

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: P399628

Luminaire Tested: **ARCH-L-PA3-170-727-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399628  
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-PA3-170-727-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 750mA 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: 15950 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

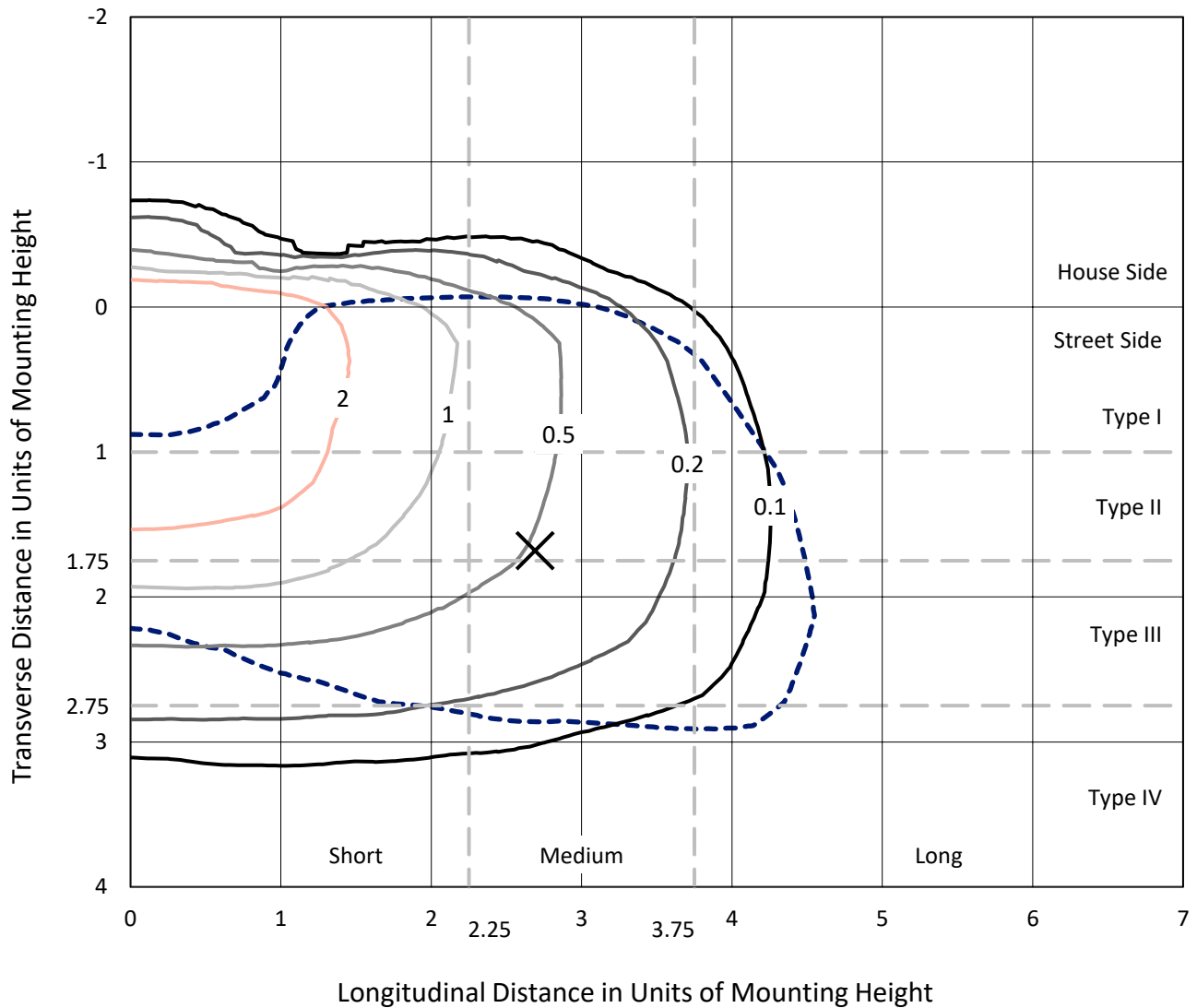
Input Watts (W): 173  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

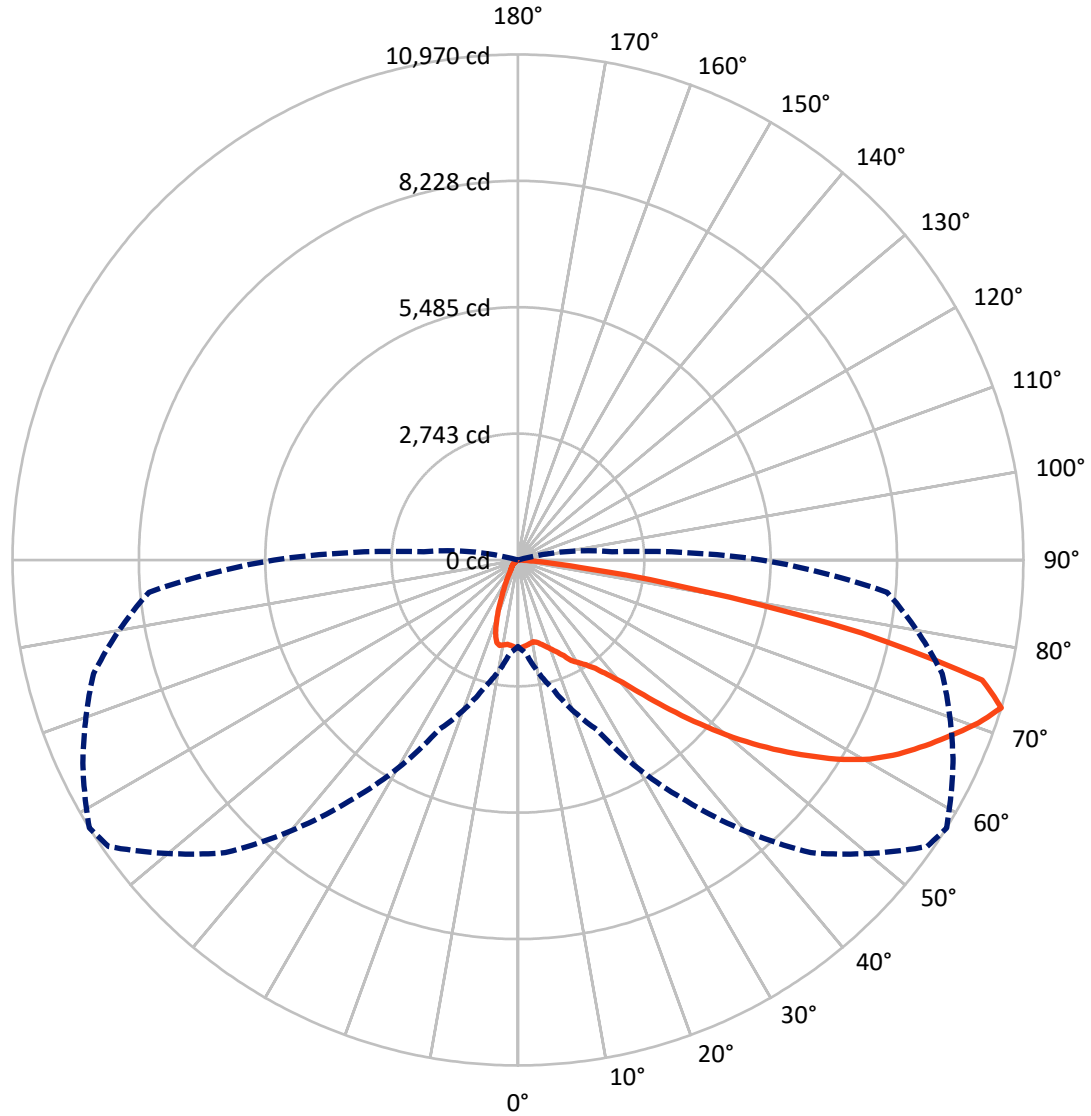
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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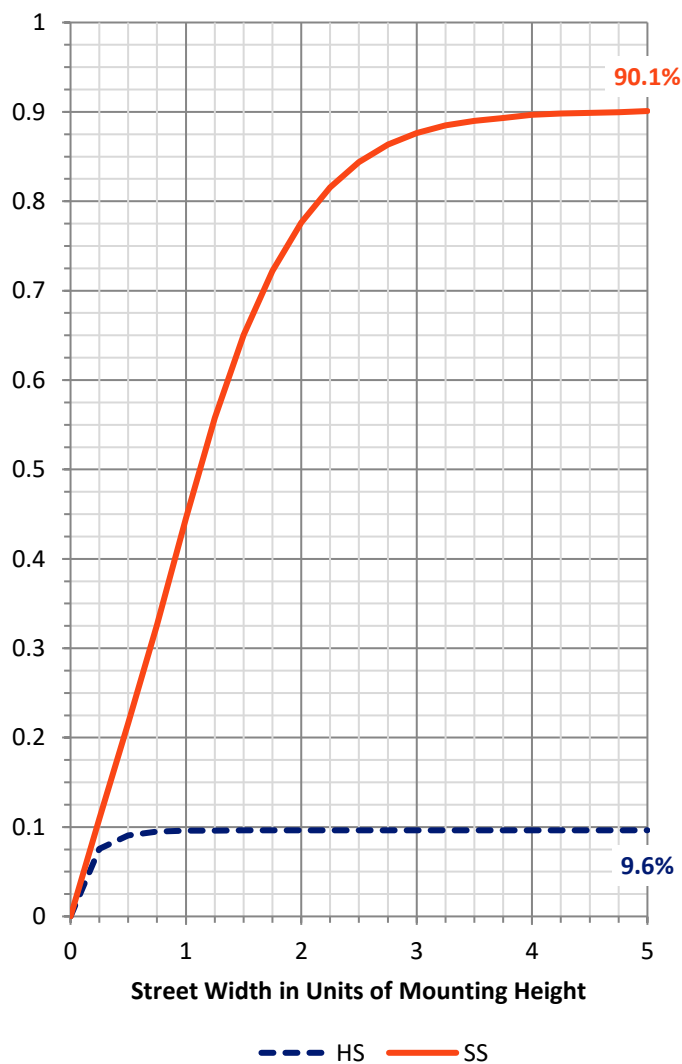
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1551.0	0.0	1551.0
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	14399.0	0.0	14399.0
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	15950.0	0.0	15950.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.7	1.1
10°-20°	457.5	2.9
20°-30°	718.7	4.5
30°-40°	1239.4	7.8
40°-50°	2358.1	14.8
50°-60°	3734.5	23.4
60°-70°	4357.7	27.3
70°-80°	2729.3	17.1
80°-90°	179.2	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°	15950.0	100.0
0°-180°	15950.0	100.0

**Coefficient of Utilization**

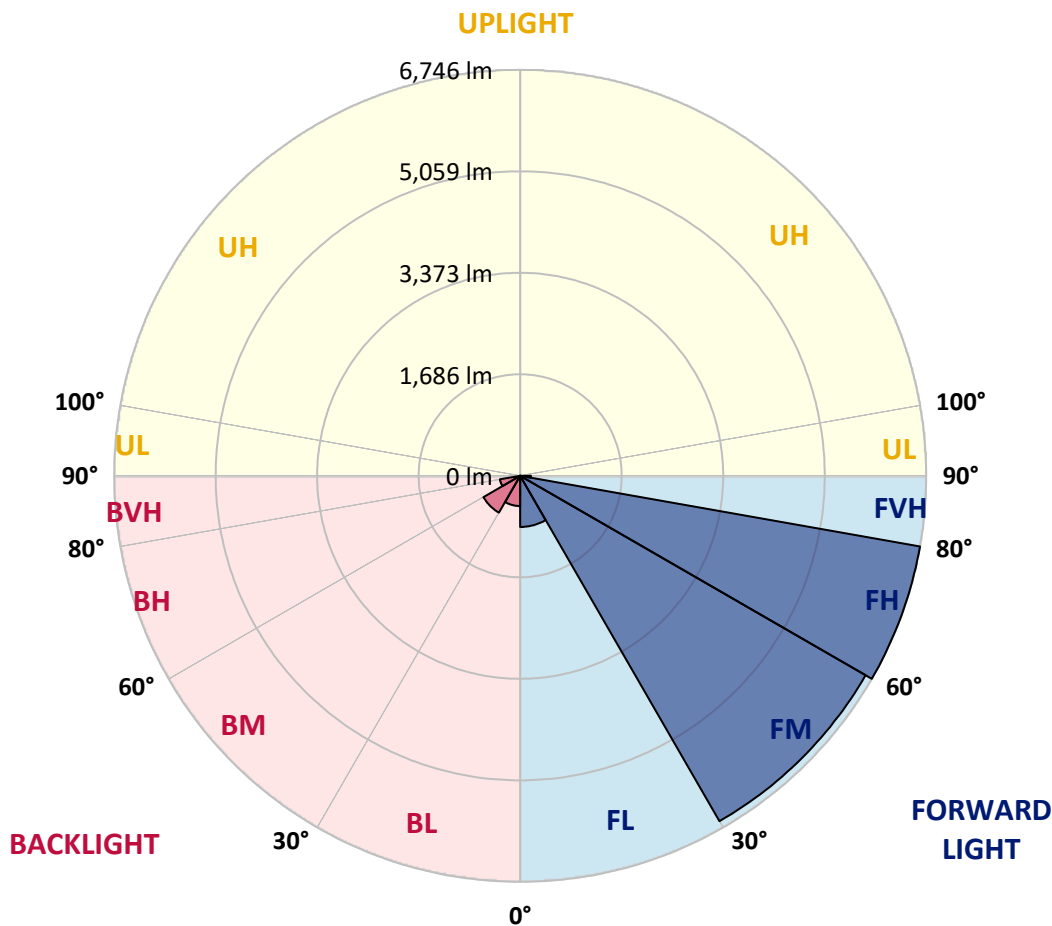


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.6	5.3			
FM (30°-60°)	6626.3	41.5			
FH (60°-80°)	6745.7	42.3			G3/7500
FVH (80°-90°)	177.4	1.1			G2/225
BL (0°-30°)	502.3	3.1	B2/1000		
BM (30°-60°)	705.7	4.4	B1/1000		
BH (60°-80°)	341.3	2.1	B1/500		G1/500
BVH (80°-90°)	1.7	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°	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9
2.5°	1905.3	1896.8	1893.9	1891.1	1893.9	1896.8	1888.2	1896.8	1891.1	1893.9	1899.6
5°	1836.9	1828.3	1825.5	1828.3	1836.9	1851.2	1856.9	1865.4	1865.4	1874.0	1876.8
7.5°	1759.9	1754.2	1751.3	1757.0	1774.1	1805.5	1822.6	1834.0	1845.4	1862.6	1879.7
10°	1717.1	1714.2	1711.4	1719.9	1737.1	1765.6	1788.4	1805.5	1848.3	1896.8	1928.2
12.5°	1688.6	1688.6	1694.3	1711.4	1734.2	1757.0	1811.2	1834.0	1899.6	1973.8	2016.6
15°	1665.8	1665.8	1674.3	1705.7	1737.1	1791.3	1871.1	1896.8	1973.8	2065.1	2122.1
17.5°	1648.6	1654.3	1660.0	1691.4	1751.3	1842.6	1936.7	1973.8	2067.9	2167.8	2230.5
20°	1651.5	1657.2	1660.0	1691.4	1777.0	1902.5	2022.3	2065.1	2173.5	2279.0	2341.7
22.5°	1668.6	1677.2	1680.0	1722.8	1822.6	1965.2	2119.3	2167.8	2284.7	2395.9	2444.4
25°	1739.9	1745.6	1728.5	1765.6	1888.2	2062.2	2244.8	2296.1	2413.1	2515.7	2555.7
27.5°	1982.4	1988.1	1893.9	1851.2	1939.6	2142.1	2398.8	2470.1	2615.6	2684.0	2689.7
30°	2507.2	2512.9	2327.5	2125.0	2062.2	2210.5	2484.4	2584.2	2772.4	2849.5	2815.2
32.5°	3183.2	3177.5	2923.6	2624.1	2353.2	2330.3	2607.0	2712.6	2917.9	2992.1	2966.4
35°	3862.0	3870.6	3653.8	3203.1	2815.2	2555.7	2763.9	2886.5	3134.7	3240.2	3194.6
37.5°	4327.0	4384.0	4289.9	3802.1	3382.8	2972.1	3017.7	3149.0	3459.9	3602.5	3505.5
40°	4983.0	4968.7	4740.5	4381.2	4010.4	3588.2	3428.5	3491.2	3847.8	4038.9	3887.7
42.5°	5864.4	5835.8	5447.9	5097.1	4683.5	4338.4	4013.2	4001.8	4292.7	4515.2	4295.6
45°	6663.0	6620.2	6355.0	6015.5	5562.0	5165.5	4726.3	4626.5	4829.0	5017.2	4760.5
47.5°	7299.1	7227.8	7039.5	6859.8	6748.6	6132.5	5473.6	5322.4	5425.1	5564.9	5202.6
50°	8052.1	7855.3	7581.5	7473.1	7704.1	7227.8	6192.4	6046.9	6041.2	6121.1	5659.0
52.5°	8394.4	8037.8	7883.8	7975.1	8383.0	8246.0	6968.2	6760.0	6677.3	6685.8	6084.0
55°	7980.8	7940.8	8023.6	8308.8	8842.2	8762.3	7712.7	7455.9	7333.3	7179.3	6491.9
57.5°	7510.1	7632.8	7960.8	8505.6	9424.0	9301.4	8445.7	8154.8	7929.4	7575.7	6945.4
60°	7076.6	7202.1	7744.0	8551.2	9743.5	9820.5	9056.1	8779.4	8445.7	7980.8	7444.5
62.5°	6417.7	6514.7	7276.3	8485.6	9603.7	10122.9	9481.1	9272.9	8962.0	8365.8	8017.9
65°	5676.1	5738.9	6491.9	7960.8	9329.9	10088.6	9831.9	9715.0	9412.6	8768.0	8585.5
67.5°	4863.2	4937.4	5564.9	7016.7	8793.7	9928.9	10162.8	10151.4	9806.3	9213.0	8996.2
70°	3927.6	3933.3	4452.5	5818.7	7858.1	9609.4	10573.5	10599.2	10182.8	9546.7	9013.3
72.5°	1879.7	2033.7	2886.5	4061.7	6386.3	8981.9	10841.6	10970.0	10419.5	9535.3	8040.7
75°	430.7	445.0	841.4	1931.0	3745.1	6894.0	10171.4	10410.9	9843.3	8246.0	5664.7
77.5°	156.9	165.4	236.7	564.8	1440.4	3562.5	7279.1	7629.9	7276.3	5331.0	2678.3
80°	105.5	102.7	122.6	251.0	661.7	1009.7	3722.3	3930.5	3588.2	1819.8	641.8
82.5°	54.2	57.0	85.6	139.8	445.0	350.8	1243.6	1352.0	1112.4	365.1	119.8
85°	25.7	25.7	48.5	88.4	188.3	122.6	276.7	333.7	299.5	159.7	39.9
87.5°	25.7	25.7	45.6	57.0	97.0	51.3	68.5	85.6	79.9	85.6	14.3
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°	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9
2.5°	1899.6	1896.8	1893.9	1899.6	1896.8	1902.5	1902.5	1908.2	1908.2	1902.5	1899.6
5°	1874.0	1868.3	1862.6	1862.6	1859.7	1865.4	1882.5	1896.8	1899.6	1891.1	1888.2
7.5°	1876.8	1876.8	1871.1	1859.7	1839.7	1839.7	1839.7	1856.9	1865.4	1859.7	1856.9
10°	1928.2	1931.0	1916.8	1891.1	1856.9	1825.5	1765.6	1677.2	1594.4	1571.6	1563.1
12.5°	2016.6	2019.4	1990.9	1945.3	1874.0	1688.6	1460.4	1249.3	1086.7	1041.1	1032.5
15°	2122.1	2125.0	2073.6	1999.5	1782.7	1352.0	1012.6	773.0	630.4	596.1	593.3
17.5°	2230.5	2224.8	2147.8	2005.2	1511.7	958.4	616.1	493.5	456.4	447.8	450.7
20°	2336.0	2318.9	2213.4	1899.6	1163.7	627.5	450.7	422.1	413.6	407.9	407.9
22.5°	2433.0	2398.8	2267.6	1691.4	815.8	450.7	402.2	396.5	385.1	376.5	373.7
25°	2530.0	2481.5	2301.8	1420.5	547.6	393.6	379.4	367.9	353.7	342.3	339.4
27.5°	2646.9	2578.5	2284.7	1078.2	410.7	365.1	353.7	336.6	316.6	299.5	293.8
30°	2758.2	2681.2	2187.7	744.5	350.8	336.6	319.5	293.8	268.1	248.2	242.4
32.5°	2898.0	2809.5	2013.7	487.7	305.2	293.8	276.7	245.3	211.1	188.3	182.5
35°	3097.6	2997.8	1791.3	342.3	268.1	248.2	225.3	191.1	154.0	136.9	134.1
37.5°	3377.1	3243.1	1511.7	276.7	236.7	208.2	174.0	139.8	114.1	99.8	97.0
40°	3719.4	3514.1	1200.8	245.3	211.1	174.0	131.2	99.8	82.7	71.3	71.3
42.5°	4090.2	3767.9	884.2	225.3	185.4	142.6	97.0	71.3	59.9	54.2	51.3
45°	4472.4	3993.2	596.1	208.2	162.6	108.4	68.5	48.5	39.9	39.9	37.1
47.5°	4868.9	4144.4	385.1	188.3	136.9	79.9	45.6	34.2	28.5	28.5	28.5
50°	5262.5	4224.3	273.8	171.1	111.2	54.2	34.2	25.7	22.8	22.8	22.8
52.5°	5547.8	4172.9	219.6	148.3	85.6	39.9	25.7	20.0	17.1	17.1	17.1
55°	5795.9	4084.5	191.1	128.4	62.8	28.5	20.0	17.1	14.3	14.3	14.3
57.5°	6049.8	3970.4	171.1	108.4	45.6	20.0	14.3	11.4	11.4	11.4	11.4
60°	6280.8	3776.5	148.3	85.6	31.4	14.3	11.4	8.6	8.6	8.6	8.6
62.5°	6506.1	3611.0	128.4	65.6	22.8	11.4	5.7	5.7	2.9	2.9	2.9
65°	6634.5	3388.5	102.7	42.8	14.3	8.6	2.9	2.9	0.0	0.0	0.0
67.5°	6594.6	3123.3	71.3	25.7	8.6	5.7	2.9	0.0	0.0	0.0	0.0
70°	6317.9	2766.7	42.8	14.3	8.6	5.7	2.9	0.0	0.0	0.0	0.0
72.5°	5291.0	2048.0	25.7	11.4	5.7	2.9	0.0	0.0	0.0	0.0	0.0
75°	3534.0	941.3	14.3	8.6	2.9	2.9	0.0	0.0	0.0	0.0	0.0
77.5°	1617.3	282.4	8.6	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	325.2	74.2	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	68.5	14.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	2.9	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)