

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: P400051

Luminaire Tested: **ARCH-L-PA3-230-722-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400051  
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-PA3-230-722-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 980mA 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: 17033 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

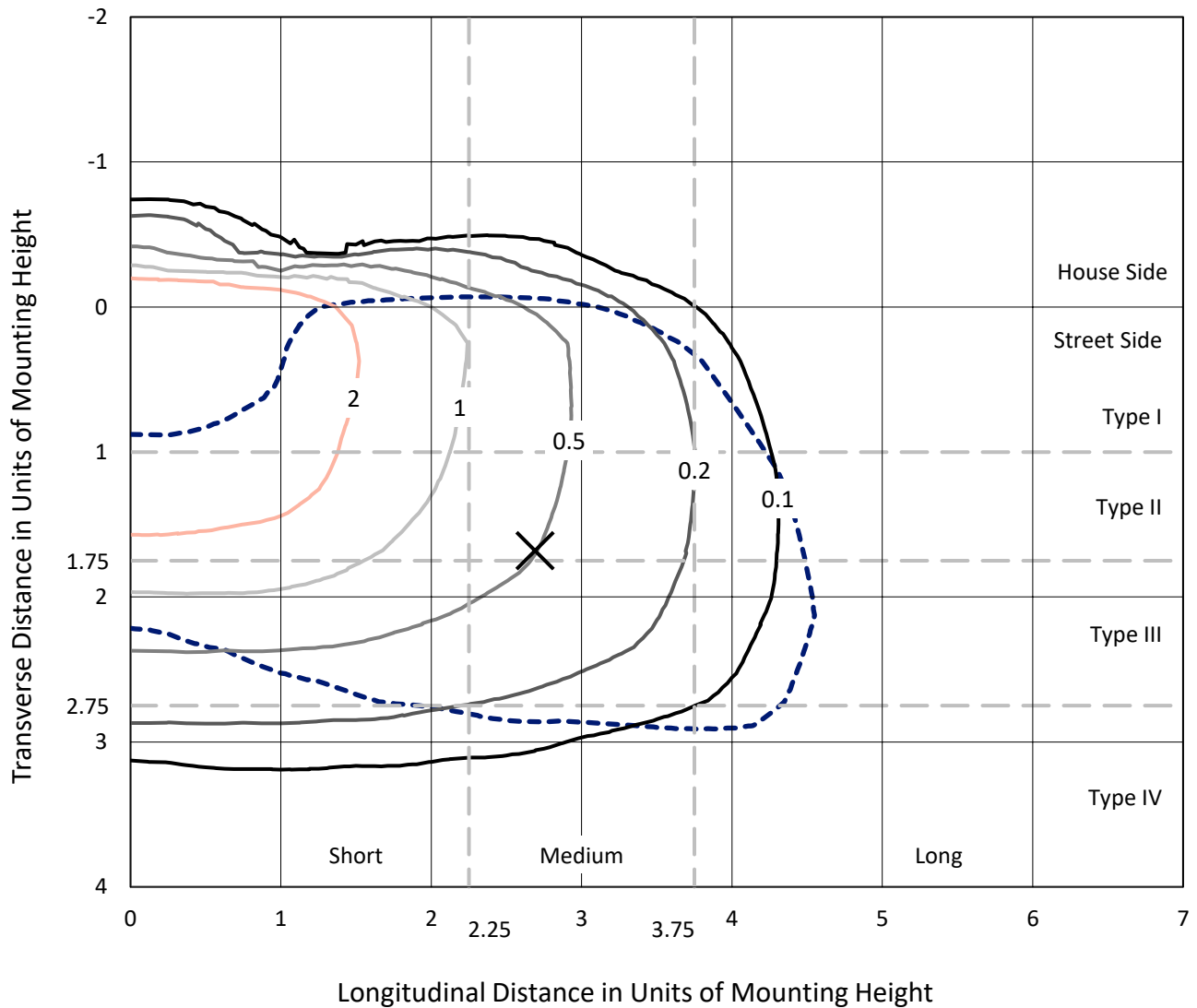
Input Watts (W): 229  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

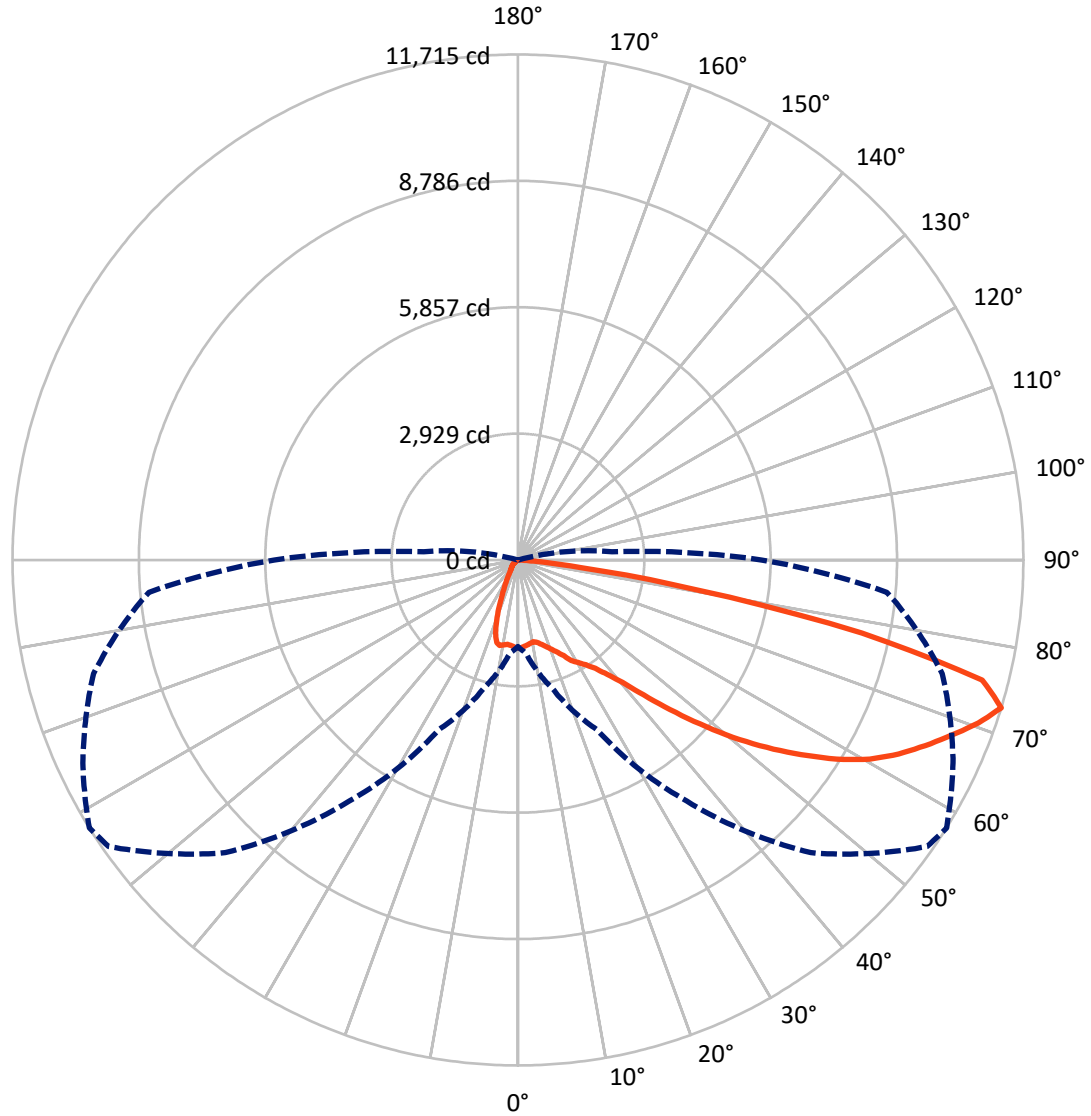
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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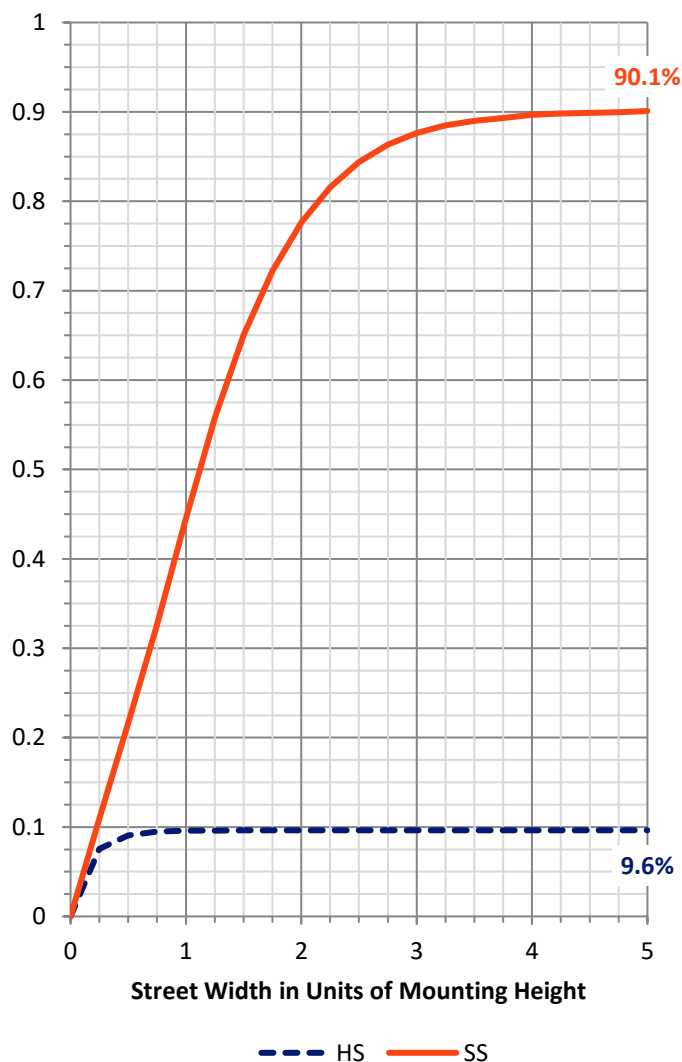
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1656.3	0.0	1656.3
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	15376.7	0.0	15376.7
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	17033.0	0.0	17033.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.6	1.1
10°-20°	488.5	2.9
20°-30°	767.5	4.5
30°-40°	1323.6	7.8
40°-50°	2518.2	14.8
50°-60°	3988.1	23.4
60°-70°	4653.6	27.3
70°-80°	2914.6	17.1
80°-90°	191.3	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°	17033.0	100.0
0°-180°	17033.0	100.0

**Coefficient of Utilization**



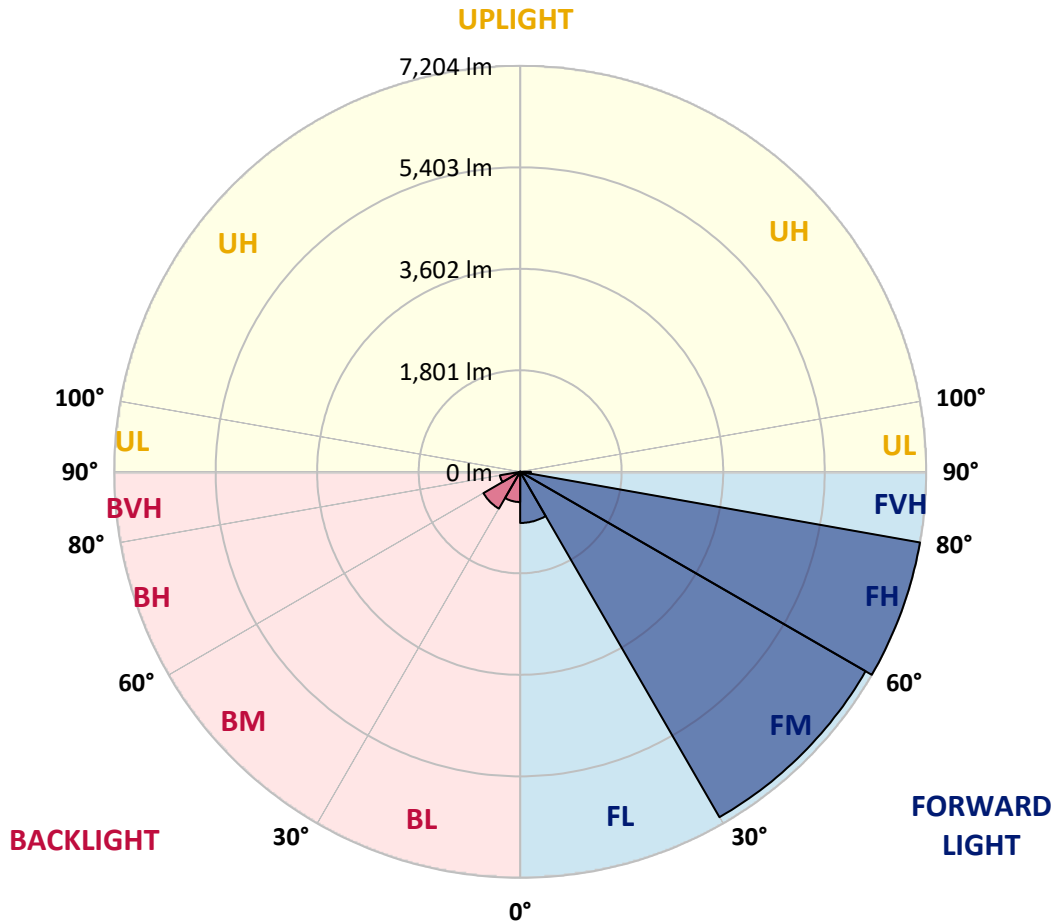
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	907.2	5.3			
FM (30°-60°)	7076.2	41.5			
FH (60°-80°)	7203.7	42.3			G3/7500
FVH (80°-90°)	189.5	1.1			G2/225
BL (0°-30°)	536.4	3.1	B2/1000		
BM (30°-60°)	753.7	4.4	B1/1000		
BH (60°-80°)	364.5	2.1	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2043.9	2043.9	2043.9	2043.9	2043.9	2043.9	2043.9	2043.9	2043.9	2043.9	2043.9
2.5°	2034.7	2025.6	2022.5	2019.5	2022.5	2025.6	2016.4	2025.6	2019.5	2022.5	2028.6
5°	1961.6	1952.5	1949.4	1952.5	1961.6	1976.8	1982.9	1992.1	1992.1	2001.2	2004.3
7.5°	1879.4	1873.3	1870.2	1876.3	1894.6	1928.1	1946.4	1958.6	1970.8	1989.0	2007.3
10°	1833.7	1830.6	1827.6	1836.7	1855.0	1885.5	1909.8	1928.1	1973.8	2025.6	2059.1
12.5°	1803.2	1803.2	1809.3	1827.6	1852.0	1876.3	1934.2	1958.6	2028.6	2107.8	2153.5
15°	1778.9	1778.9	1788.0	1821.5	1855.0	1912.9	1998.2	2025.6	2107.8	2205.3	2266.2
17.5°	1760.6	1766.7	1772.8	1806.3	1870.2	1967.7	2068.2	2107.8	2208.3	2314.9	2382.0
20°	1763.6	1769.7	1772.8	1806.3	1897.6	2031.7	2159.6	2205.3	2321.0	2433.7	2500.8
22.5°	1781.9	1791.0	1794.1	1839.8	1946.4	2098.7	2263.2	2314.9	2439.8	2558.6	2610.4
25°	1858.1	1864.1	1845.9	1885.5	2016.4	2202.2	2397.2	2452.0	2576.9	2686.6	2729.2
27.5°	2117.0	2123.1	2022.5	1976.8	2071.3	2287.5	2561.7	2637.8	2793.2	2866.3	2872.4
30°	2677.4	2683.5	2485.5	2269.3	2202.2	2360.6	2653.1	2759.7	2960.7	3042.9	3006.4
32.5°	3399.3	3393.2	3122.1	2802.3	2512.9	2488.6	2784.0	2896.7	3116.0	3195.2	3167.8
35°	4124.3	4133.4	3901.9	3420.6	3006.4	2729.2	2951.6	3082.5	3347.5	3460.2	3411.5
37.5°	4620.8	4681.7	4581.2	4060.3	3612.5	3173.9	3222.7	3362.8	3694.8	3847.1	3743.5
40°	5321.3	5306.1	5062.4	4678.6	4282.7	3831.8	3661.3	3728.3	4109.0	4313.1	4151.7
42.5°	6262.5	6232.1	5817.8	5443.2	5001.5	4632.9	4285.7	4273.5	4584.2	4821.8	4587.3
45°	7115.4	7069.7	6786.5	6424.0	5939.7	5516.3	5047.2	4940.6	5156.9	5357.9	5083.7
47.5°	7794.7	7718.5	7517.5	7325.6	7206.8	6548.9	5845.2	5683.8	5793.5	5942.7	5555.9
50°	8598.8	8388.6	8096.2	7980.5	8227.2	7718.5	6612.8	6457.5	6451.4	6536.7	6043.2
52.5°	8964.3	8583.6	8419.1	8516.6	8952.2	8805.9	7441.3	7219.0	7130.7	7139.8	6497.1
55°	8522.7	8480.0	8568.4	8873.0	9442.6	9357.3	8236.3	7962.2	7831.2	7666.7	6932.7
57.5°	8020.1	8151.1	8501.3	9083.1	10063.9	9933.0	9019.2	8708.5	8467.8	8090.1	7417.0
60°	7557.1	7691.1	8269.9	9131.9	10405.1	10487.3	9671.0	9375.5	9019.2	8522.7	7950.0
62.5°	6853.5	6957.0	7770.3	9061.8	10255.8	10810.2	10124.9	9902.5	9570.5	8933.9	8562.3
65°	6061.5	6128.5	6932.7	8501.3	9963.4	10773.7	10499.5	10374.6	10051.8	9363.4	9168.4
67.5°	5193.4	5272.6	5942.7	7493.1	9390.8	10603.1	10852.8	10840.7	10472.1	9838.5	9607.0
70°	4194.3	4200.4	4754.8	6213.8	8391.7	10261.9	11291.5	11318.9	10874.2	10194.9	9625.3
72.5°	2007.3	2171.8	3082.5	4337.5	6820.0	9591.8	11577.8	11714.9	11127.0	10182.7	8586.6
75°	459.9	475.2	898.6	2062.1	3999.4	7362.1	10862.0	11117.8	10511.7	8805.9	6049.3
77.5°	167.5	176.7	252.8	603.1	1538.2	3804.4	7773.4	8148.0	7770.3	5692.9	2860.2
80°	112.7	109.7	131.0	268.0	706.7	1078.3	3975.0	4197.4	3831.8	1943.3	685.3
82.5°	57.9	60.9	91.4	149.3	475.2	374.7	1328.0	1443.8	1187.9	389.9	127.9
85°	27.4	27.4	51.8	94.4	201.0	131.0	295.5	356.4	319.8	170.6	42.6
87.5°	27.4	27.4	48.7	60.9	103.6	54.8	73.1	91.4	85.3	91.4	15.2
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°	2043.9	2043.9	2043.9	2043.9	2043.9	2043.9	2043.9	2043.9	2043.9	2043.9	2043.9
2.5°	2028.6	2025.6	2022.5	2028.6	2025.6	2031.7	2031.7	2037.8	2037.8	2031.7	2028.6
5°	2001.2	1995.1	1989.0	1989.0	1986.0	1992.1	2010.4	2025.6	2028.6	2019.5	2016.4
7.5°	2004.3	2004.3	1998.2	1986.0	1964.7	1964.7	1964.7	1982.9	1992.1	1986.0	1982.9
10°	2059.1	2062.1	2046.9	2019.5	1982.9	1949.4	1885.5	1791.0	1702.7	1678.3	1669.2
12.5°	2153.5	2156.6	2126.1	2077.4	2001.2	1803.2	1559.5	1334.1	1160.5	1111.8	1102.6
15°	2266.2	2269.3	2214.4	2135.2	1903.7	1443.8	1081.3	825.5	673.2	636.6	633.6
17.5°	2382.0	2375.9	2293.6	2141.3	1614.4	1023.5	657.9	527.0	487.4	478.2	481.3
20°	2494.7	2476.4	2363.7	2028.6	1242.8	670.1	481.3	450.8	441.7	435.6	435.6
22.5°	2598.2	2561.7	2421.6	1806.3	871.2	481.3	429.5	423.4	411.2	402.1	399.0
25°	2701.8	2650.0	2458.1	1516.9	584.8	420.3	405.1	392.9	377.7	365.5	362.5
27.5°	2826.7	2753.6	2439.8	1151.4	438.6	389.9	377.7	359.4	338.1	319.8	313.7
30°	2945.5	2863.2	2336.3	795.0	374.7	359.4	341.2	313.7	286.3	265.0	258.9
32.5°	3094.7	3000.3	2150.5	520.9	325.9	313.7	295.5	262.0	225.4	201.0	194.9
35°	3307.9	3201.3	1912.9	365.5	286.3	265.0	240.6	204.1	164.5	146.2	143.2
37.5°	3606.4	3463.3	1614.4	295.5	252.8	222.4	185.8	149.3	121.8	106.6	103.6
40°	3972.0	3752.7	1282.4	262.0	225.4	185.8	140.1	106.6	88.3	76.1	76.1
42.5°	4367.9	4023.7	944.3	240.6	198.0	152.3	103.6	76.1	64.0	57.9	54.8
45°	4776.1	4264.4	636.6	222.4	173.6	115.7	73.1	51.8	42.6	42.6	39.6
47.5°	5199.5	4425.8	411.2	201.0	146.2	85.3	48.7	36.6	30.5	30.5	30.5
50°	5619.8	4511.1	292.4	182.8	118.8	57.9	36.6	27.4	24.4	24.4	24.4
52.5°	5924.4	4456.3	234.5	158.4	91.4	42.6	27.4	21.3	18.3	18.3	18.3
55°	6189.4	4361.9	204.1	137.1	67.0	30.5	21.3	18.3	15.2	15.2	15.2
57.5°	6460.5	4240.0	182.8	115.7	48.7	21.3	15.2	12.2	12.2	12.2	12.2
60°	6707.3	4032.9	158.4	91.4	33.5	15.2	12.2	9.1	9.1	9.1	9.1
62.5°	6947.9	3856.2	137.1	70.1	24.4	12.2	6.1	6.1	3.0	3.0	3.0
65°	7085.0	3618.6	109.7	45.7	15.2	9.1	3.0	3.0	0.0	0.0	0.0
67.5°	7042.3	3335.4	76.1	27.4	9.1	6.1	3.0	0.0	0.0	0.0	0.0
70°	6746.9	2954.6	45.7	15.2	9.1	6.1	3.0	0.0	0.0	0.0	0.0
72.5°	5650.3	2187.0	27.4	12.2	6.1	3.0	0.0	0.0	0.0	0.0	0.0
75°	3774.0	1005.2	15.2	9.1	3.0	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	1727.1	301.6	9.1	6.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	347.2	79.2	6.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	73.1	15.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	3.0	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)