8	143.2	151.3	258.2	159.4	127.1	86.7	68.6
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)