

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: P399349

Luminaire Tested: **ARCH-L-PA3-130-730-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399349  
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-PA3-130-730-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 575mA 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: 14049 lumens  
Efficiency: N/A  
Efficacy: 105.6 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

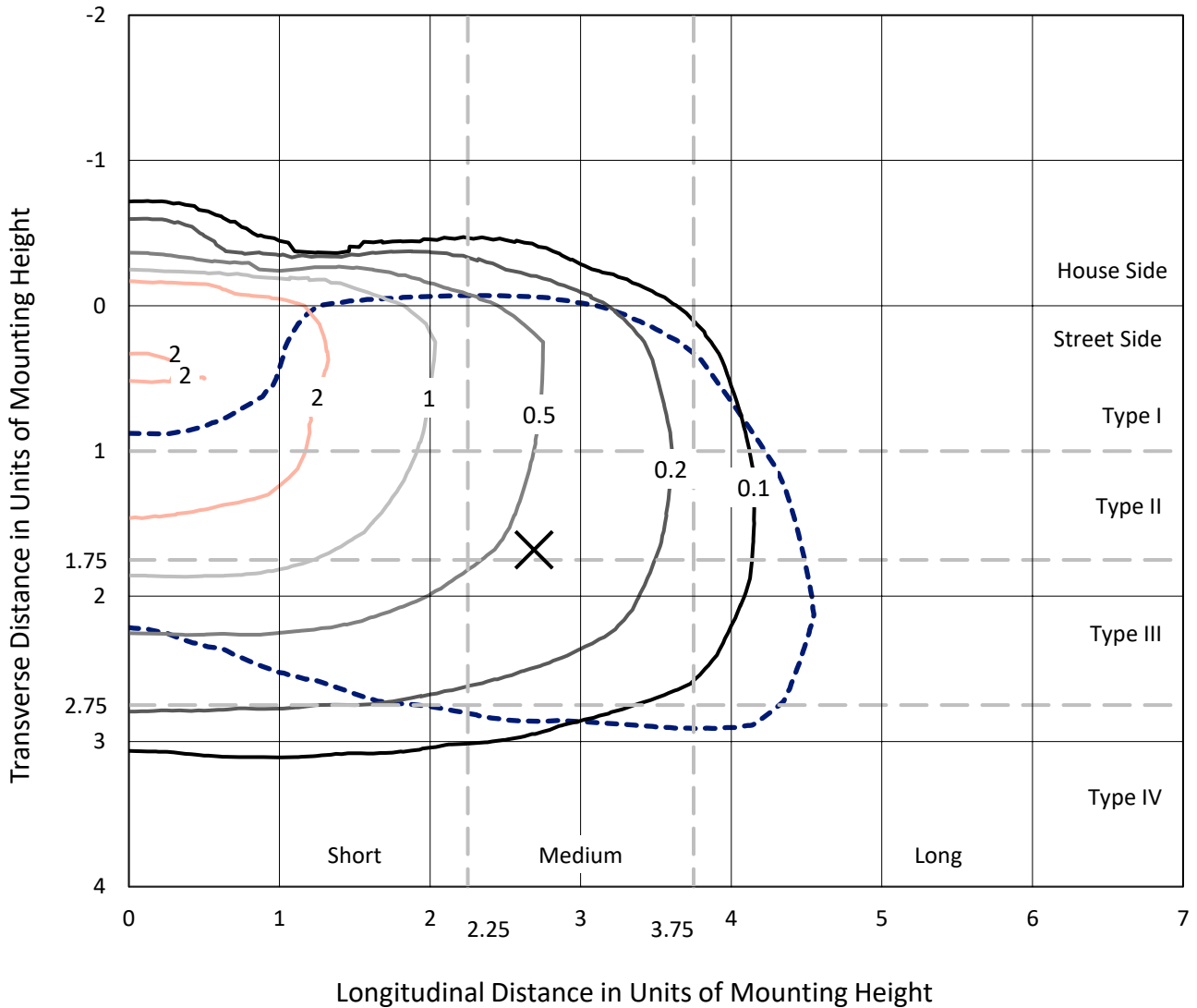
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

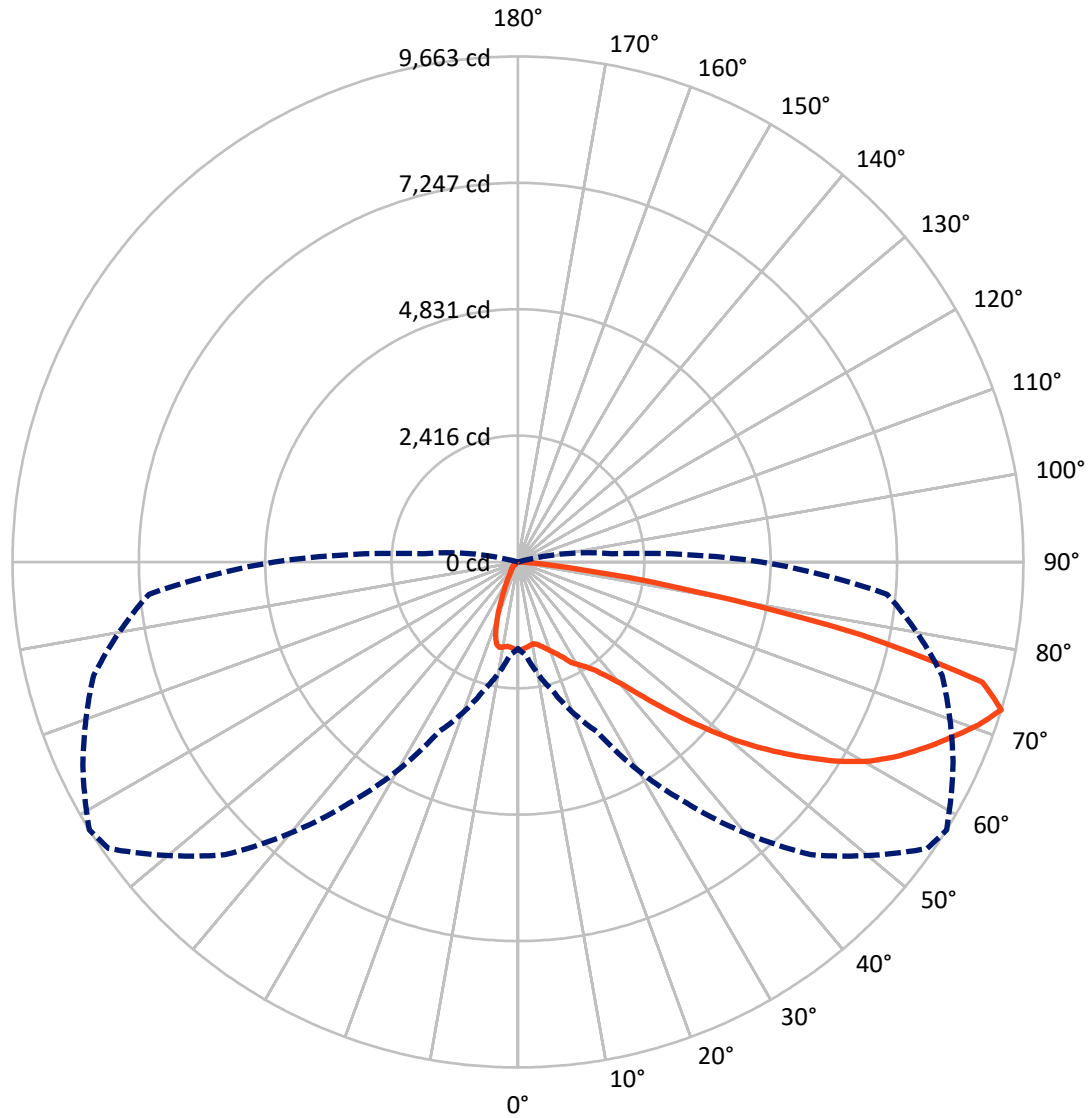
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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

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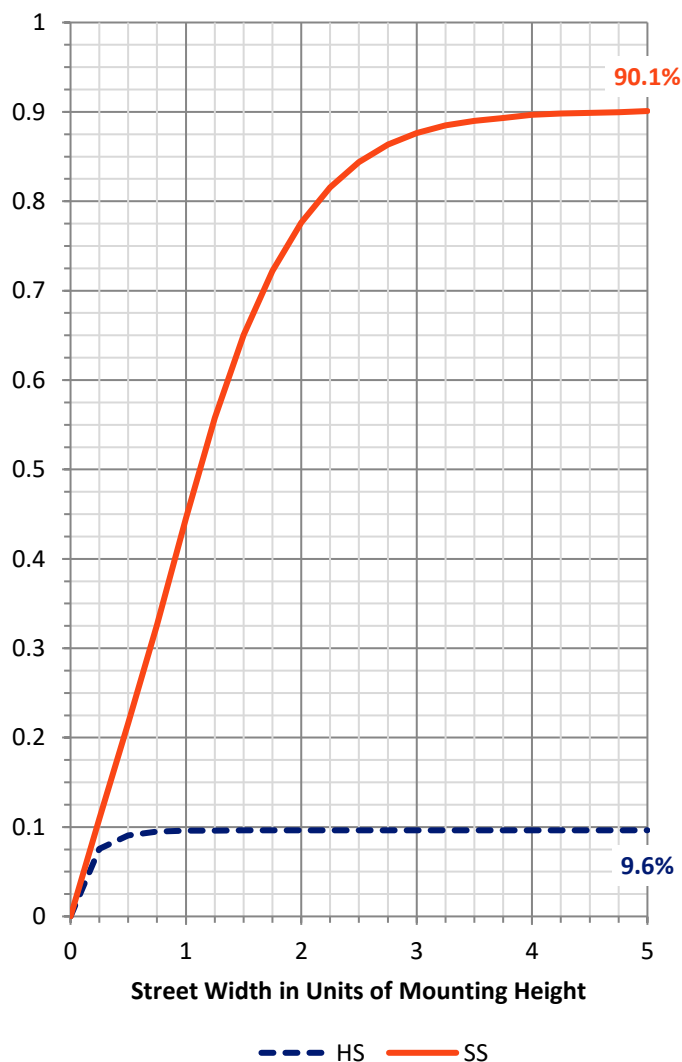
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1366.2	0.0	1366.2
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	12682.8	0.0	12682.8
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	14049.0	0.0	14049.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.7	1.1
10°-20°	403.0	2.9
20°-30°	633.0	4.5
30°-40°	1091.7	7.8
40°-50°	2077.0	14.8
50°-60°	3289.4	23.4
60°-70°	3838.3	27.3
70°-80°	2404.0	17.1
80°-90°	157.8	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°	14049.0	100.0
0°-180°	14049.0	100.0

**Coefficient of Utilization**



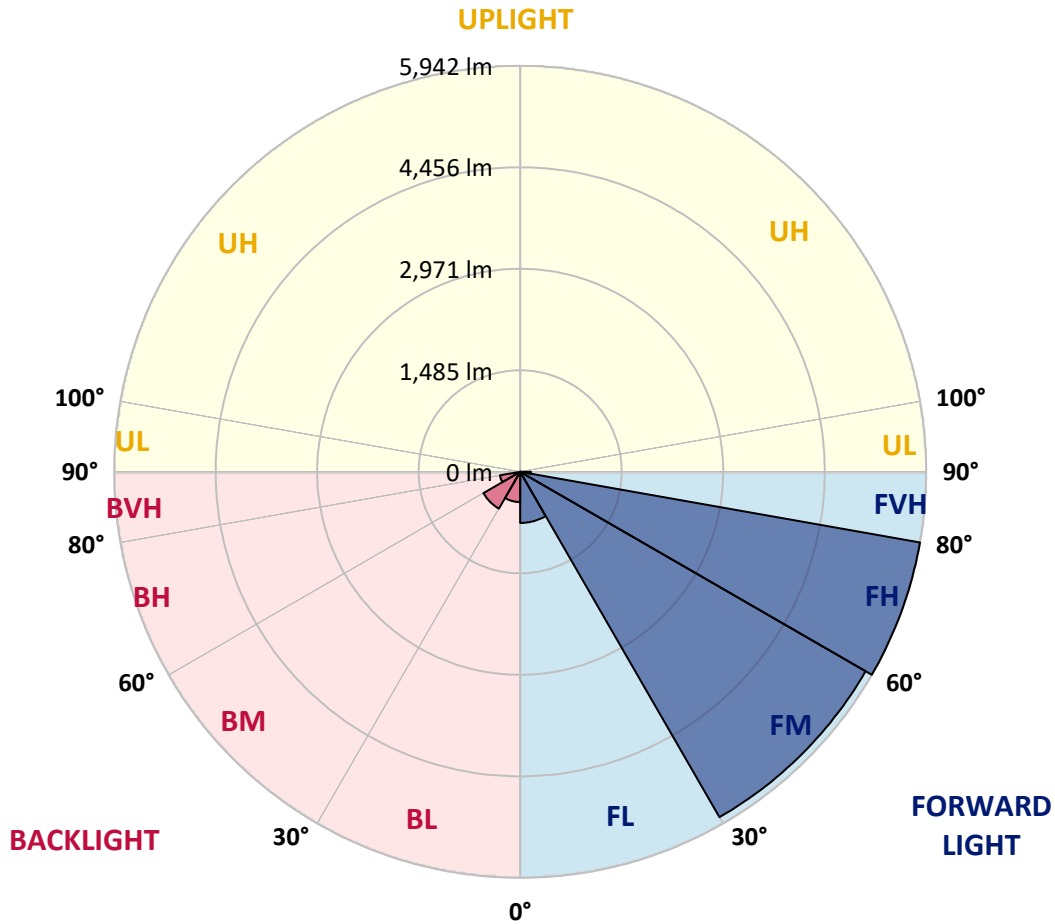
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.3	5.3			
FM (30°-60°)	5836.5	41.5			
FH (60°-80°)	5941.7	42.3			G3/7500
FVH (80°-90°)	156.3	1.1			G2/225
BL (0°-30°)	442.4	3.1	B1/500		
BM (30°-60°)	621.6	4.4	B1/1000		
BH (60°-80°)	300.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.5	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°	45°	55°	58°	65°	75°	85°
0°	1685.8	1685.8	1685.8	1685.8	1685.8	1685.8	1685.8	1685.8	1685.8	1685.8	1685.8
2.5°	1678.3	1670.7	1668.2	1665.7	1668.2	1670.7	1663.2	1670.7	1665.7	1668.2	1673.2
5°	1618.0	1610.4	1607.9	1610.4	1618.0	1630.5	1635.5	1643.1	1643.1	1650.6	1653.1
7.5°	1550.1	1545.1	1542.6	1547.6	1562.7	1590.3	1605.4	1615.4	1625.5	1640.6	1655.6
10°	1512.4	1509.9	1507.4	1515.0	1530.0	1555.2	1575.3	1590.3	1628.0	1670.7	1698.4
12.5°	1487.3	1487.3	1492.3	1507.4	1527.5	1547.6	1595.3	1615.4	1673.2	1738.6	1776.2
15°	1467.2	1467.2	1474.8	1502.4	1530.0	1577.8	1648.1	1670.7	1738.6	1818.9	1869.2
17.5°	1452.1	1457.2	1462.2	1489.8	1542.6	1623.0	1705.9	1738.6	1821.5	1909.4	1964.7
20°	1454.7	1459.7	1462.2	1489.8	1565.2	1675.7	1781.3	1818.9	1914.4	2007.4	2062.6
22.5°	1469.7	1477.3	1479.8	1517.5	1605.4	1731.0	1866.7	1909.4	2012.4	2110.4	2153.1
25°	1532.5	1537.6	1522.5	1555.2	1663.2	1816.4	1977.2	2022.5	2125.5	2215.9	2251.1
27.5°	1746.1	1751.1	1668.2	1630.5	1708.4	1886.8	2112.9	2175.7	2303.8	2364.1	2369.2
30°	2208.4	2213.4	2050.1	1871.7	1816.4	1947.1	2188.3	2276.2	2442.0	2509.8	2479.7
32.5°	2803.8	2798.8	2575.2	2311.4	2072.7	2052.6	2296.3	2389.3	2570.1	2635.5	2612.9
35°	3401.7	3409.3	3218.3	2821.4	2479.7	2251.1	2434.5	2542.5	2761.1	2854.0	2813.8
37.5°	3811.3	3861.5	3778.6	3349.0	2979.7	2617.9	2658.1	2773.6	3047.5	3173.1	3087.7
40°	4389.1	4376.5	4175.5	3859.0	3532.4	3160.6	3019.9	3075.1	3389.2	3557.5	3424.3
42.5°	5165.4	5140.3	4798.6	4489.6	4125.3	3821.3	3534.9	3524.8	3781.1	3977.1	3783.6
45°	5868.9	5831.2	5597.5	5298.6	4899.1	4549.9	4163.0	4075.0	4253.4	4419.2	4193.1
47.5°	6429.1	6366.3	6200.5	6042.2	5944.2	5401.6	4821.2	4688.1	4778.5	4901.6	4582.5
50°	7092.4	6919.0	6677.9	6582.4	6785.9	6366.3	5454.3	5326.2	5321.2	5391.5	4984.5
52.5°	7393.9	7079.8	6944.2	7024.6	7383.8	7263.2	6137.7	5954.3	5881.4	5889.0	5358.9
55°	7029.6	6994.4	7067.3	7318.5	7788.3	7718.0	6793.4	6567.3	6459.3	6323.6	5718.1
57.5°	6615.0	6723.1	7012.0	7491.9	8300.8	8192.8	7439.1	7182.8	6984.4	6672.8	6117.6
60°	6233.2	6343.7	6821.1	7532.1	8582.2	8650.1	7976.7	7733.0	7439.1	7029.6	6557.3
62.5°	5652.8	5738.2	6409.0	7474.3	8459.1	8916.4	8351.1	8167.7	7893.8	7368.8	7062.2
65°	4999.6	5054.9	5718.1	7012.0	8217.9	8886.2	8660.1	8557.1	8290.8	7723.0	7562.2
67.5°	4283.6	4348.9	4901.6	6180.4	7745.6	8745.5	8951.5	8941.5	8637.5	8114.9	7924.0
70°	3459.5	3464.5	3921.8	5125.2	6921.6	8464.1	9313.3	9335.9	8969.1	8408.9	7939.1
72.5°	1655.6	1791.3	2542.5	3577.6	5625.2	7911.4	9549.5	9662.5	9177.7	8398.8	7082.3
75°	379.4	391.9	741.1	1700.9	3298.7	6072.4	8959.1	9170.1	8670.2	7263.2	4989.5
77.5°	138.2	145.7	208.5	497.4	1268.7	3137.9	6411.5	6720.6	6409.0	4695.6	2359.1
80°	93.0	90.4	108.0	221.1	582.9	889.4	3278.6	3462.0	3160.6	1602.9	565.3
82.5°	47.7	50.2	75.4	123.1	391.9	309.0	1095.4	1190.9	979.8	321.6	105.5
85°	22.6	22.6	42.7	77.9	165.8	108.0	243.7	293.9	263.8	140.7	35.2
87.5°	22.6	22.6	40.2	50.2	85.4	45.2	60.3	75.4	70.3	75.4	12.6
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°	1685.8	1685.8	1685.8	1685.8	1685.8	1685.8	1685.8	1685.8	1685.8	1685.8	1685.8
2.5°	1673.2	1670.7	1668.2	1673.2	1670.7	1675.7	1675.7	1680.8	1680.8	1675.7	1673.2
5°	1650.6	1645.6	1640.6	1640.6	1638.1	1643.1	1658.2	1670.7	1673.2	1665.7	1663.2
7.5°	1653.1	1653.1	1648.1	1638.1	1620.5	1620.5	1620.5	1635.5	1643.1	1638.1	1635.5
10°	1698.4	1700.9	1688.3	1665.7	1635.5	1607.9	1555.2	1477.3	1404.4	1384.3	1376.8
12.5°	1776.2	1778.8	1753.6	1713.4	1650.6	1487.3	1286.3	1100.4	957.2	917.0	909.5
15°	1869.2	1871.7	1826.5	1761.2	1570.2	1190.9	891.9	680.8	555.2	525.1	522.6
17.5°	1964.7	1959.6	1891.8	1766.2	1331.6	844.2	542.7	434.6	402.0	394.4	397.0
20°	2057.6	2042.5	1949.6	1673.2	1025.0	552.7	397.0	371.8	364.3	359.3	359.3
22.5°	2143.0	2112.9	1997.3	1489.8	718.5	397.0	354.2	349.2	339.2	331.6	329.1
25°	2228.5	2185.8	2027.5	1251.2	482.4	346.7	334.1	324.1	311.5	301.5	299.0
27.5°	2331.5	2271.2	2012.4	949.7	361.8	321.6	311.5	296.5	278.9	263.8	258.8
30°	2429.5	2361.6	1927.0	655.7	309.0	296.5	281.4	258.8	236.2	218.6	213.6
32.5°	2552.6	2474.7	1773.7	429.6	268.8	258.8	243.7	216.1	185.9	165.8	160.8
35°	2728.4	2640.5	1577.8	301.5	236.2	218.6	198.5	168.3	135.7	120.6	118.1
37.5°	2974.6	2856.6	1331.6	243.7	208.5	183.4	153.3	123.1	100.5	87.9	85.4
40°	3276.1	3095.2	1057.7	216.1	185.9	153.3	115.6	87.9	72.9	62.8	62.8
42.5°	3602.7	3318.8	778.8	198.5	163.3	125.6	85.4	62.8	52.8	47.7	45.2
45°	3939.4	3517.3	525.1	183.4	143.2	95.5	60.3	42.7	35.2	35.2	32.7
47.5°	4288.6	3650.5	339.2	165.8	120.6	70.3	40.2	30.1	25.1	25.1	25.1
50°	4635.3	3720.8	241.2	150.7	98.0	47.7	30.1	22.6	20.1	20.1	20.1
52.5°	4886.5	3675.6	193.5	130.6	75.4	35.2	22.6	17.6	15.1	15.1	15.1
55°	5105.1	3597.7	168.3	113.1	55.3	25.1	17.6	15.1	12.6	12.6	12.6
57.5°	5328.7	3497.2	150.7	95.5	40.2	17.6	12.6	10.0	10.0	10.0	10.0
60°	5532.2	3326.4	130.6	75.4	27.6	12.6	10.0	7.5	7.5	7.5	7.5
62.5°	5730.7	3180.6	113.1	57.8	20.1	10.0	5.0	5.0	2.5	2.5	2.5
65°	5843.8	2984.7	90.4	37.7	12.6	7.5	2.5	2.5	0.0	0.0	0.0
67.5°	5808.6	2751.0	62.8	22.6	7.5	5.0	2.5	0.0	0.0	0.0	0.0
70°	5564.9	2437.0	37.7	12.6	7.5	5.0	2.5	0.0	0.0	0.0	0.0
72.5°	4660.4	1803.9	22.6	10.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
75°	3112.8	829.1	12.6	7.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
77.5°	1424.5	248.7	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	286.4	65.3	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	60.3	12.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	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)