

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: P399223

Luminaire Tested: **ARCH-L-PA3-110-750-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399223
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-PA3-110-750-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 485mA 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: 13354 lumens
Efficiency: N/A
Efficacy: 118.2 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

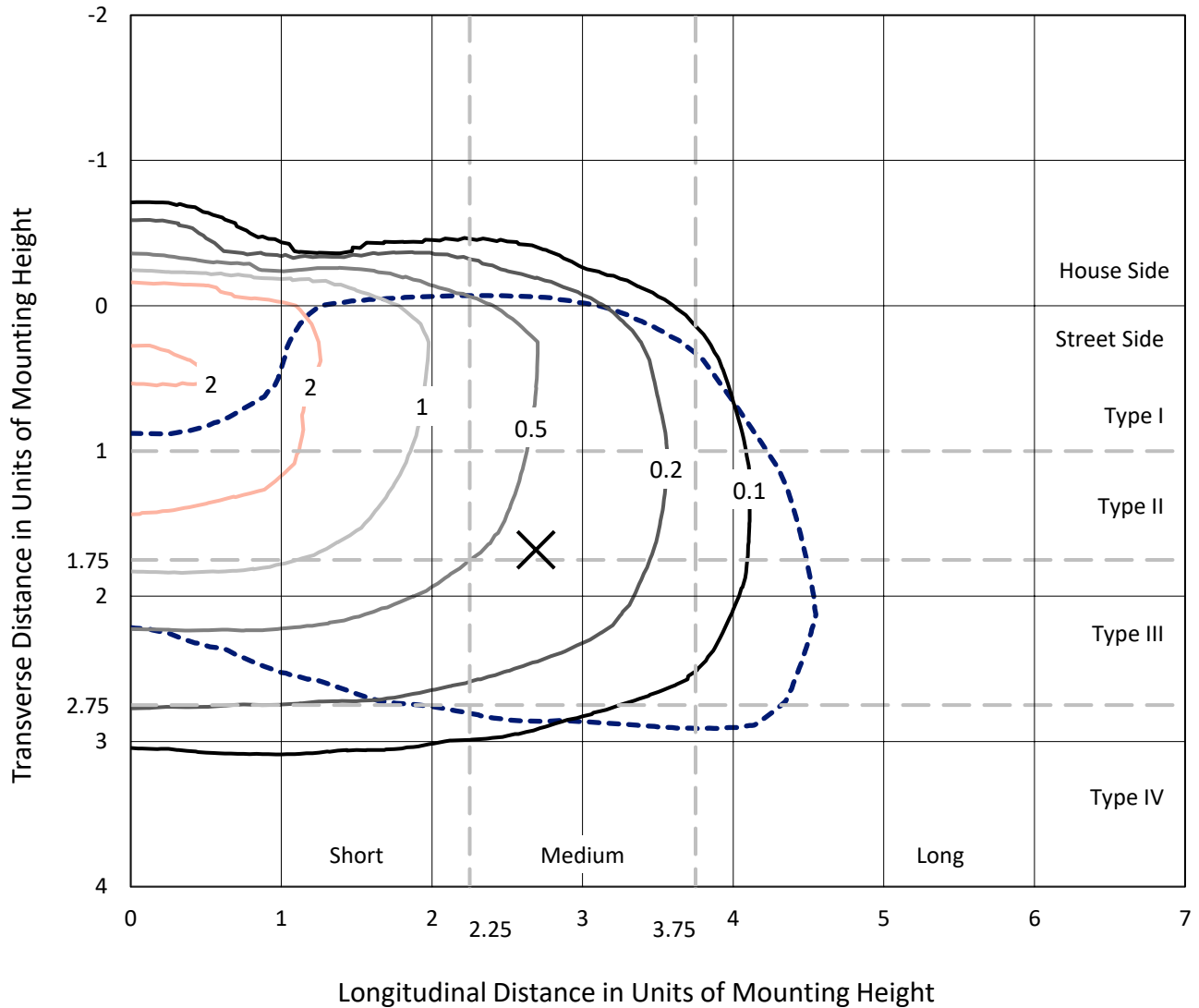
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399223
 CATALOG NUMBER: ARCH-L-PA3-110-750-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

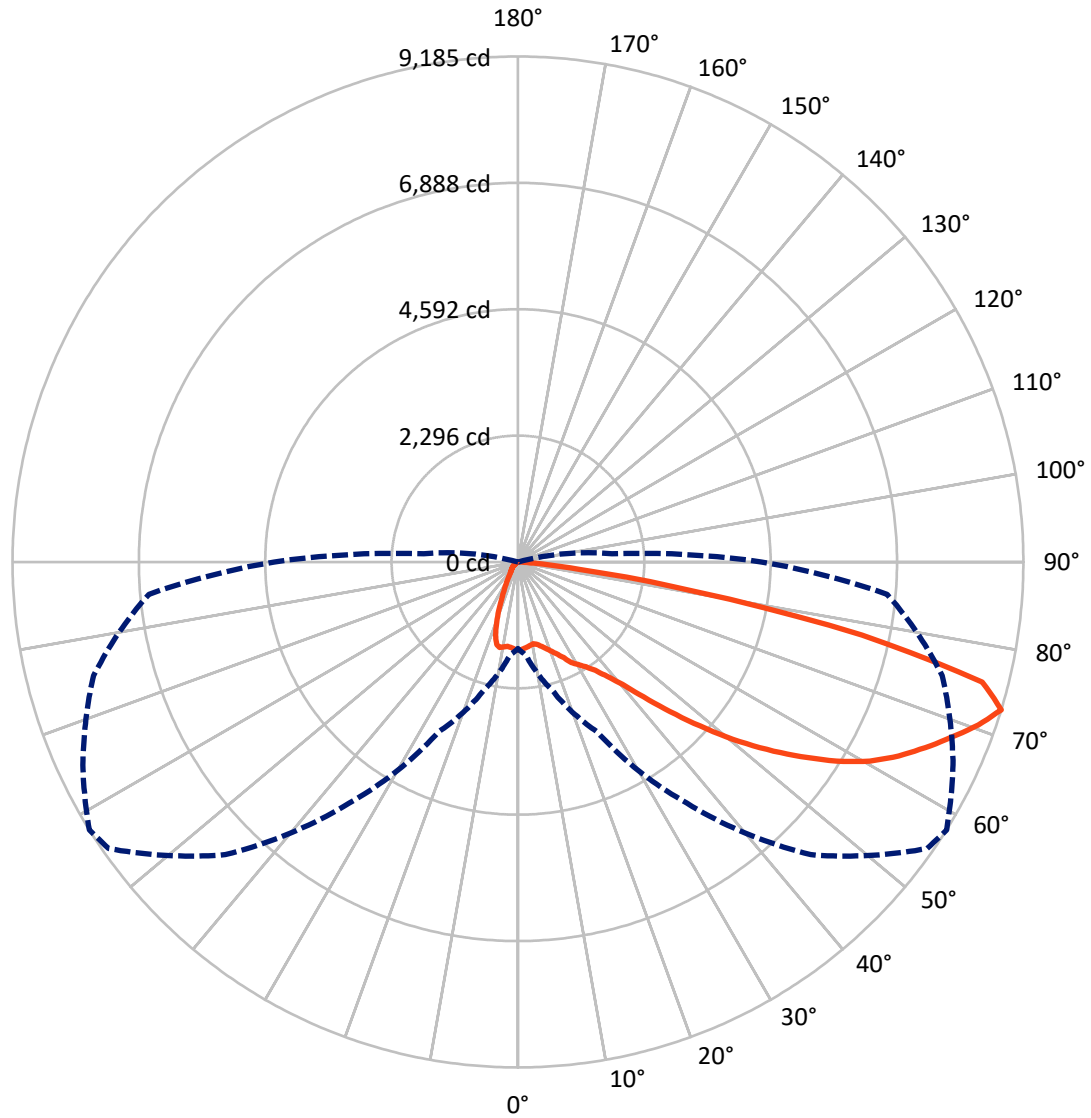
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399223
CATALOG NUMBER: ARCH-L-PA3-110-750-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399223
 CATALOG NUMBER: ARCH-L-PA3-110-750-U-T3-HSS

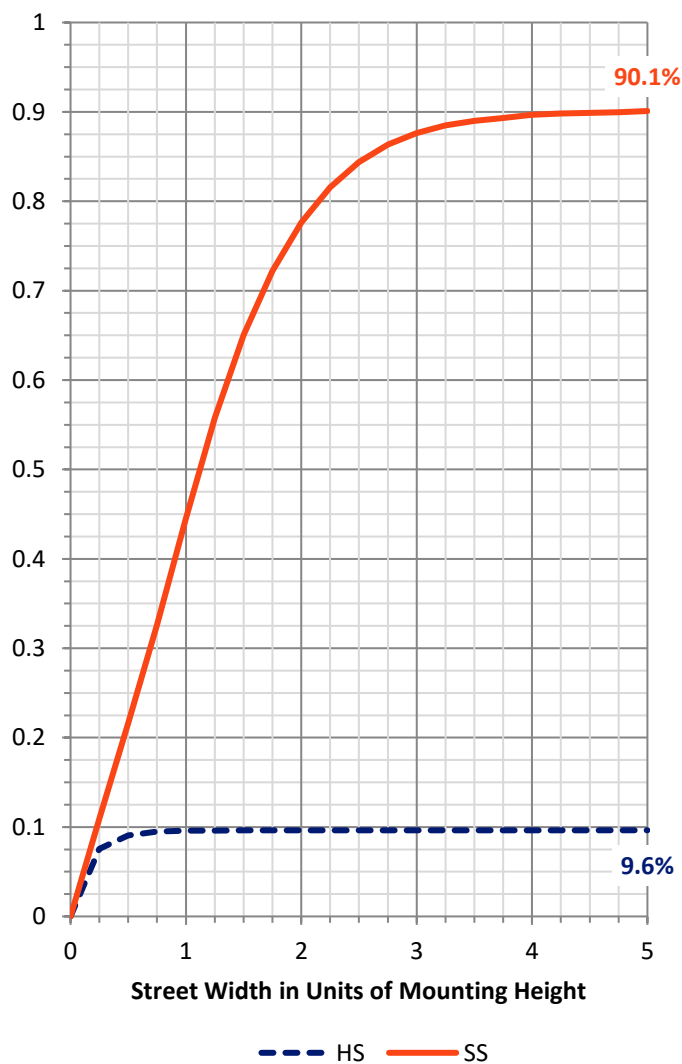
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1298.6	0.0	1298.6
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	12055.4	0.0	12055.4
	% Fixture	90.3	0.0	90.3
Total	Lumens	13354.0	0.0	13354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.1
10°-20°	383.0	2.9
20°-30°	601.7	4.5
30°-40°	1037.7	7.8
40°-50°	1974.3	14.8
50°-60°	3126.7	23.4
60°-70°	3648.5	27.3
70°-80°	2285.1	17.1
80°-90°	150.0	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°	13354.0	100.0
0°-180°	13354.0	100.0

Coefficient of Utilization



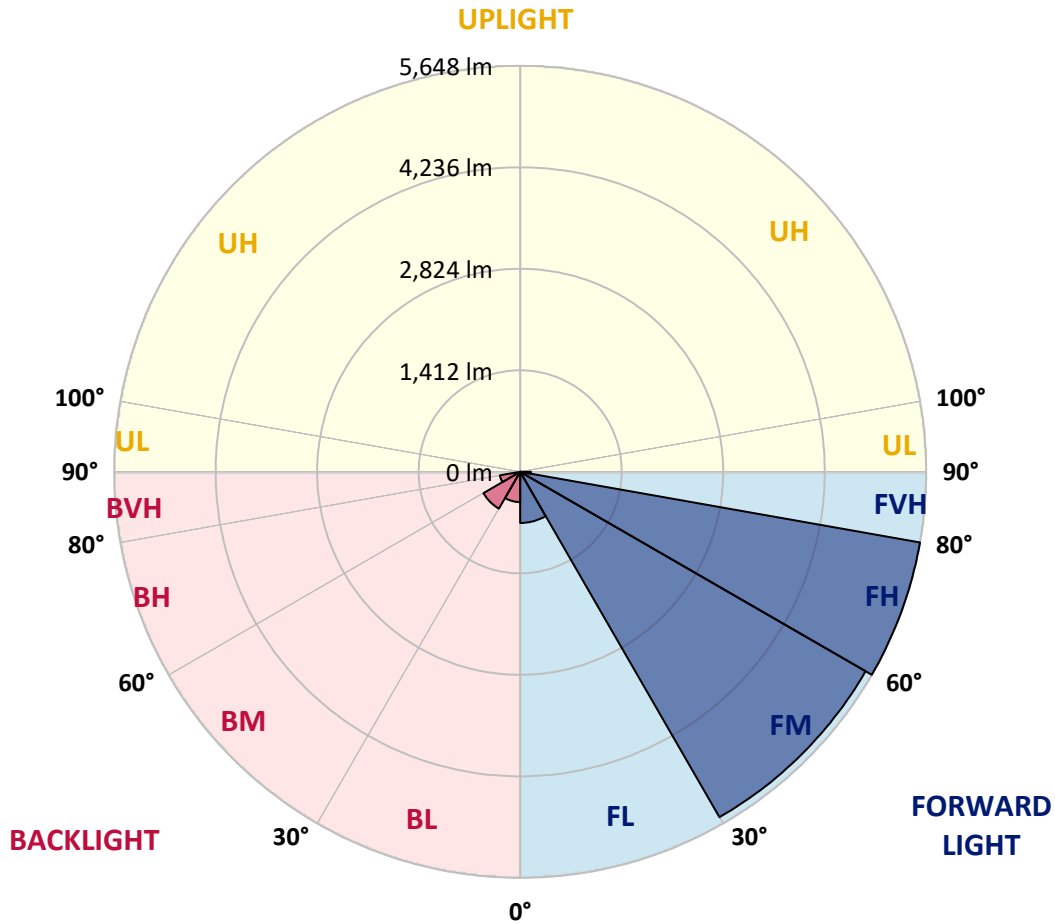
REPORT NUMBER: P399223
 CATALOG NUMBER: ARCH-L-PA3-110-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	711.3	5.3			
FM (30°-60°)	5547.8	41.5			
FH (60°-80°)	5647.8	42.3			G3/7500
FVH (80°-90°)	148.5	1.1			G2/225
BL (0°-30°)	420.5	3.1	B1/500		
BM (30°-60°)	590.9	4.4	B1/1000		
BH (60°-80°)	285.7	2.1	B1/500		G1/500
BVH (80°-90°)	1.4	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: P399223

CATALOG NUMBER: ARCH-L-PA3-110-750-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4
2.5°	1595.2	1588.1	1585.7	1583.3	1585.7	1588.1	1580.9	1588.1	1583.3	1585.7	1590.5
5°	1537.9	1530.8	1528.4	1530.8	1537.9	1549.9	1554.6	1561.8	1561.8	1569.0	1571.4
7.5°	1473.4	1468.7	1466.3	1471.1	1485.4	1511.7	1526.0	1535.5	1545.1	1559.4	1573.7
10°	1437.6	1435.2	1432.8	1440.0	1454.3	1478.2	1497.3	1511.7	1547.5	1588.1	1614.3
12.5°	1413.7	1413.7	1418.5	1432.8	1451.9	1471.1	1516.4	1535.5	1590.5	1652.5	1688.4
15°	1394.6	1394.6	1401.8	1428.1	1454.3	1499.7	1566.6	1588.1	1652.5	1729.0	1776.7
17.5°	1380.3	1385.1	1389.9	1416.1	1466.3	1542.7	1621.5	1652.5	1731.4	1814.9	1867.5
20°	1382.7	1387.5	1389.9	1416.1	1487.8	1592.8	1693.1	1729.0	1819.7	1908.1	1960.6
22.5°	1397.0	1404.2	1406.6	1442.4	1526.0	1645.4	1774.3	1814.9	1912.8	2006.0	2046.6
25°	1456.7	1461.5	1447.2	1478.2	1580.9	1726.6	1879.4	1922.4	2020.3	2106.3	2139.7
27.5°	1659.7	1664.5	1585.7	1549.9	1623.9	1793.4	2008.4	2068.1	2189.9	2247.2	2252.0
30°	2099.1	2103.9	1948.7	1779.1	1726.6	1850.8	2080.0	2163.6	2321.2	2385.7	2357.0
32.5°	2665.1	2660.3	2447.8	2197.0	1970.2	1951.1	2182.7	2271.1	2443.0	2505.1	2483.6
35°	3233.5	3240.6	3059.1	2681.8	2357.0	2139.7	2314.0	2416.7	2624.5	2712.9	2674.6
37.5°	3622.7	3670.5	3591.7	3183.3	2832.3	2488.4	2526.6	2636.4	2896.7	3016.1	2934.9
40°	4172.0	4160.0	3969.0	3668.1	3357.6	3004.2	2870.5	2923.0	3221.5	3381.5	3254.9
42.5°	4909.9	4886.0	4561.2	4267.5	3921.2	3632.3	3360.0	3350.5	3594.1	3780.3	3596.4
45°	5578.5	5542.7	5320.6	5036.5	4656.7	4324.8	3957.0	3873.5	4043.0	4200.6	3985.7
47.5°	6111.1	6051.4	5893.8	5743.3	5650.2	5134.4	4582.7	4456.1	4542.1	4659.1	4355.8
50°	6741.5	6576.8	6347.5	6256.8	6450.2	6051.4	5184.5	5062.7	5057.9	5124.8	4737.9
52.5°	7028.1	6729.6	6600.6	6677.1	7018.6	6903.9	5834.1	5659.7	5590.5	5597.6	5093.8
55°	6681.8	6648.4	6717.7	6956.5	7403.0	7336.2	6457.4	6242.4	6139.7	6010.8	5435.3
57.5°	6287.8	6390.5	6665.1	7121.2	7890.2	7787.5	7071.1	6827.5	6638.8	6342.7	5815.0
60°	5924.8	6029.9	6483.6	7159.5	8157.7	8222.1	7582.1	7350.5	7071.1	6681.8	6232.9
62.5°	5373.2	5454.4	6092.0	7104.5	8040.6	8475.3	7938.0	7763.6	7503.3	7004.2	6712.9
65°	4752.3	4804.8	5435.3	6665.1	7811.4	8446.6	8231.7	8133.8	7880.6	7340.9	7188.1
67.5°	4071.7	4133.8	4659.1	5874.7	7362.4	8312.9	8508.7	8499.2	8210.2	7713.5	7532.0
70°	3288.4	3293.2	3727.8	4871.7	6579.1	8045.4	8852.6	8874.1	8525.4	7992.9	7546.3
72.5°	1573.7	1702.7	2416.7	3400.6	5346.9	7520.0	9077.1	9184.5	8723.6	7983.3	6732.0
75°	360.6	372.5	704.5	1616.7	3135.5	5772.0	8515.9	8716.5	8241.2	6903.9	4742.7
77.5°	131.3	138.5	198.2	472.8	1206.0	2982.7	6094.4	6388.1	6092.0	4463.3	2242.4
80°	88.4	86.0	102.7	210.2	554.0	845.4	3116.4	3290.8	3004.2	1523.6	537.3
82.5°	45.4	47.8	71.6	117.0	372.5	293.7	1041.2	1131.9	931.3	305.7	100.3
85°	21.5	21.5	40.6	74.0	157.6	102.7	231.6	279.4	250.7	133.7	33.4
87.5°	21.5	21.5	38.2	47.8	81.2	43.0	57.3	71.6	66.9	71.6	11.9
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: P399223

CATALOG NUMBER: ARCH-L-PA3-110-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4
2.5°	1590.5	1588.1	1585.7	1590.5	1588.1	1592.8	1592.8	1597.6	1597.6	1592.8	1590.5
5°	1569.0	1564.2	1559.4	1559.4	1557.0	1561.8	1576.1	1588.1	1590.5	1583.3	1580.9
7.5°	1571.4	1571.4	1566.6	1557.0	1540.3	1540.3	1540.3	1554.6	1561.8	1557.0	1554.6
10°	1614.3	1616.7	1604.8	1583.3	1554.6	1528.4	1478.2	1404.2	1334.9	1315.8	1308.7
12.5°	1688.4	1690.8	1666.9	1628.7	1569.0	1413.7	1222.7	1046.0	909.9	871.6	864.5
15°	1776.7	1779.1	1736.1	1674.0	1492.5	1131.9	847.8	647.2	527.8	499.1	496.7
17.5°	1867.5	1862.7	1798.2	1678.8	1265.7	802.4	515.8	413.1	382.1	374.9	377.3
20°	1955.8	1941.5	1853.1	1590.5	974.3	525.4	377.3	353.4	346.3	341.5	341.5
22.5°	2037.0	2008.4	1898.5	1416.1	683.0	377.3	336.7	331.9	322.4	315.2	312.8
25°	2118.2	2077.6	1927.2	1189.3	458.5	329.6	317.6	308.1	296.1	286.6	284.2
27.5°	2216.1	2158.8	1912.8	902.7	343.9	305.7	296.1	281.8	265.1	250.7	246.0
30°	2309.3	2244.8	1831.7	623.3	293.7	281.8	267.5	246.0	224.5	207.8	203.0
32.5°	2426.3	2352.3	1686.0	408.4	255.5	246.0	231.6	205.4	176.7	157.6	152.8
35°	2593.4	2509.9	1499.7	286.6	224.5	207.8	188.7	160.0	129.0	114.6	112.2
37.5°	2827.5	2715.2	1265.7	231.6	198.2	174.3	145.7	117.0	95.5	83.6	81.2
40°	3114.1	2942.1	1005.4	205.4	176.7	145.7	109.9	83.6	69.3	59.7	59.7
42.5°	3424.5	3154.6	740.3	188.7	155.2	119.4	81.2	59.7	50.1	45.4	43.0
45°	3744.5	3343.3	499.1	174.3	136.1	90.7	57.3	40.6	33.4	33.4	31.0
47.5°	4076.4	3469.9	322.4	157.6	114.6	66.9	38.2	28.7	23.9	23.9	23.9
50°	4406.0	3536.7	229.3	143.3	93.1	45.4	28.7	21.5	19.1	19.1	19.1
52.5°	4644.8	3493.8	183.9	124.2	71.6	33.4	21.5	16.7	14.3	14.3	14.3
55°	4852.6	3419.7	160.0	107.5	52.5	23.9	16.7	14.3	11.9	11.9	11.9
57.5°	5065.1	3324.2	143.3	90.7	38.2	16.7	11.9	9.6	9.6	9.6	9.6
60°	5258.5	3161.8	124.2	71.6	26.3	11.9	9.6	7.2	7.2	7.2	7.2
62.5°	5447.2	3023.3	107.5	54.9	19.1	9.6	4.8	4.8	2.4	2.4	2.4
65°	5554.7	2837.0	86.0	35.8	11.9	7.2	2.4	2.4	0.0	0.0	0.0
67.5°	5521.2	2614.9	59.7	21.5	7.2	4.8	2.4	0.0	0.0	0.0	0.0
70°	5289.6	2316.4	35.8	11.9	7.2	4.8	2.4	0.0	0.0	0.0	0.0
72.5°	4429.9	1714.6	21.5	9.6	4.8	2.4	0.0	0.0	0.0	0.0	0.0
75°	2958.8	788.1	11.9	7.2	2.4	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	1354.0	236.4	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	272.2	62.1	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.3	11.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	2.4	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)