

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: P399530

Luminaire Tested: **ARCH-L-PA3-150-827-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-150-827-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17505 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3

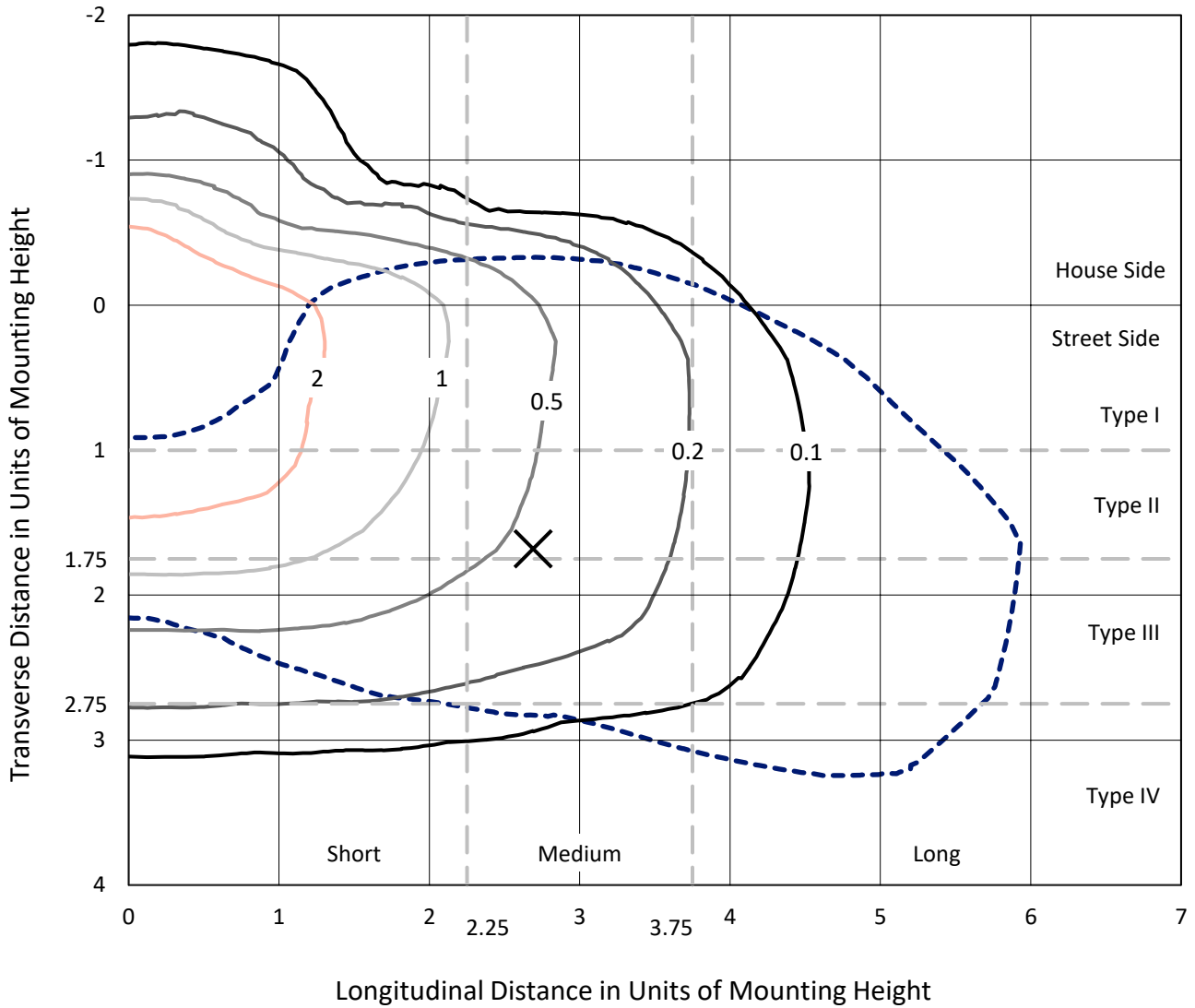
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

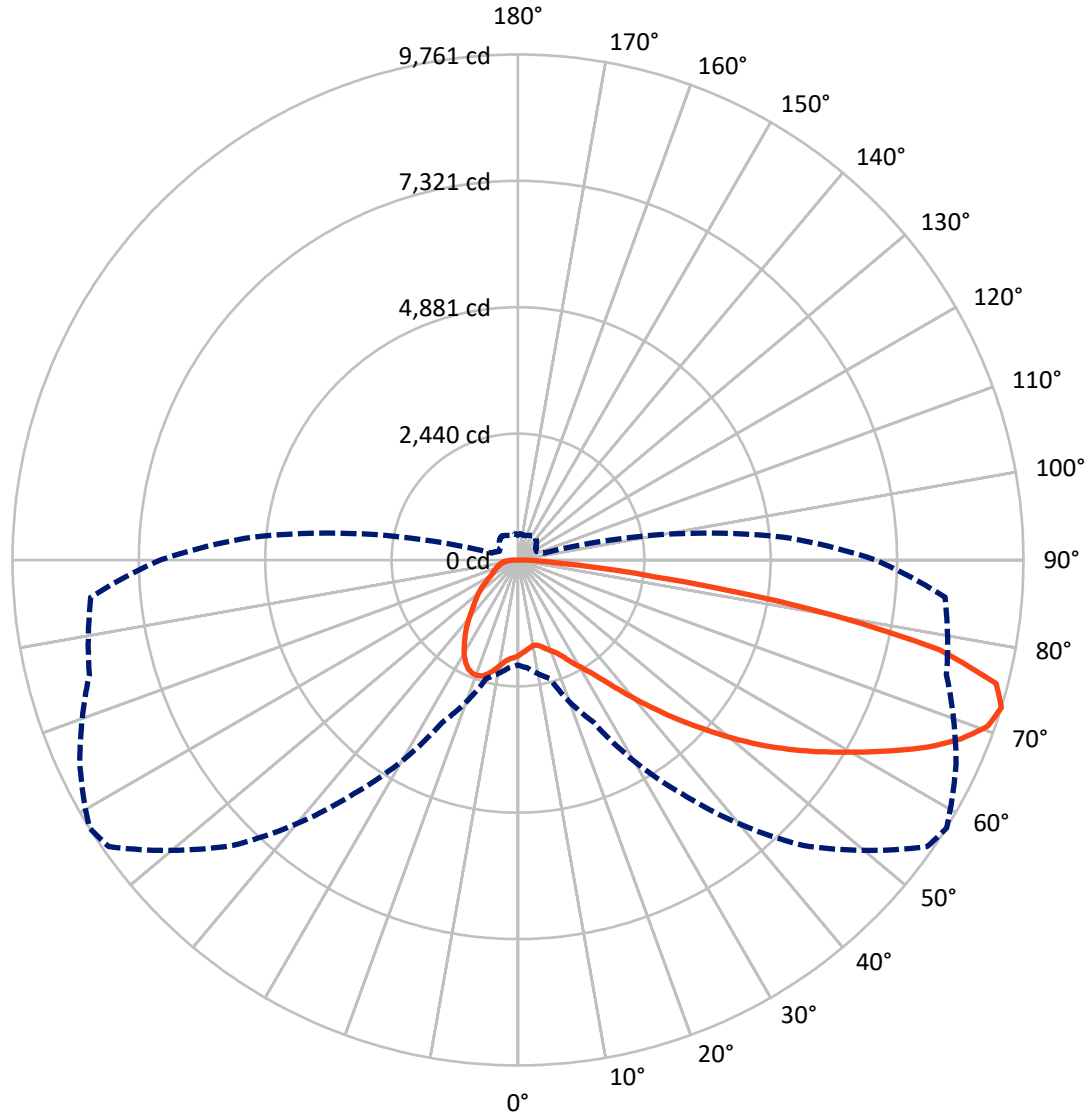
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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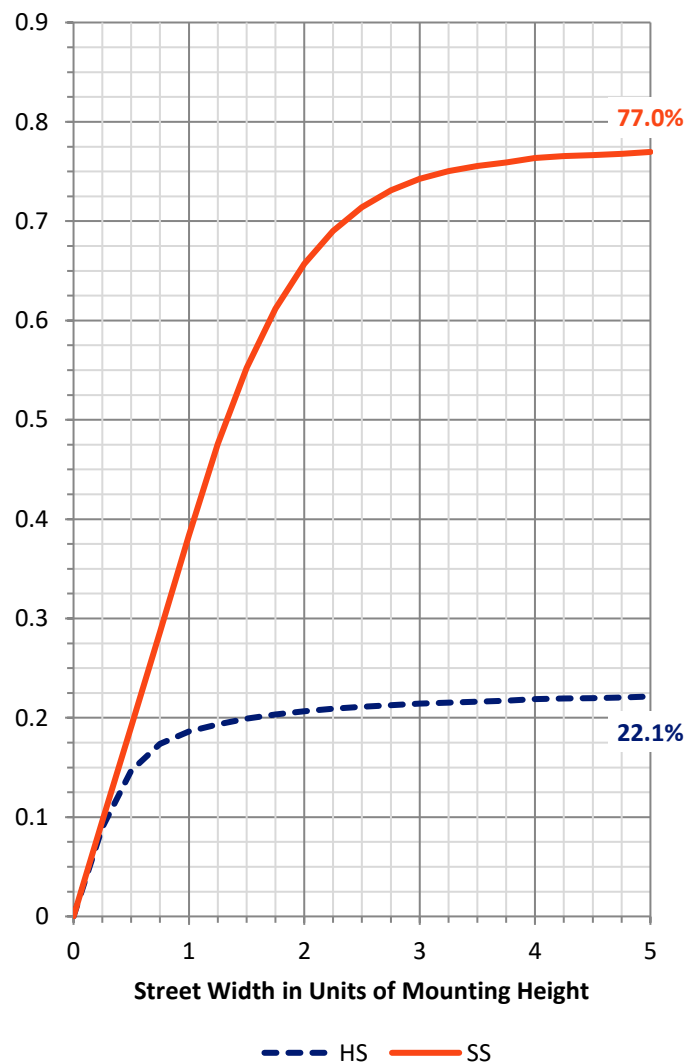
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3969.9	0.0	3969.9
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	13535.1	0.0	13535.1
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	17505.0	0.0	17505.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.9	1.0
10°-20°	564.9	3.2
20°-30°	1011.9	5.8
30°-40°	1522.1	8.7
40°-50°	2464.8	14.1
50°-60°	3710.4	21.2
60°-70°	4366.7	24.9
70°-80°	3096.4	17.7
80°-90°	590.0	3.4
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°	17505.0	100.0
0°-180°	17505.0	100.0



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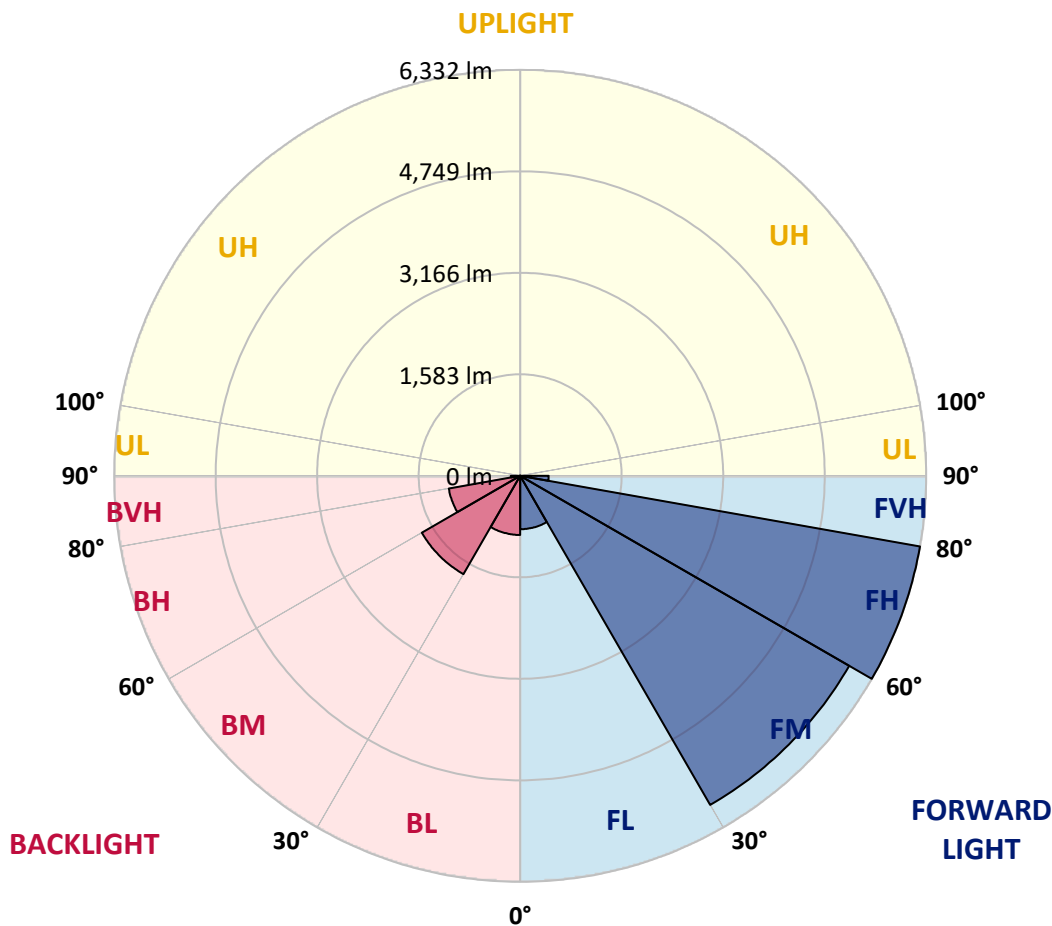
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.4	4.8			
FM (30°-60°)	5925.9	33.9			
FH (60°-80°)	6331.6	36.2			G3/7500
FVH (80°-90°)	445.0	2.5			G3/500
BL (0°-30°)	922.1	5.3	B2/1000		
BM (30°-60°)	1771.4	10.1	B2/2500		
BH (60°-80°)	1131.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	145.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1846.4	1846.4	1846.4	1846.4	1846.4	1846.4	1846.4	1846.4	1846.4	1846.4	1846.4
2.5°	1777.1	1767.8	1770.1	1770.1	1779.4	1784.0	1786.3	1793.3	1797.9	1809.4	1825.6
5°	1693.9	1687.0	1689.3	1691.6	1707.8	1723.9	1737.8	1747.0	1760.9	1779.4	1802.5
7.5°	1633.8	1629.2	1631.5	1636.1	1650.0	1668.5	1691.6	1705.4	1726.2	1760.9	1800.2
10°	1589.9	1589.9	1592.2	1601.5	1615.3	1638.4	1656.9	1673.1	1714.7	1777.1	1837.2
12.5°	1555.2	1555.2	1562.2	1580.7	1603.8	1626.9	1670.8	1689.3	1744.7	1830.2	1901.9
15°	1552.9	1555.2	1557.5	1573.7	1599.1	1650.0	1714.7	1742.4	1809.4	1911.1	1994.3
17.5°	1589.9	1592.2	1583.0	1587.6	1617.6	1689.3	1774.8	1807.1	1892.6	2003.5	2089.0
20°	1703.1	1703.1	1675.4	1650.0	1670.8	1749.3	1846.4	1878.8	1973.5	2096.0	2181.5
22.5°	1934.2	1945.8	1881.1	1825.6	1793.3	1837.2	1925.0	1959.6	2065.9	2197.7	2283.2
25°	2213.8	2225.4	2137.6	2059.0	1998.9	1992.0	2049.8	2086.7	2174.6	2310.9	2382.5
27.5°	2484.2	2463.4	2382.5	2308.6	2232.3	2169.9	2213.8	2246.2	2347.9	2451.9	2495.8
30°	2696.8	2680.6	2602.1	2548.9	2477.3	2396.4	2371.0	2405.6	2488.8	2585.9	2609.0
32.5°	2932.5	2921.0	2842.4	2773.1	2713.0	2636.7	2581.3	2597.4	2643.7	2713.0	2726.9
35°	3232.9	3258.4	3175.2	3034.2	2967.2	2893.2	2854.0	2858.6	2893.2	2937.1	2914.0
37.5°	3549.5	3579.6	3584.2	3362.4	3272.2	3205.2	3163.6	3179.8	3221.4	3251.4	3179.8
40°	4136.5	4106.5	3986.3	3822.2	3683.6	3618.9	3561.1	3558.8	3588.8	3642.0	3512.6
42.5°	4915.3	4887.5	4644.9	4432.3	4212.8	4138.8	4025.6	3977.1	3990.9	4057.9	3877.7
45°	5661.7	5650.1	5456.0	5208.8	4945.3	4802.0	4543.2	4425.4	4413.8	4467.0	4252.0
47.5°	6324.9	6274.1	6133.1	5941.3	5913.6	5539.2	5063.2	4903.7	4848.3	4878.3	4638.0
50°	7034.4	6861.0	6666.9	6549.1	6750.1	6401.2	5587.7	5421.4	5285.0	5305.8	5056.2
52.5°	7411.0	7119.9	6992.8	7027.4	7297.8	7163.8	6158.5	5955.2	5735.6	5765.7	5472.2
55°	7087.5	7085.2	7140.7	7355.6	7732.3	7577.4	6701.6	6472.8	6232.5	6239.4	5950.6
57.5°	6643.8	6733.9	7020.5	7494.2	8270.7	8011.9	7235.4	6992.8	6773.2	6738.6	6493.6
60°	6239.4	6338.8	6754.7	7471.1	8457.9	8409.3	7743.8	7531.2	7353.3	7251.6	7064.4
62.5°	5624.7	5698.7	6287.9	7323.2	8300.7	8695.9	8259.1	8113.6	7979.5	7769.2	7679.1
65°	4901.4	4926.8	5548.5	6835.6	8104.3	8806.8	8772.2	8707.5	8578.0	8268.4	8286.9
67.5°	4118.0	4168.9	4714.2	6056.9	7674.5	8756.0	9169.6	9222.8	9070.3	8605.8	8675.1
70°	3283.8	3346.2	3759.8	4980.0	6944.2	8536.4	9537.1	9622.6	9329.1	8716.7	8746.7
72.5°	2031.3	2091.4	2368.7	3459.4	5504.6	7799.3	9650.3	9761.2	9336.0	8568.8	8279.9
75°	702.5	709.4	926.7	1659.2	3267.6	5888.2	9280.6	9541.7	9042.5	8030.4	7205.4
77.5°	321.2	332.8	411.3	684.0	1448.9	3177.5	7662.9	8316.9	8150.5	7189.2	5546.1
80°	221.8	226.5	284.2	409.0	836.5	1118.5	4836.7	5689.4	5980.6	5566.9	3554.2
82.5°	166.4	171.0	219.5	277.3	603.1	543.1	1841.8	2643.7	3286.1	3226.0	1485.9
85°	159.5	157.1	171.0	184.9	402.1	323.5	596.2	818.1	1282.5	1097.7	374.4
87.5°	69.3	76.3	175.6	104.0	210.3	150.2	258.8	302.7	390.5	339.7	134.0
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°	1846.4	1846.4	1846.4	1846.4	1846.4	1846.4	1846.4	1846.4	1846.4	1846.4	1846.4
2.5°	1832.5	1837.2	1851.0	1871.8	1883.4	1906.5	1922.7	1931.9	1938.8	1941.2	1941.2
5°	1816.4	1825.6	1855.6	1890.3	1922.7	1971.2	2015.1	2040.5	2059.0	2065.9	2068.3
7.5°	1821.0	1844.1	1888.0	1938.8	1980.4	2042.8	2096.0	2146.8	2188.4	2204.6	2204.6
10°	1864.9	1897.2	1957.3	2024.3	2077.5	2142.2	2197.7	2241.6	2290.1	2317.8	2322.4
12.5°	1931.9	1971.2	2049.8	2123.7	2183.8	2234.6	2285.5	2317.8	2340.9	2361.7	2366.4
15°	2026.7	2075.2	2153.8	2230.0	2283.2	2315.5	2329.4	2329.4	2327.1	2329.4	2334.0
17.5°	2121.4	2167.6	2246.2	2322.4	2347.9	2329.4	2313.2	2308.6	2306.3	2301.7	2304.0
20°	2213.8	2257.7	2324.8	2382.5	2361.7	2297.0	2276.2	2273.9	2267.0	2262.4	2257.7
22.5°	2306.3	2338.6	2394.1	2414.9	2331.7	2239.3	2213.8	2200.0	2190.7	2179.2	2167.6
25°	2412.6	2421.8	2463.4	2431.1	2257.7	2133.0	2096.0	2075.2	2065.9	2054.4	2045.1
27.5°	2511.9	2511.9	2518.9	2405.6	2149.1	1992.0	1936.5	1899.6	1897.2	1894.9	1892.6
30°	2602.1	2590.5	2567.4	2329.4	2008.2	1818.7	1735.5	1698.5	1712.4	1723.9	1726.2
32.5°	2708.4	2685.3	2620.6	2225.4	1839.5	1624.6	1522.9	1506.7	1522.9	1536.7	1527.5
35°	2874.8	2833.2	2676.0	2105.2	1677.7	1446.6	1349.6	1326.5	1321.8	1319.5	1301.0
37.5°	3112.8	3041.1	2719.9	1975.8	1518.3	1289.5	1217.8	1169.3	1125.4	1079.2	1072.3
40°	3403.9	3281.5	2750.0	1827.9	1349.6	1157.8	1081.5	1019.1	945.2	864.3	855.0
42.5°	3722.9	3540.3	2763.8	1663.8	1201.7	1049.1	954.4	875.8	792.6	730.2	718.7
45°	4067.2	3819.9	2752.3	1506.7	1081.5	956.7	850.4	764.9	697.9	654.0	644.7
47.5°	4402.3	4141.1	2719.9	1381.9	989.1	878.1	769.5	691.0	640.1	591.6	580.0
50°	4832.1	4448.5	2680.6	1284.9	887.4	799.6	718.7	635.5	577.7	554.6	550.0
52.5°	5308.1	4755.8	2634.4	1162.4	788.0	737.2	686.3	612.4	593.9	550.0	543.1
55°	5823.5	5120.9	2625.2	1007.6	700.2	693.3	654.0	633.2	637.8	550.0	538.4
57.5°	6366.5	5511.5	2646.0	852.7	628.6	654.0	667.8	651.7	644.7	561.5	538.4
60°	6932.7	5888.2	2583.6	709.4	573.1	621.6	684.0	642.4	591.6	556.9	540.7
62.5°	7482.7	6204.8	2313.2	607.8	531.5	612.4	674.8	607.8	550.0	550.0	543.1
65°	7882.5	6345.7	1809.4	533.8	503.8	600.8	658.6	584.7	538.4	554.6	545.4
67.5°	7928.7	6200.1	1215.5	476.0	480.7	580.0	621.6	563.9	526.9	568.5	554.6
70°	7644.4	5821.1	744.1	432.1	450.6	543.1	589.3	543.1	510.7	556.9	536.1
72.5°	6907.3	5114.0	524.6	395.2	418.3	508.4	559.2	524.6	487.6	503.8	483.0
75°	5666.3	3963.2	416.0	360.5	385.9	476.0	533.8	496.8	459.9	452.9	439.1
77.5°	4014.0	2539.7	335.1	332.8	351.3	436.8	499.2	464.5	427.5	413.7	404.4
80°	2308.6	1245.6	288.9	300.4	318.9	397.5	457.6	427.5	392.9	372.1	358.2
82.5°	882.8	434.4	254.2	261.1	281.9	355.9	416.0	390.5	355.9	374.4	314.3
85°	286.6	238.0	208.0	214.9	235.7	295.8	367.4	346.6	307.3	272.7	251.9
87.5°	127.1	129.4	110.9	122.5	147.9	196.4	268.1	254.2	224.2	187.2	180.2
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)