

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: P399142

Luminaire Tested: **ARCH-L-PA3-100-740-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-100-740-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12217 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

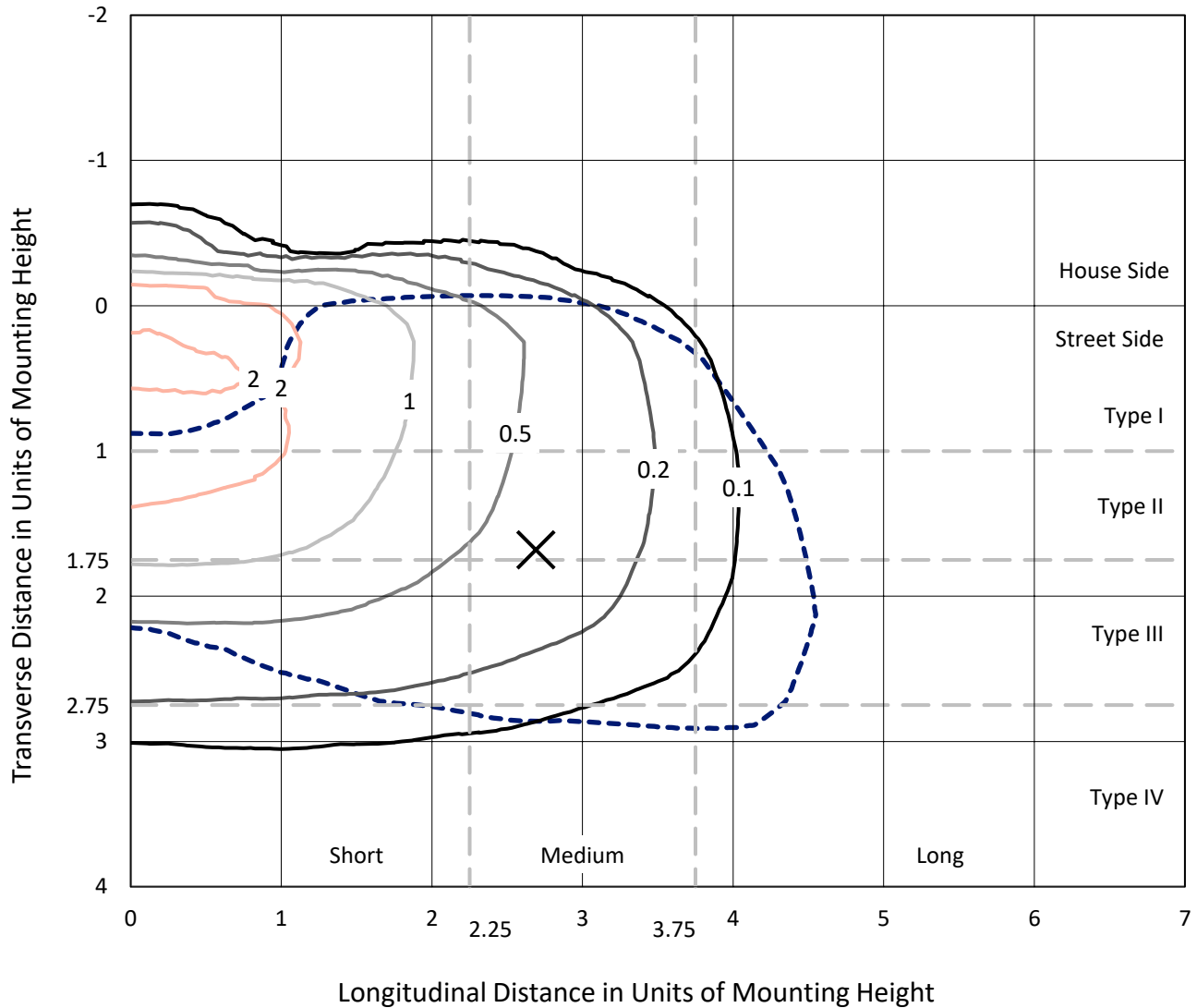
Input Watts (W): 102
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399142
 CATALOG NUMBER: ARCH-L-PA3-100-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

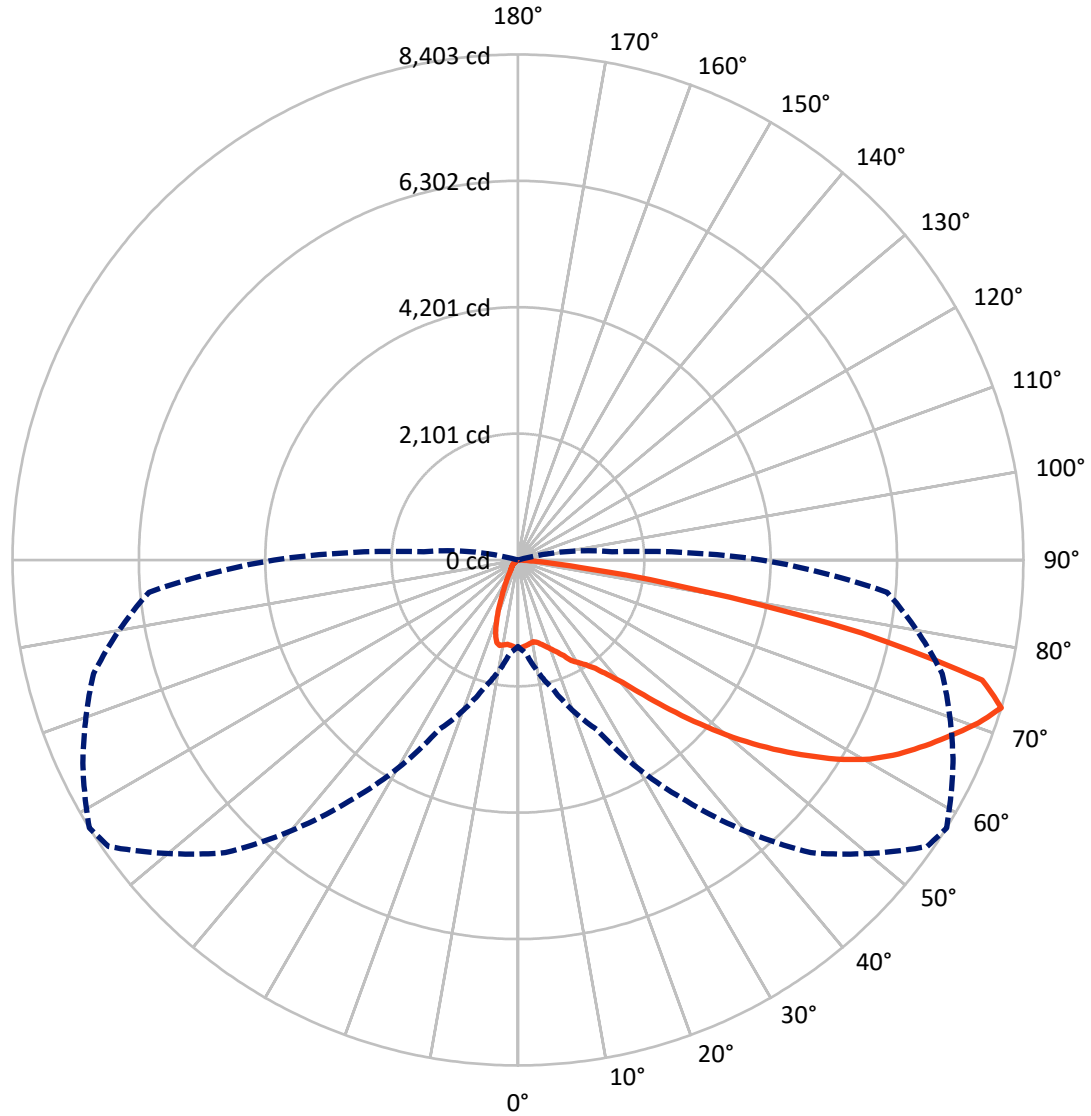
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399142
CATALOG NUMBER: ARCH-L-PA3-100-740-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: ARCH-L-PA3-100-740-U-T3-HSS

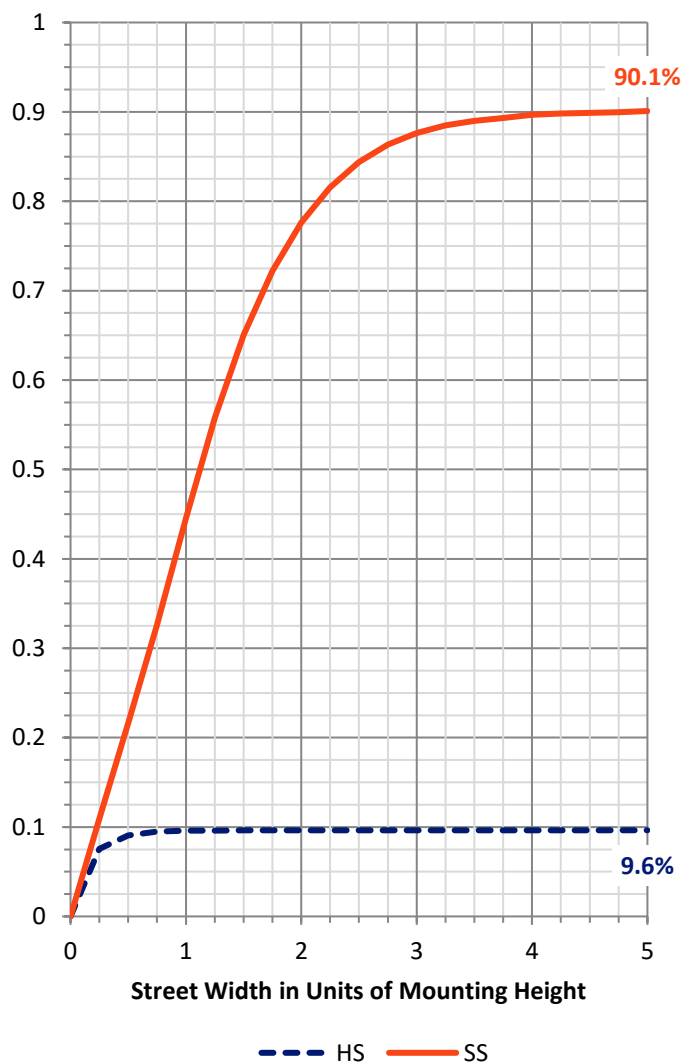
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1188.0	0.0	1188.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	11029.0	0.0	11029.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	12217.0	0.0	12217.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.1
10°-20°	350.4	2.9
20°-30°	550.5	4.5
30°-40°	949.4	7.8
40°-50°	1806.2	14.8
50°-60°	2860.5	23.4
60°-70°	3337.8	27.3
70°-80°	2090.5	17.1
80°-90°	137.2	1.1
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°	12217.0	100.0
0°-180°	12217.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399142

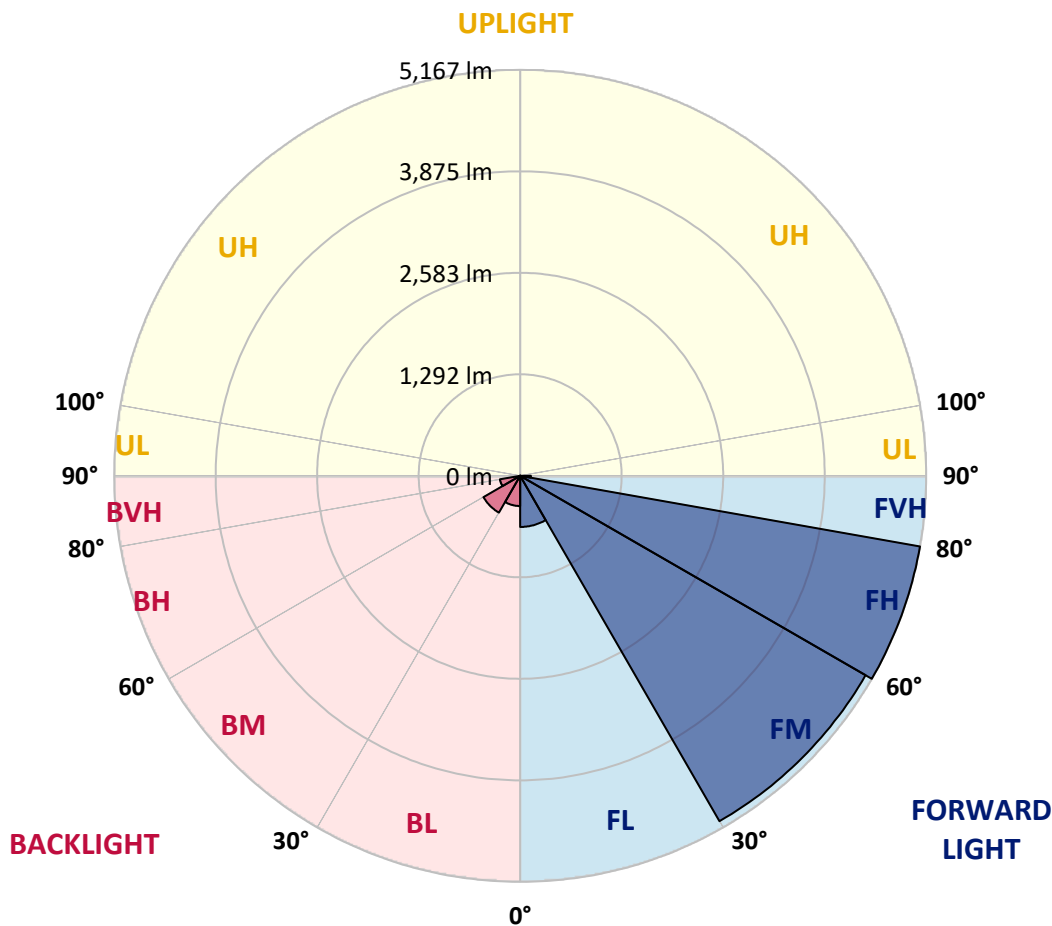
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.7	5.3			
FM (30°-60°)	5075.5	41.5			
FH (60°-80°)	5166.9	42.3			G3/7500
FVH (80°-90°)	135.9	1.1			G2/225
BL (0°-30°)	384.7	3.1	B1/500		
BM (30°-60°)	540.6	4.4	B1/1000		
BH (60°-80°)	261.4	2.1	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium





REPORT NUMBER: P399142

CATALOG NUMBER: ARCH-L-PA3-100-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1466.0	1466.0	1466.0	1466.0	1466.0	1466.0	1466.0	1466.0	1466.0	1466.0	1466.0
2.5°	1459.4	1452.9	1450.7	1448.5	1450.7	1452.9	1446.3	1452.9	1448.5	1450.7	1455.0
5°	1407.0	1400.4	1398.2	1400.4	1407.0	1417.9	1422.3	1428.8	1428.8	1435.4	1437.6
7.5°	1348.0	1343.6	1341.4	1345.8	1358.9	1382.9	1396.1	1404.8	1413.5	1426.6	1439.7
10°	1315.2	1313.0	1310.8	1317.4	1330.5	1352.4	1369.8	1382.9	1415.7	1452.9	1476.9
12.5°	1293.4	1293.4	1297.7	1310.8	1328.3	1345.8	1387.3	1404.8	1455.0	1511.8	1544.6
15°	1275.9	1275.9	1282.4	1306.5	1330.5	1372.0	1433.2	1452.9	1511.8	1581.8	1625.5
17.5°	1262.8	1267.2	1271.5	1295.6	1341.4	1411.3	1483.4	1511.8	1583.9	1660.4	1708.5
20°	1265.0	1269.3	1271.5	1295.6	1361.1	1457.2	1549.0	1581.8	1664.8	1745.6	1793.7
22.5°	1278.1	1284.6	1286.8	1319.6	1396.1	1505.3	1623.3	1660.4	1750.0	1835.2	1872.3
25°	1332.7	1337.1	1324.0	1352.4	1446.3	1579.6	1719.4	1758.7	1848.3	1926.9	1957.5
27.5°	1518.4	1522.8	1450.7	1417.9	1485.6	1640.7	1837.4	1892.0	2003.4	2055.8	2060.2
30°	1920.4	1924.8	1782.8	1627.6	1579.6	1693.2	1902.9	1979.4	2123.6	2182.6	2156.3
32.5°	2438.2	2433.8	2239.4	2010.0	1802.4	1784.9	1996.9	2077.7	2235.0	2291.8	2272.1
35°	2958.1	2964.7	2798.7	2453.5	2156.3	1957.5	2117.0	2211.0	2401.0	2481.9	2446.9
37.5°	3314.3	3358.0	3285.9	2912.3	2591.1	2276.5	2311.5	2412.0	2650.1	2759.3	2685.1
40°	3816.8	3805.8	3631.1	3355.8	3071.8	2748.4	2626.1	2674.1	2947.2	3093.6	2977.8
42.5°	4491.8	4470.0	4172.9	3904.1	3587.4	3323.0	3073.9	3065.2	3288.0	3458.5	3290.2
45°	5103.6	5070.8	4867.6	4607.6	4260.3	3956.6	3620.1	3543.7	3698.8	3843.0	3646.3
47.5°	5590.8	5536.2	5392.0	5254.3	5169.1	4697.2	4192.5	4076.7	4155.4	4262.4	3985.0
50°	6167.5	6016.8	5807.1	5724.0	5901.0	5536.2	4743.1	4631.7	4627.3	4688.5	4334.5
52.5°	6429.7	6156.6	6038.6	6108.6	6421.0	6316.1	5337.3	5177.9	5114.5	5121.0	4660.1
55°	6112.9	6082.3	6145.7	6364.2	6772.7	6711.5	5907.6	5710.9	5617.0	5499.0	4972.5
57.5°	5752.4	5846.4	6097.6	6514.9	7218.4	7124.5	6469.0	6246.2	6073.6	5802.7	5319.9
60°	5420.4	5516.5	5931.6	6549.9	7463.1	7522.1	6936.6	6724.7	6469.0	6112.9	5702.2
62.5°	4915.7	4990.0	5573.3	6499.6	7356.0	7753.7	7262.1	7102.6	6864.5	6407.9	6141.3
65°	4347.6	4395.7	4972.5	6097.6	7146.3	7727.5	7530.8	7441.2	7209.7	6715.9	6576.1
67.5°	3725.0	3781.8	4262.4	5374.5	6735.6	7605.1	7784.3	7775.5	7511.2	7056.7	6890.7
70°	3008.4	3012.8	3410.4	4456.9	6019.0	7360.4	8098.9	8118.5	7799.5	7312.3	6903.8
72.5°	1439.7	1557.7	2211.0	3111.1	4891.6	6879.8	8304.2	8402.5	7980.9	7303.6	6158.8
75°	329.9	340.8	644.5	1479.1	2868.6	5280.5	7790.8	7974.3	7539.6	6316.1	4338.9
77.5°	120.2	126.7	181.3	432.6	1103.3	2728.7	5575.5	5844.2	5573.3	4083.3	2051.5
80°	80.8	78.7	93.9	192.3	506.9	773.4	2851.1	3010.6	2748.4	1393.9	491.6
82.5°	41.5	43.7	65.5	107.1	340.8	268.7	952.5	1035.6	852.1	279.6	91.8
85°	19.7	19.7	37.1	67.7	144.2	93.9	211.9	255.6	229.4	122.3	30.6
87.5°	19.7	19.7	35.0	43.7	74.3	39.3	52.4	65.5	61.2	65.5	10.9
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: P399142
 CATALOG NUMBER: ARCH-L-PA3-100-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1466.0	1466.0	1466.0	1466.0	1466.0	1466.0	1466.0	1466.0	1466.0	1466.0	1466.0
2.5°	1455.0	1452.9	1450.7	1455.0	1452.9	1457.2	1457.2	1461.6	1461.6	1457.2	1455.0
5°	1435.4	1431.0	1426.6	1426.6	1424.5	1428.8	1441.9	1452.9	1455.0	1448.5	1446.3
7.5°	1437.6	1437.6	1433.2	1424.5	1409.2	1409.2	1409.2	1422.3	1428.8	1424.5	1422.3
10°	1476.9	1479.1	1468.2	1448.5	1422.3	1398.2	1352.4	1284.6	1221.3	1203.8	1197.2
12.5°	1544.6	1546.8	1525.0	1490.0	1435.4	1293.4	1118.6	956.9	832.4	797.4	790.9
15°	1625.5	1627.6	1588.3	1531.5	1365.5	1035.6	775.6	592.1	482.8	456.6	454.4
17.5°	1708.5	1704.1	1645.1	1535.9	1157.9	734.1	471.9	378.0	349.6	343.0	345.2
20°	1789.3	1776.2	1695.4	1455.0	891.4	480.6	345.2	323.3	316.8	312.4	312.4
22.5°	1863.6	1837.4	1736.9	1295.6	624.8	345.2	308.0	303.7	294.9	288.4	286.2
25°	1937.9	1900.7	1763.1	1088.0	419.5	301.5	290.6	281.8	270.9	262.2	260.0
27.5°	2027.4	1975.0	1750.0	825.8	314.6	279.6	270.9	257.8	242.5	229.4	225.0
30°	2112.7	2053.7	1675.7	570.2	268.7	257.8	244.7	225.0	205.4	190.1	185.7
32.5°	2219.7	2152.0	1542.4	373.6	233.8	225.0	211.9	187.9	161.7	144.2	139.8
35°	2372.6	2296.2	1372.0	262.2	205.4	190.1	172.6	146.4	118.0	104.9	102.7
37.5°	2586.7	2484.1	1157.9	211.9	181.3	159.5	133.3	107.1	87.4	76.5	74.3
40°	2848.9	2691.6	919.8	187.9	161.7	133.3	100.5	76.5	63.4	54.6	54.6
42.5°	3132.9	2886.1	677.3	172.6	142.0	109.2	74.3	54.6	45.9	41.5	39.3
45°	3425.7	3058.6	456.6	159.5	124.5	83.0	52.4	37.1	30.6	30.6	28.4
47.5°	3729.4	3174.4	294.9	144.2	104.9	61.2	35.0	26.2	21.8	21.8	21.8
50°	4030.9	3235.6	209.7	131.1	85.2	41.5	26.2	19.7	17.5	17.5	17.5
52.5°	4249.3	3196.3	168.2	113.6	65.5	30.6	19.7	15.3	13.1	13.1	13.1
55°	4439.4	3128.6	146.4	98.3	48.1	21.8	15.3	13.1	10.9	10.9	10.9
57.5°	4633.8	3041.2	131.1	83.0	35.0	15.3	10.9	8.7	8.7	8.7	8.7
60°	4810.8	2892.6	113.6	65.5	24.0	10.9	8.7	6.6	6.6	6.6	6.6
62.5°	4983.4	2765.9	98.3	50.2	17.5	8.7	4.4	4.4	2.2	2.2	2.2
65°	5081.7	2595.5	78.7	32.8	10.9	6.6	2.2	2.2	0.0	0.0	0.0
67.5°	5051.1	2392.3	54.6	19.7	6.6	4.4	2.2	0.0	0.0	0.0	0.0
70°	4839.2	2119.2	32.8	10.9	6.6	4.4	2.2	0.0	0.0	0.0	0.0
72.5°	4052.7	1568.6	19.7	8.7	4.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	2706.9	721.0	10.9	6.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	1238.8	216.3	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	249.1	56.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.4	10.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)