

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: P399376

Luminaire Tested: **ARCH-L-PA3-130-760-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399376  
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-PA3-130-760-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 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: 15426 lumens  
Efficiency: N/A  
Efficacy: 116.0 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

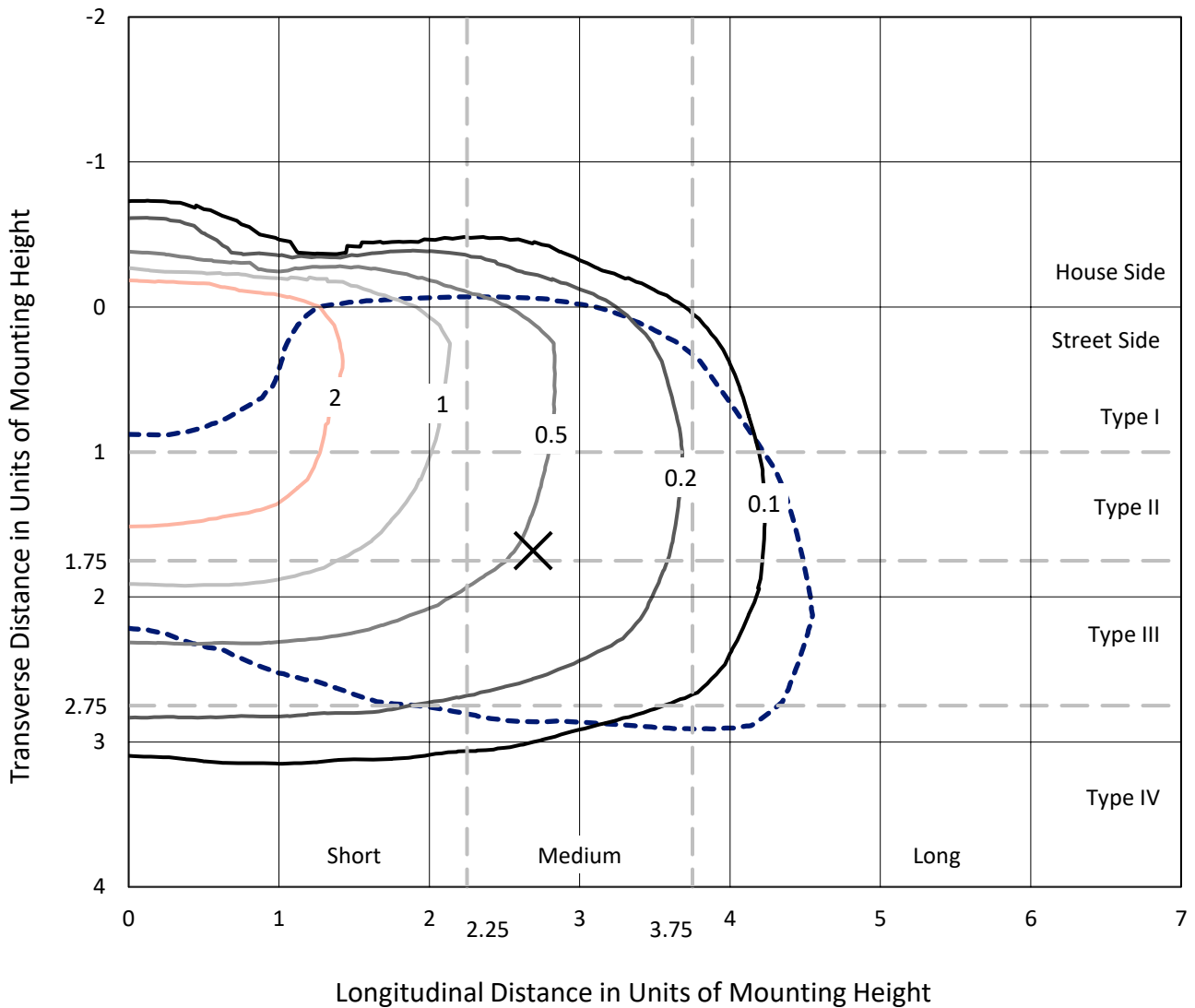
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

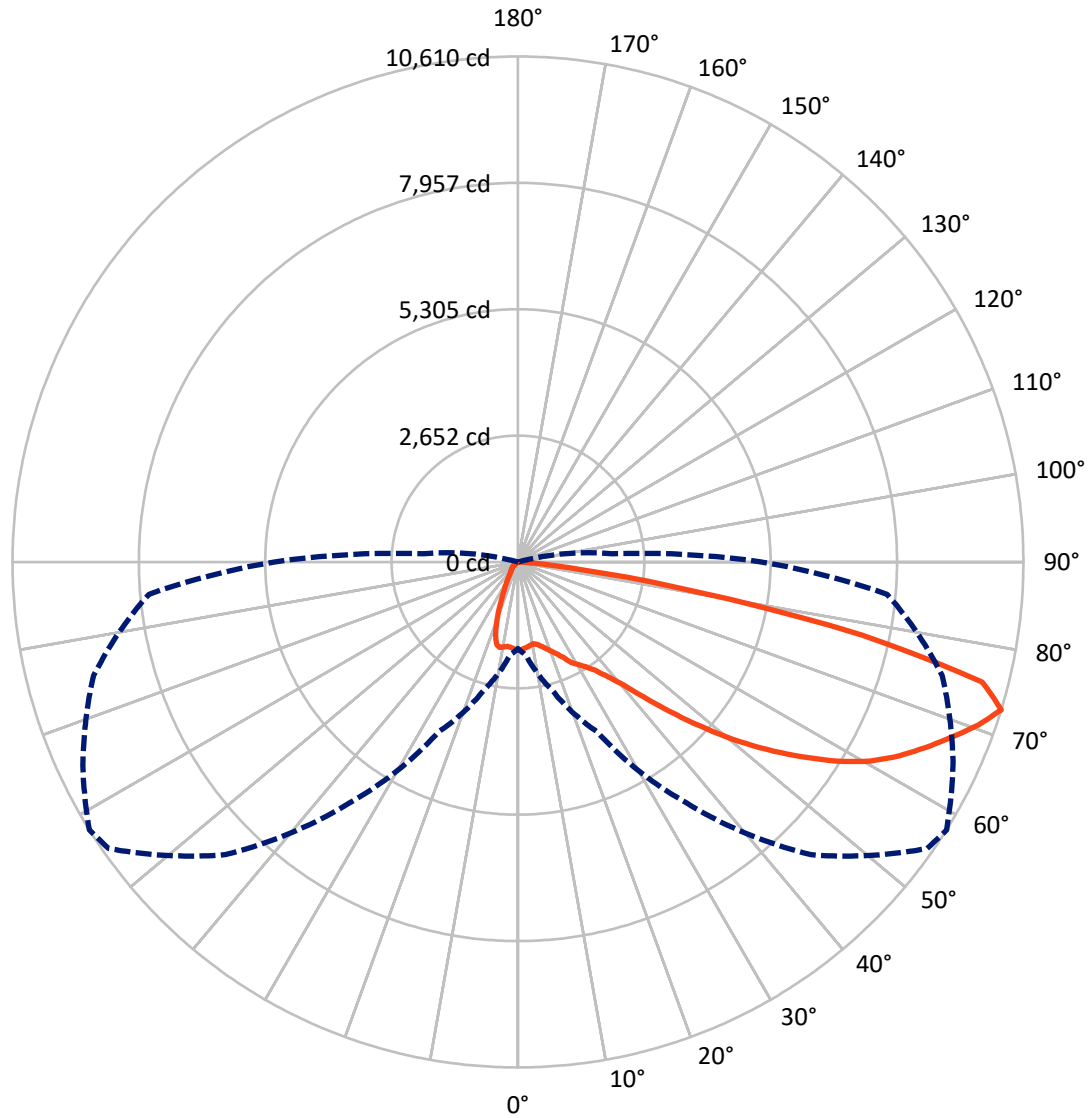
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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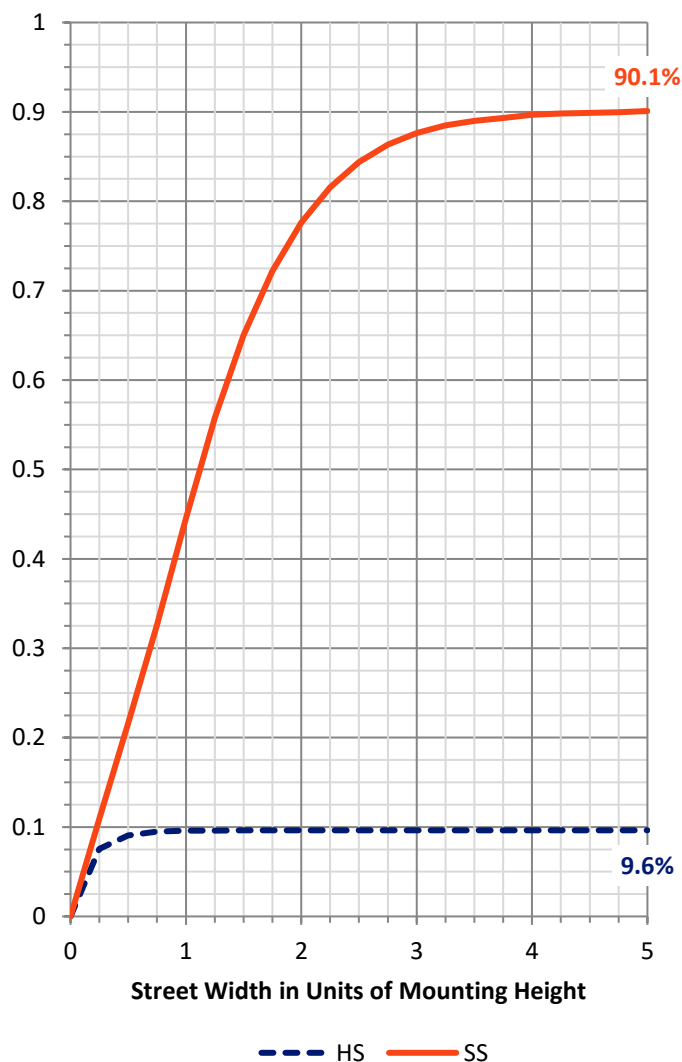
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1500.1	0.0	1500.1
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	13925.9	0.0	13925.9
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	15426.0	0.0	15426.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.9	1.1
10°-20°	442.5	2.9
20°-30°	695.1	4.5
30°-40°	1198.7	7.8
40°-50°	2280.6	14.8
50°-60°	3611.8	23.4
60°-70°	4214.6	27.3
70°-80°	2639.6	17.1
80°-90°	173.3	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°	15426.0	100.0
0°-180°	15426.0	100.0

**Coefficient of Utilization**



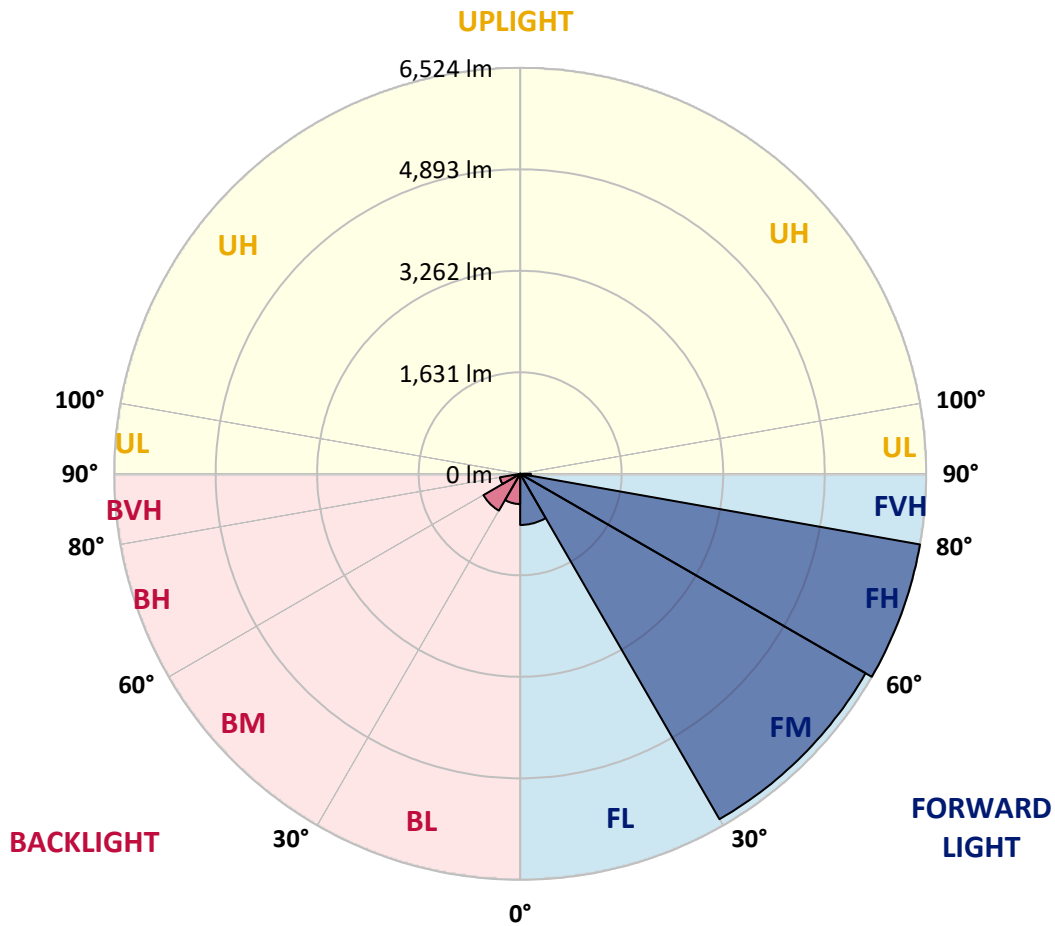
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.6	5.3			
FM (30°-60°)	6408.6	41.5			
FH (60°-80°)	6524.1	42.3			G3/7500
FVH (80°-90°)	171.6	1.1			G2/225
BL (0°-30°)	485.8	3.1	B1/500		
BM (30°-60°)	682.5	4.4	B1/1000		
BH (60°-80°)	330.1	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: 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°	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0
2.5°	1842.8	1834.5	1831.7	1829.0	1831.7	1834.5	1826.2	1834.5	1829.0	1831.7	1837.2
5°	1776.5	1768.3	1765.5	1768.3	1776.5	1790.3	1795.9	1804.1	1804.1	1812.4	1815.2
7.5°	1702.1	1696.5	1693.8	1699.3	1715.9	1746.2	1762.8	1773.8	1784.8	1801.4	1817.9
10°	1660.7	1657.9	1655.2	1663.4	1680.0	1707.6	1729.6	1746.2	1787.6	1834.5	1864.8
12.5°	1633.1	1633.1	1638.6	1655.2	1677.2	1699.3	1751.7	1773.8	1837.2	1909.0	1950.3
15°	1611.0	1611.0	1619.3	1649.6	1680.0	1732.4	1809.6	1834.5	1909.0	1997.2	2052.4
17.5°	1594.5	1600.0	1605.5	1635.9	1693.8	1782.1	1873.1	1909.0	2000.0	2096.5	2157.2
20°	1597.2	1602.8	1605.5	1635.9	1718.6	1840.0	1955.9	1997.2	2102.1	2204.1	2264.8
22.5°	1613.8	1622.1	1624.8	1666.2	1762.8	1900.7	2049.6	2096.5	2209.6	2317.2	2364.1
25°	1682.8	1688.3	1671.7	1707.6	1826.2	1994.5	2171.0	2220.7	2333.8	2433.1	2471.7
27.5°	1917.2	1922.7	1831.7	1790.3	1875.9	2071.7	2320.0	2389.0	2529.6	2595.9	2601.4
30°	2424.8	2430.3	2251.0	2055.2	1994.5	2137.9	2402.7	2499.3	2681.4	2755.8	2722.7
32.5°	3078.6	3073.1	2827.6	2537.9	2275.9	2253.8	2521.4	2623.4	2822.1	2893.8	2869.0
35°	3735.2	3743.4	3533.8	3097.9	2722.7	2471.7	2673.1	2791.7	3031.7	3133.8	3089.6
37.5°	4184.8	4240.0	4148.9	3677.2	3271.7	2874.5	2918.6	3045.5	3346.2	3484.1	3390.3
40°	4819.3	4805.5	4584.8	4237.2	3878.6	3470.3	3315.8	3376.5	3721.4	3906.2	3760.0
42.5°	5671.7	5644.1	5268.9	4929.6	4529.6	4195.8	3881.4	3870.3	4151.7	4366.9	4154.5
45°	6444.1	6402.7	6146.2	5817.9	5379.3	4995.8	4571.0	4474.5	4670.3	4852.4	4604.1
47.5°	7059.3	6990.3	6808.2	6634.5	6526.9	5931.0	5293.8	5147.6	5246.9	5382.0	5031.7
50°	7787.6	7597.2	7332.4	7227.6	7451.0	6990.3	5988.9	5848.2	5842.7	5920.0	5473.1
52.5°	8118.6	7773.8	7624.8	7713.1	8107.5	7975.1	6739.3	6537.9	6457.9	6466.2	5884.1
55°	7718.6	7680.0	7760.0	8035.8	8551.7	8474.4	7459.3	7211.0	7092.4	6943.4	6278.6
57.5°	7263.4	7382.0	7699.3	8226.2	9114.4	8995.8	8168.2	7886.9	7668.9	7326.9	6717.2
60°	6844.1	6965.5	7489.6	8270.3	9423.4	9497.9	8758.6	8491.0	8168.2	7718.6	7200.0
62.5°	6206.9	6300.7	7037.2	8206.9	9288.2	9790.3	9169.6	8968.2	8667.5	8091.0	7754.4
65°	5489.6	5550.3	6278.6	7699.3	9023.4	9757.2	9508.9	9395.8	9103.4	8480.0	8303.4
67.5°	4703.4	4775.2	5382.0	6786.2	8504.8	9602.7	9828.9	9817.9	9484.1	8910.3	8700.6
70°	3798.6	3804.1	4306.2	5627.6	7600.0	9293.8	10226.2	10251.0	9848.2	9233.1	8717.2
72.5°	1817.9	1966.9	2791.7	3928.3	6176.5	8686.9	10485.5	10609.6	10077.2	9222.0	7776.5
75°	416.5	430.3	813.8	1867.6	3622.1	6667.6	9837.2	10068.9	9520.0	7975.1	5478.6
77.5°	151.7	160.0	229.0	546.2	1393.1	3445.5	7040.0	7379.3	7037.2	5155.8	2590.3
80°	102.1	99.3	118.6	242.8	640.0	976.5	3600.0	3801.4	3470.3	1760.0	620.7
82.5°	52.4	55.2	82.8	135.2	430.3	339.3	1202.8	1307.6	1075.9	353.1	115.9
85°	24.8	24.8	46.9	85.5	182.1	118.6	267.6	322.8	289.7	154.5	38.6
87.5°	24.8	24.8	44.1	55.2	93.8	49.7	66.2	82.8	77.2	82.8	13.8
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°	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0
2.5°	1837.2	1834.5	1831.7	1837.2	1834.5	1840.0	1840.0	1845.5	1845.5	1840.0	1837.2
5°	1812.4	1806.9	1801.4	1801.4	1798.6	1804.1	1820.7	1834.5	1837.2	1829.0	1826.2
7.5°	1815.2	1815.2	1809.6	1798.6	1779.3	1779.3	1779.3	1795.9	1804.1	1798.6	1795.9
10°	1864.8	1867.6	1853.8	1829.0	1795.9	1765.5	1707.6	1622.1	1542.1	1520.0	1511.7
12.5°	1950.3	1953.1	1925.5	1881.4	1812.4	1633.1	1412.4	1208.3	1051.0	1006.9	998.6
15°	2052.4	2055.2	2005.5	1933.8	1724.1	1307.6	979.3	747.6	609.7	576.5	573.8
17.5°	2157.2	2151.7	2077.2	1939.3	1462.1	926.9	595.9	477.2	441.4	433.1	435.9
20°	2259.3	2242.7	2140.7	1837.2	1125.5	606.9	435.9	408.3	400.0	394.5	394.5
22.5°	2353.1	2320.0	2193.1	1635.9	789.0	435.9	389.0	383.4	372.4	364.1	361.4
25°	2446.9	2400.0	2226.2	1373.8	529.7	380.7	366.9	355.9	342.1	331.0	328.3
27.5°	2560.0	2493.8	2209.6	1042.8	397.2	353.1	342.1	325.5	306.2	289.7	284.1
30°	2667.6	2593.1	2115.9	720.0	339.3	325.5	309.0	284.1	259.3	240.0	234.5
32.5°	2802.7	2717.2	1947.6	471.7	295.2	284.1	267.6	237.2	204.1	182.1	176.6
35°	2995.8	2899.3	1732.4	331.0	259.3	240.0	217.9	184.8	149.0	132.4	129.7
37.5°	3266.2	3136.5	1462.1	267.6	229.0	201.4	168.3	135.2	110.3	96.6	93.8
40°	3597.2	3398.6	1161.4	237.2	204.1	168.3	126.9	96.6	80.0	69.0	69.0
42.5°	3955.8	3644.1	855.2	217.9	179.3	137.9	93.8	69.0	57.9	52.4	49.7
45°	4325.5	3862.1	576.5	201.4	157.2	104.8	66.2	46.9	38.6	38.6	35.9
47.5°	4708.9	4008.3	372.4	182.1	132.4	77.2	44.1	33.1	27.6	27.6	27.6
50°	5089.6	4085.5	264.8	165.5	107.6	52.4	33.1	24.8	22.1	22.1	22.1
52.5°	5365.5	4035.8	212.4	143.4	82.8	38.6	24.8	19.3	16.6	16.6	16.6
55°	5605.5	3950.3	184.8	124.1	60.7	27.6	19.3	16.6	13.8	13.8	13.8
57.5°	5851.0	3840.0	165.5	104.8	44.1	19.3	13.8	11.0	11.0	11.0	11.0
60°	6074.5	3652.4	143.4	82.8	30.3	13.8	11.0	8.3	8.3	8.3	8.3
62.5°	6292.4	3492.4	124.1	63.4	22.1	11.0	5.5	5.5	2.8	2.8	2.8
65°	6416.5	3277.2	99.3	41.4	13.8	8.3	2.8	2.8	0.0	0.0	0.0
67.5°	6377.9	3020.7	69.0	24.8	8.3	5.5	2.8	0.0	0.0	0.0	0.0
70°	6110.3	2675.8	41.4	13.8	8.3	5.5	2.8	0.0	0.0	0.0	0.0
72.5°	5117.2	1980.7	24.8	11.0	5.5	2.8	0.0	0.0	0.0	0.0	0.0
75°	3417.9	910.3	13.8	8.3	2.8	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	1564.1	273.1	8.3	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	314.5	71.7	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.2	13.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	2.8	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)