

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: P399189

Luminaire Tested: **ARCH-L-PA3-110-722-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-110-722-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9691 lumens  
Efficiency: N/A  
Efficacy: 85.8 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

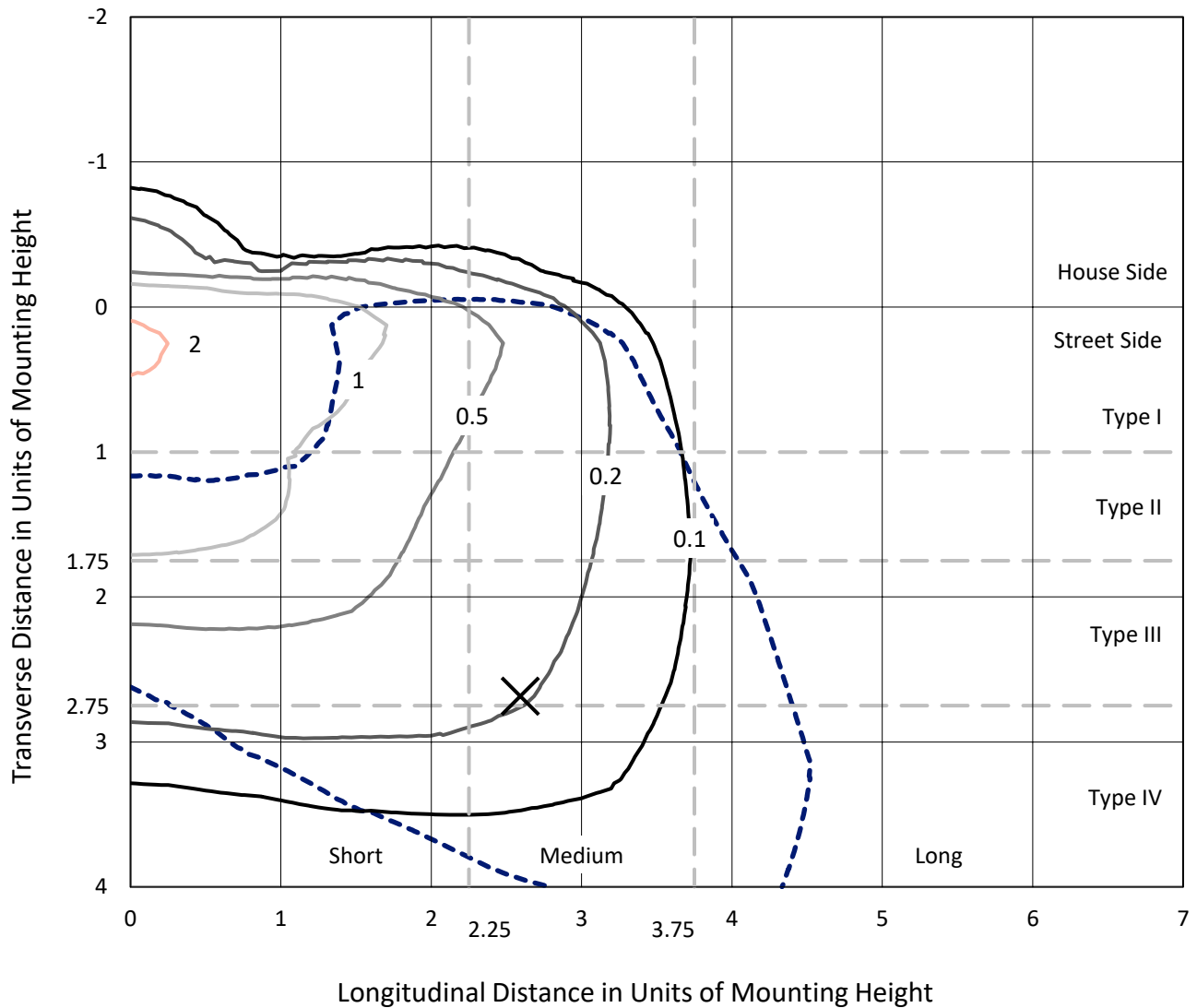
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

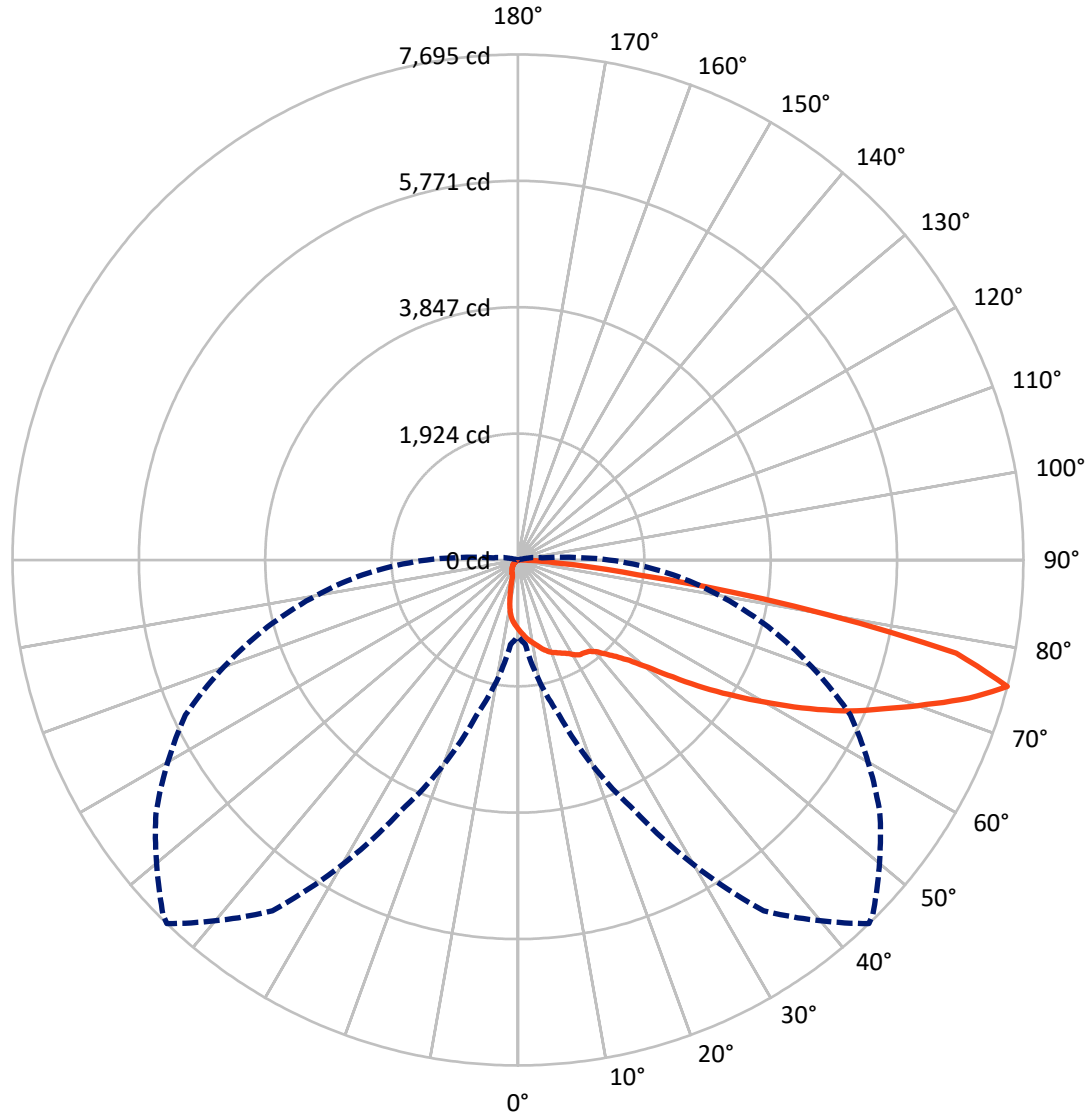
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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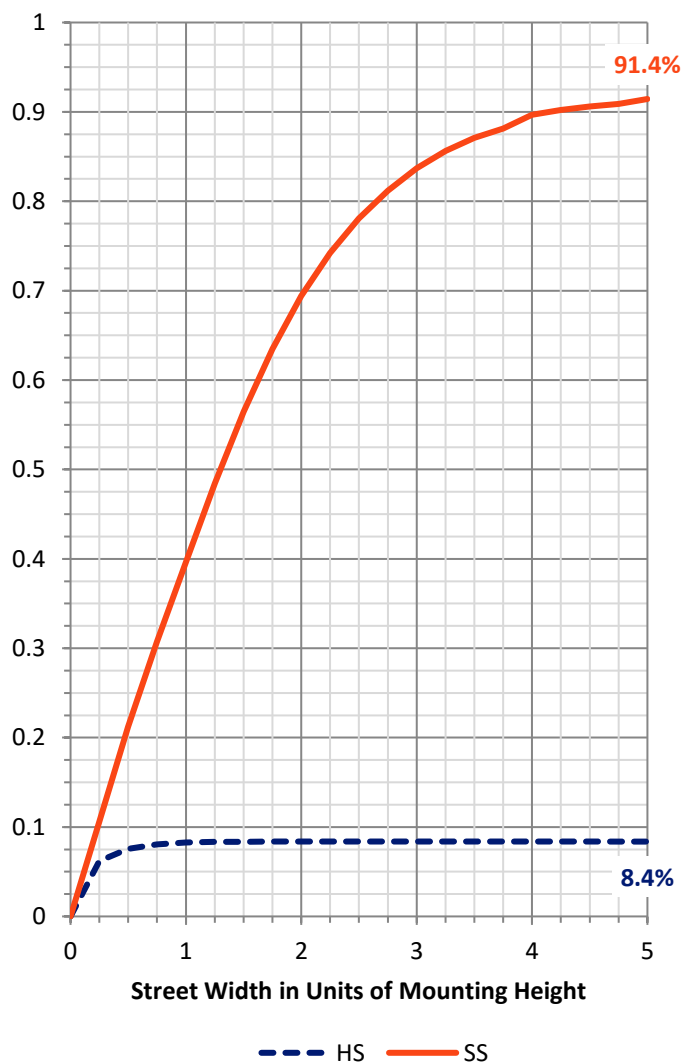
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	817.3	0.0	817.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	8873.7	0.0	8873.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	9691.0	0.0	9691.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.5	1.0
10°-20°	278.8	2.9
20°-30°	460.0	4.7
30°-40°	667.7	6.9
40°-50°	1085.3	11.2
50°-60°	1913.3	19.7
60°-70°	2749.8	28.4
70°-80°	2202.0	22.7
80°-90°	234.6	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°	9691.0	100.0
0°-180°	9691.0	100.0

**Coefficient of Utilization**



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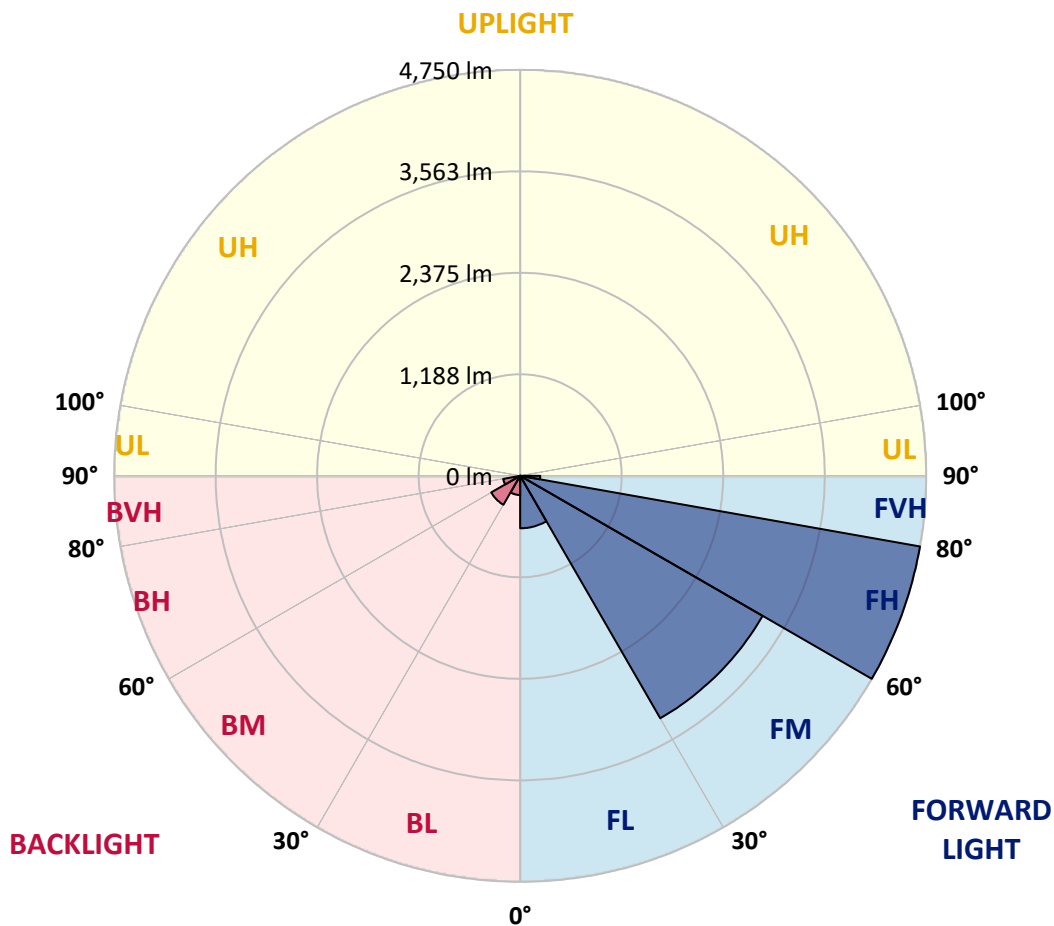
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.7	6.3			
FM (30°-60°)	3275.6	33.8			
FH (60°-80°)	4750.4	49.0			G2/5000
FVH (80°-90°)	234.0	2.4			G3/500
BL (0°-30°)	224.5	2.3	B1/500		
BM (30°-60°)	390.7	4.0	B1/1000		
BH (60°-80°)	201.5	2.1	B1/500		G1/500
BVH (80°-90°)	0.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8
2.5°	1149.6	1147.8	1142.4	1133.5	1124.6	1115.6	1113.8	1099.5	1083.4	1070.9	1060.2
5°	1251.5	1249.7	1240.8	1221.1	1201.4	1178.2	1176.4	1142.4	1112.0	1078.1	1049.5
7.5°	1357.0	1353.4	1337.3	1306.9	1272.9	1237.2	1233.6	1183.6	1138.9	1094.2	1053.0
10°	1439.2	1435.6	1412.4	1376.6	1330.2	1285.5	1280.1	1228.2	1183.6	1126.3	1070.9
12.5°	1519.7	1512.5	1482.1	1442.8	1385.6	1342.7	1337.3	1283.7	1230.0	1171.0	1103.1
15°	1594.8	1585.8	1557.2	1507.2	1446.4	1405.2	1401.7	1344.5	1289.0	1221.1	1146.0
17.5°	1646.6	1643.0	1609.1	1553.6	1494.6	1460.7	1457.1	1398.1	1342.7	1271.2	1190.7
20°	1673.4	1673.4	1641.2	1580.5	1526.8	1503.6	1498.2	1442.8	1389.2	1321.2	1237.2
22.5°	1678.8	1684.2	1659.1	1593.0	1553.6	1534.0	1530.4	1482.1	1430.3	1367.7	1289.0
25°	1689.5	1689.5	1677.0	1605.5	1576.9	1571.5	1569.7	1526.8	1480.3	1417.8	1340.9
27.5°	1702.0	1702.0	1693.1	1623.4	1612.6	1610.8	1609.1	1589.4	1551.8	1478.5	1401.7
30°	1734.2	1736.0	1728.8	1659.1	1652.0	1671.6	1675.2	1664.5	1618.0	1526.8	1464.2
32.5°	1814.7	1798.6	1778.9	1684.2	1696.7	1721.7	1723.5	1702.0	1652.0	1578.7	1539.3
35°	2016.7	1921.9	1832.5	1705.6	1711.0	1736.0	1739.6	1737.8	1707.4	1644.8	1625.2
37.5°	2204.4	2070.3	1943.4	1755.7	1737.8	1764.6	1771.8	1802.1	1778.9	1736.0	1741.4
40°	2313.5	2261.6	2172.2	1893.3	1791.4	1832.5	1839.7	1886.2	1877.2	1859.4	1893.3
42.5°	2649.6	2653.2	2556.6	2098.9	1889.8	1955.9	1964.8	2002.4	2014.9	2023.8	2106.1
45°	3039.3	3051.9	3028.6	2469.0	2075.7	2097.1	2109.7	2159.7	2206.2	2263.4	2413.6
47.5°	3507.8	3497.0	3411.2	2921.3	2399.3	2279.5	2288.4	2385.0	2465.4	2590.6	2805.1
50°	3922.5	3949.3	3786.7	3343.3	2855.2	2567.3	2558.4	2653.2	2798.0	2973.2	3243.2
52.5°	4340.9	4301.6	4081.7	3761.6	3395.1	2958.9	2932.1	2983.9	3187.7	3395.1	3672.2
55°	4451.7	4455.3	4380.2	4219.3	3845.7	3434.5	3389.8	3386.2	3640.1	3781.3	4122.8
57.5°	4669.9	4678.8	4696.7	4728.9	4551.9	3910.0	3863.5	3813.5	4060.2	4142.4	4575.1
60°	4891.5	4902.3	5011.3	5184.8	5066.8	4423.1	4373.1	4255.1	4392.7	4503.6	5050.7
62.5°	4862.9	4938.0	5254.5	5599.5	5585.2	4986.3	4923.7	4639.5	4727.1	4823.6	5486.9
65°	4390.9	4471.4	5183.0	5714.0	6105.5	5542.3	5440.4	5036.4	5041.7	5157.9	5907.0
67.5°	3969.0	4056.6	4736.0	5665.7	6448.8	6041.1	5935.6	5435.0	5351.0	5544.1	6132.3
70°	3725.9	3813.5	4380.2	5515.5	6545.3	6593.6	6502.4	5890.9	5719.3	5896.3	5880.2
72.5°	2916.0	3053.6	3926.1	5229.4	6649.0	7185.3	7113.8	6468.4	6032.2	5528.0	4476.8
75°	1162.1	1289.0	2451.1	4208.6	6518.5	7694.9	7639.5	6727.7	5583.4	3947.6	2292.0
77.5°	350.4	375.4	681.2	2081.1	4778.9	6822.4	6804.5	5656.7	3951.1	1832.5	625.7
80°	116.2	128.7	209.2	573.9	2181.2	4262.2	4342.7	3604.3	1795.0	420.1	126.9
82.5°	48.3	53.6	105.5	230.6	772.3	1836.1	1809.3	1614.4	625.7	261.0	46.5
85°	12.5	16.1	48.3	132.3	282.5	632.9	665.1	541.7	354.0	216.3	14.3
87.5°	0.0	0.0	23.2	53.6	126.9	191.3	200.2	164.5	200.2	162.7	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8	1054.8
2.5°	1051.3	1042.3	1026.2	1015.5	1001.2	997.6	990.5	981.5	979.7	970.8	972.6
5°	1033.4	1019.1	990.5	970.8	947.6	940.4	927.9	919.0	911.8	899.3	901.1
7.5°	1029.8	1008.3	969.0	931.5	893.9	867.1	829.6	799.2	774.1	747.3	752.7
10°	1042.3	1015.5	960.1	908.2	840.3	754.5	656.1	591.8	559.6	527.4	531.0
12.5°	1067.3	1035.2	963.6	885.0	747.3	600.7	464.8	377.2	354.0	339.7	341.5
15°	1104.9	1065.6	974.4	840.3	622.2	434.4	309.3	271.8	280.7	286.1	286.1
17.5°	1144.2	1099.5	983.3	759.8	480.9	303.9	252.1	248.5	261.0	273.5	273.5
20°	1192.5	1135.3	985.1	657.9	346.8	246.7	237.8	237.8	246.7	261.0	261.0
22.5°	1239.0	1174.6	969.0	541.7	264.6	228.8	228.8	228.8	234.2	248.5	250.3
25°	1294.4	1222.9	935.0	418.4	227.1	218.1	218.1	219.9	223.5	236.0	237.8
27.5°	1353.4	1272.9	877.8	305.7	207.4	205.6	207.4	209.2	211.0	223.5	227.1
30°	1421.3	1328.4	804.5	228.8	189.5	189.5	194.9	198.5	198.5	209.2	212.8
32.5°	1500.0	1401.7	716.9	189.5	171.6	169.8	178.8	184.1	184.1	193.1	196.7
35°	1598.3	1476.8	611.4	168.1	157.3	153.8	157.3	166.3	169.8	177.0	178.8
37.5°	1728.8	1566.2	498.8	155.5	146.6	139.5	139.5	141.2	148.4	155.5	157.3
40°	1895.1	1664.5	388.0	146.6	135.9	128.7	123.4	121.6	119.8	125.1	128.7
42.5°	2104.3	1775.3	289.6	137.7	126.9	116.2	109.1	101.9	93.0	91.2	93.0
45°	2372.5	1911.2	214.5	130.5	121.6	105.5	93.0	80.5	64.4	59.0	60.8
47.5°	2688.9	2052.4	168.1	123.4	118.0	93.0	76.9	55.4	39.3	35.8	37.5
50°	3025.0	2188.3	143.0	114.4	110.8	80.5	55.4	34.0	23.2	23.2	25.0
52.5°	3311.1	2265.2	130.5	107.3	100.1	66.2	35.8	19.7	14.3	14.3	16.1
55°	3588.2	2306.3	121.6	100.1	85.8	46.5	19.7	12.5	8.9	8.9	8.9
57.5°	3874.3	2324.2	110.8	91.2	67.9	28.6	10.7	7.2	5.4	5.4	5.4
60°	4128.1	2290.2	94.8	75.1	44.7	14.3	5.4	5.4	3.6	1.8	1.8
62.5°	4340.9	2225.9	66.2	53.6	26.8	7.2	3.6	1.8	0.0	0.0	0.0
65°	4471.4	2122.2	42.9	35.8	16.1	5.4	1.8	0.0	0.0	0.0	0.0
67.5°	4433.9	1927.3	26.8	23.2	7.2	3.6	1.8	0.0	0.0	0.0	0.0
70°	4001.2	1580.5	19.7	14.3	5.4	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	2883.8	1069.1	14.3	8.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	1387.4	380.8	8.9	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	339.7	84.0	5.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	75.1	16.1	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.0	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	1.8	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)