

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: P399278

Luminaire Tested: **ARCH-L-PA3-120-730-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399278  
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-PA3-120-730-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17950 lumens  
Efficiency: N/A  
Efficacy: 145.9 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

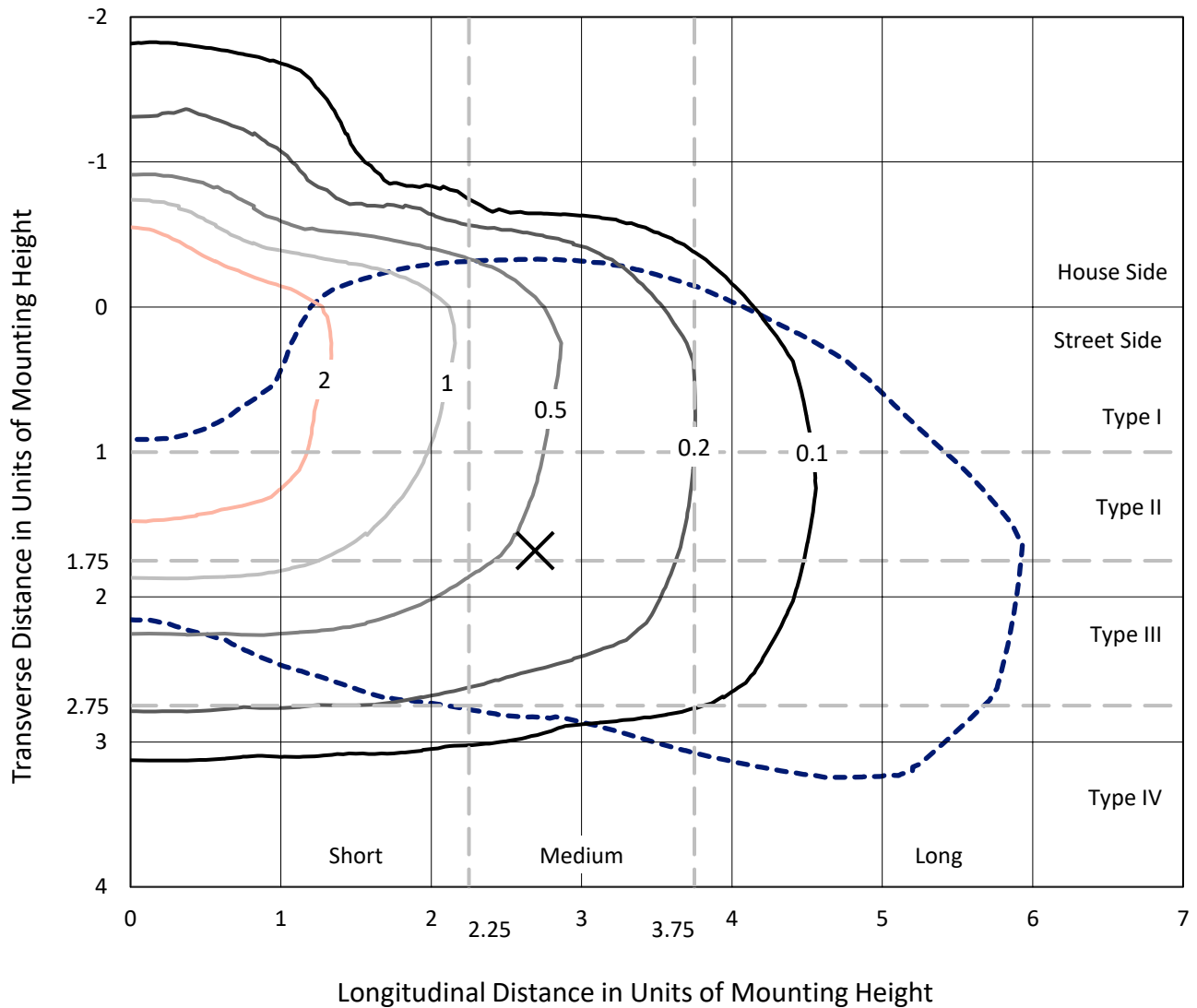
Input Watts (W): 123  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

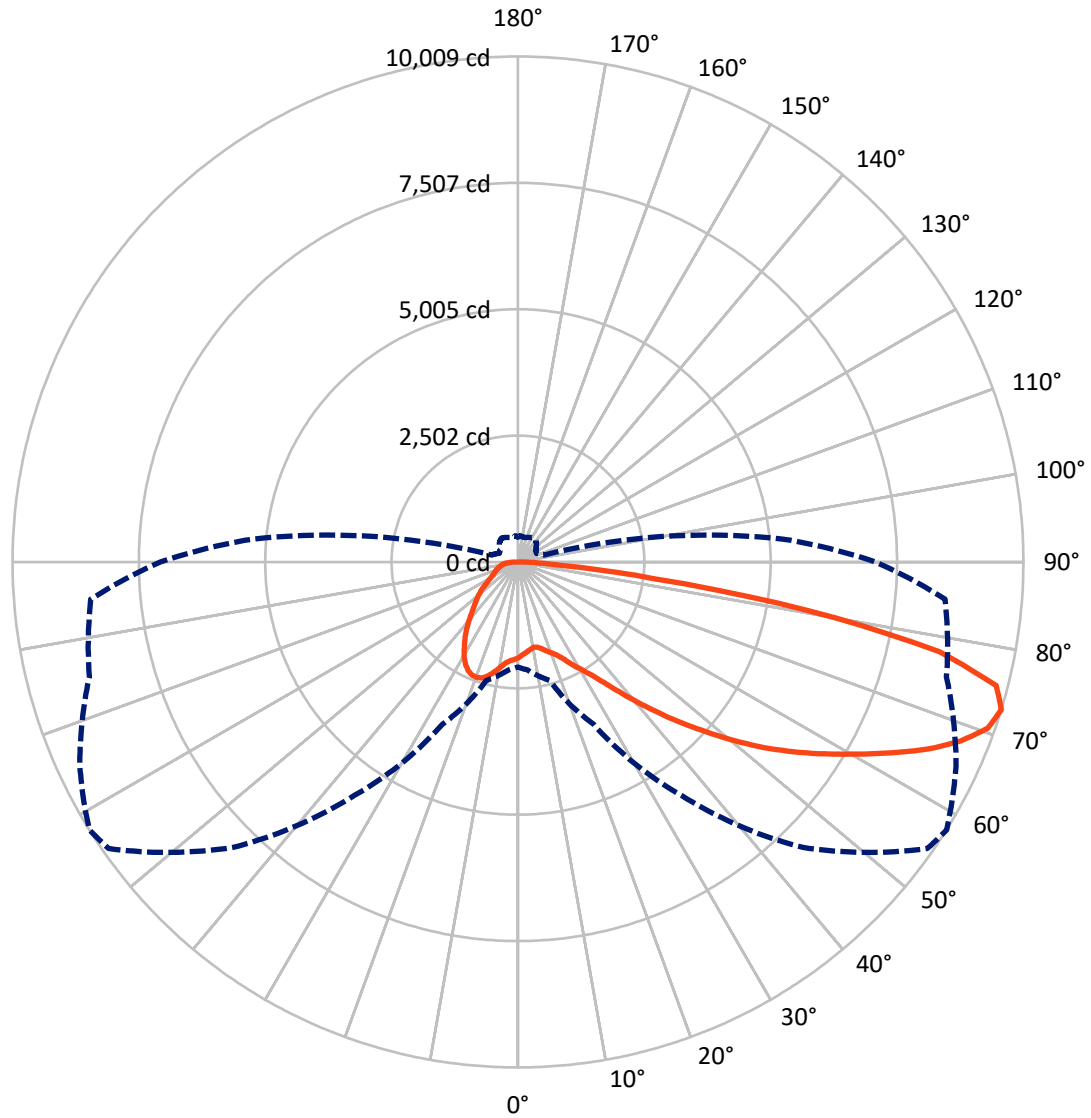
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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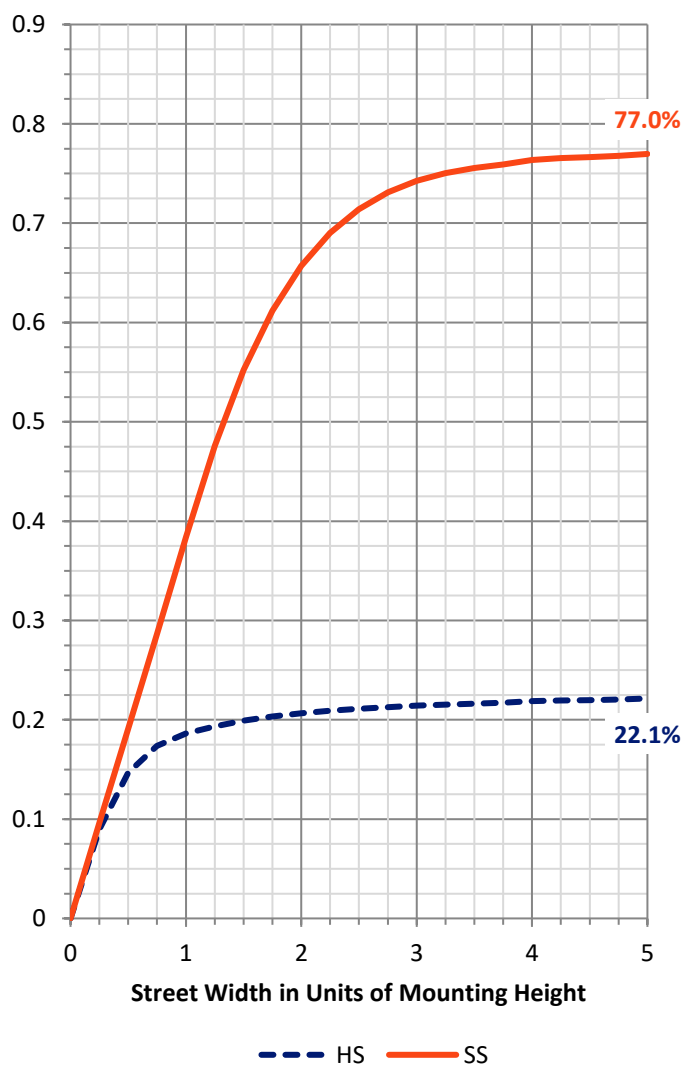
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4070.9	0.0	4070.9
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	13879.1	0.0	13879.1
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	17950.0	0.0	17950.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.4	1.0
10°-20°	579.2	3.2
20°-30°	1037.6	5.8
30°-40°	1560.8	8.7
40°-50°	2527.5	14.1
50°-60°	3804.7	21.2
60°-70°	4477.7	24.9
70°-80°	3175.1	17.7
80°-90°	605.0	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°	17950.0	100.0
0°-180°	17950.0	100.0

**Coefficient of Utilization**

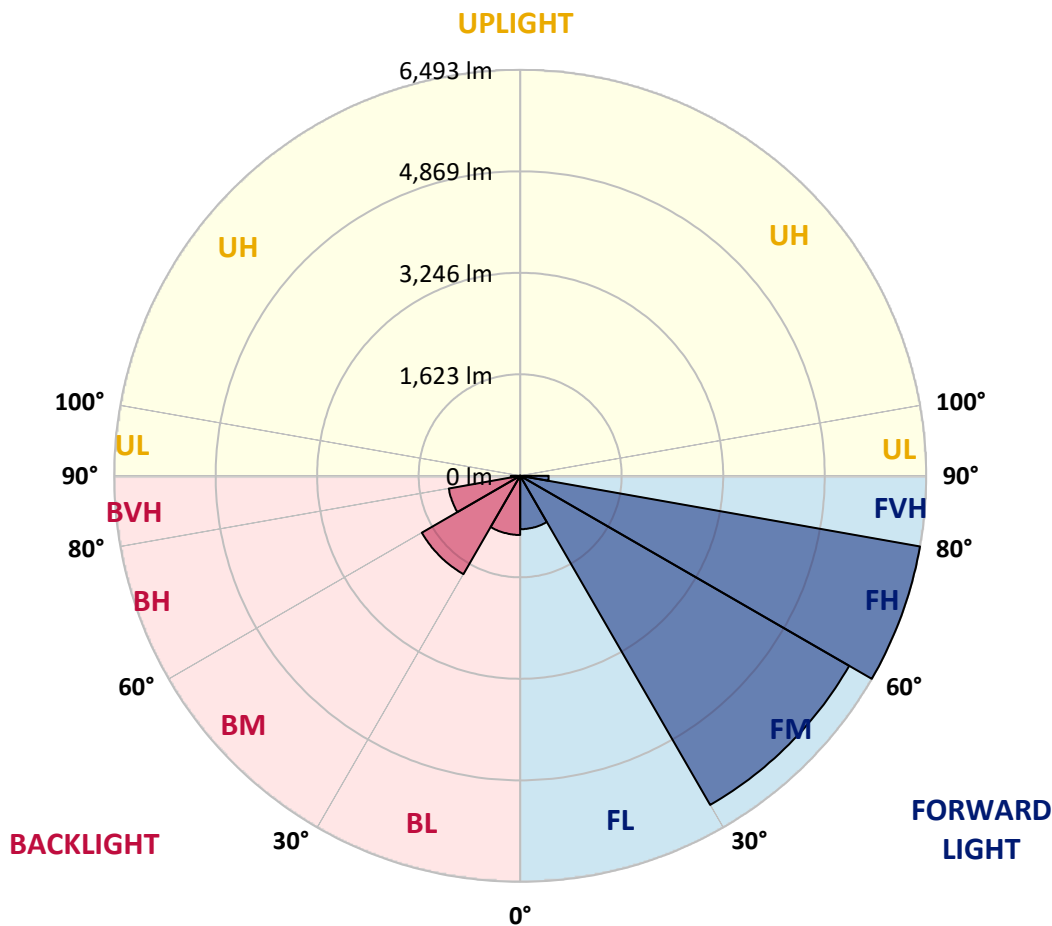


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.6	4.8			
FM (30°-60°)	6076.6	33.9			
FH (60°-80°)	6492.6	36.2			G3/7500
FVH (80°-90°)	456.4	2.5			G3/500
BL (0°-30°)	945.6	5.3	B2/1000		
BM (30°-60°)	1816.4	10.1	B2/2500		
BH (60°-80°)	1160.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	148.7	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°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	1822.3	1812.8	1815.1	1815.1	1824.6	1829.4	1831.7	1838.8	1843.6	1855.4	1872.0
5°	1736.9	1729.8	1732.2	1734.6	1751.2	1767.8	1782.0	1791.4	1805.7	1824.6	1848.3
7.5°	1675.3	1670.6	1673.0	1677.7	1691.9	1710.9	1734.6	1748.8	1770.1	1805.7	1846.0
10°	1630.3	1630.3	1632.7	1642.2	1656.4	1680.1	1699.0	1715.6	1758.3	1822.3	1883.9
12.5°	1594.8	1594.8	1601.9	1620.8	1644.5	1668.2	1713.3	1732.2	1789.1	1876.8	1950.2
15°	1592.4	1594.8	1597.1	1613.7	1639.8	1691.9	1758.3	1786.7	1855.4	1959.7	2045.0
17.5°	1630.3	1632.7	1623.2	1627.9	1658.7	1732.2	1819.9	1853.1	1940.7	2054.5	2142.2
20°	1746.4	1746.4	1718.0	1691.9	1713.3	1793.8	1893.3	1926.5	2023.7	2149.3	2236.9
22.5°	1983.4	1995.2	1928.9	1872.0	1838.8	1883.9	1973.9	2009.5	2118.5	2253.5	2341.2
25°	2270.1	2282.0	2191.9	2111.4	2049.7	2042.6	2101.9	2139.8	2229.8	2369.6	2443.1
27.5°	2547.4	2526.0	2443.1	2367.3	2289.1	2225.1	2270.1	2303.3	2407.6	2514.2	2559.2
30°	2765.4	2748.8	2668.2	2613.7	2540.3	2457.3	2431.3	2466.8	2552.1	2651.6	2675.3
32.5°	3007.1	2995.2	2914.7	2843.6	2782.0	2703.8	2646.9	2663.5	2710.9	2782.0	2796.2
35°	3315.1	3341.2	3255.9	3111.3	3042.6	2966.8	2926.5	2931.2	2966.8	3011.8	2988.1
37.5°	3639.8	3670.6	3675.3	3447.8	3355.4	3286.7	3244.0	3260.6	3303.3	3334.1	3260.6
40°	4241.7	4210.9	4087.6	3919.4	3777.2	3710.9	3651.6	3649.2	3680.1	3734.6	3601.9
42.5°	5040.2	5011.8	4763.0	4545.0	4319.9	4244.0	4127.9	4078.2	4092.4	4161.1	3976.3
45°	5805.6	5793.8	5594.7	5341.2	5071.0	4924.1	4658.7	4537.9	4526.0	4580.5	4360.1
47.5°	6485.7	6433.6	6289.0	6092.3	6063.9	5680.0	5191.9	5028.4	4971.5	5002.3	4755.9
50°	7213.2	7035.5	6836.4	6715.6	6921.7	6563.9	5729.8	5559.2	5419.4	5440.7	5184.8
52.5°	7599.4	7300.9	7170.5	7206.1	7483.3	7345.9	6315.1	6106.6	5881.4	5912.3	5611.3
55°	7267.7	7265.3	7322.2	7542.6	7928.8	7770.1	6872.0	6637.4	6390.9	6398.0	6101.8
57.5°	6812.7	6905.1	7199.0	7684.7	8480.9	8215.5	7419.3	7170.5	6945.4	6909.9	6658.7
60°	6398.0	6499.9	6926.5	7661.1	8672.9	8623.1	7940.7	7722.7	7540.2	7435.9	7244.0
62.5°	5767.7	5843.5	6447.8	7509.4	8511.8	8917.0	8469.1	8319.8	8182.4	7966.7	7874.3
65°	5026.0	5052.1	5689.5	7009.4	8310.3	9030.7	8995.2	8928.8	8796.1	8478.6	8497.5
67.5°	4222.7	4274.8	4834.1	6210.8	7869.6	8978.6	9402.7	9457.2	9300.8	8824.5	8895.6
70°	3367.3	3431.2	3855.4	5106.6	7120.8	8753.5	9779.5	9867.2	9566.2	8938.3	8969.1
72.5°	2082.9	2144.5	2428.9	3547.4	5644.5	7997.5	9895.6	10009.4	9573.4	8786.6	8490.4
75°	720.4	727.5	950.2	1701.4	3350.7	6037.8	9516.5	9784.2	9272.4	8234.5	7388.5
77.5°	329.4	341.2	421.8	701.4	1485.8	3258.3	7857.7	8528.3	8357.7	7372.0	5687.1
80°	227.5	232.2	291.5	419.4	857.8	1146.9	4959.7	5834.1	6132.6	5708.5	3644.5
82.5°	170.6	175.4	225.1	284.4	618.5	556.9	1888.6	2710.9	3369.6	3308.0	1523.7
85°	163.5	161.1	175.4	189.6	412.3	331.7	611.4	838.9	1315.2	1125.6	383.9
87.5°	71.1	78.2	180.1	106.6	215.6	154.0	265.4	310.4	400.5	348.3	137.4
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°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	1879.1	1883.9	1898.1	1919.4	1931.3	1955.0	1971.5	1981.0	1988.1	1990.5	1990.5
5°	1862.5	1872.0	1902.8	1938.4	1971.5	2021.3	2066.3	2092.4	2111.4	2118.5	2120.8
7.5°	1867.3	1891.0	1936.0	1988.1	2030.8	2094.8	2149.3	2201.4	2244.1	2260.6	2260.6
10°	1912.3	1945.5	2007.1	2075.8	2130.3	2196.7	2253.5	2298.6	2348.3	2376.8	2381.5
12.5°	1981.0	2021.3	2101.9	2177.7	2239.3	2291.4	2343.6	2376.8	2400.4	2421.8	2426.5
15°	2078.2	2127.9	2208.5	2286.7	2341.2	2374.4	2388.6	2388.6	2386.2	2388.6	2393.3
17.5°	2175.3	2222.7	2303.3	2381.5	2407.6	2388.6	2372.0	2367.3	2364.9	2360.2	2362.5
20°	2270.1	2315.1	2383.9	2443.1	2421.8	2355.4	2334.1	2331.7	2324.6	2319.9	2315.1
22.5°	2364.9	2398.1	2454.9	2476.3	2391.0	2296.2	2270.1	2255.9	2246.4	2234.6	2222.7
25°	2473.9	2483.4	2526.0	2492.9	2315.1	2187.2	2149.3	2127.9	2118.5	2106.6	2097.1
27.5°	2575.8	2575.8	2582.9	2466.8	2203.8	2042.6	1985.8	1947.8	1945.5	1943.1	1940.7
30°	2668.2	2656.4	2632.7	2388.6	2059.2	1864.9	1779.6	1741.7	1755.9	1767.8	1770.1
32.5°	2777.2	2753.5	2687.2	2282.0	1886.2	1665.9	1561.6	1545.0	1561.6	1575.8	1566.3
35°	2947.8	2905.2	2744.0	2158.7	1720.4	1483.4	1383.9	1360.2	1355.4	1353.1	1334.1
37.5°	3191.9	3118.4	2789.1	2026.0	1556.9	1322.3	1248.8	1199.0	1154.0	1106.6	1099.5
40°	3490.5	3364.9	2819.9	1874.4	1383.9	1187.2	1109.0	1045.0	969.2	886.2	876.8
42.5°	3817.5	3630.3	2834.1	1706.1	1232.2	1075.8	978.7	898.1	812.8	748.8	737.0
45°	4170.6	3917.0	2822.2	1545.0	1109.0	981.0	872.0	784.4	715.6	670.6	661.1
47.5°	4514.2	4246.4	2789.1	1417.0	1014.2	900.5	789.1	708.5	656.4	606.6	594.8
50°	4954.9	4561.6	2748.8	1317.5	909.9	819.9	737.0	651.7	592.4	568.7	564.0
52.5°	5443.1	4876.7	2701.4	1191.9	808.0	755.9	703.8	628.0	609.0	564.0	556.9
55°	5971.5	5251.1	2691.9	1033.2	718.0	710.9	670.6	649.3	654.0	564.0	552.1
57.5°	6528.4	5651.6	2713.2	874.4	644.5	670.6	684.8	668.2	661.1	575.8	552.1
60°	7108.9	6037.8	2649.3	727.5	587.7	637.4	701.4	658.8	606.6	571.1	554.5
62.5°	7672.9	6362.5	2372.0	623.2	545.0	628.0	691.9	623.2	564.0	564.0	556.9
65°	8082.8	6507.0	1855.4	547.4	516.6	616.1	675.3	599.5	552.1	568.7	559.2
67.5°	8130.2	6357.7	1246.4	488.1	492.9	594.8	637.4	578.2	540.3	582.9	568.7
70°	7838.8	5969.1	763.0	443.1	462.1	556.9	604.3	556.9	523.7	571.1	549.8
72.5°	7082.9	5244.0	537.9	405.2	428.9	521.3	573.5	537.9	500.0	516.6	495.3
75°	5810.4	4063.9	426.5	369.7	395.7	488.1	547.4	509.5	471.6	464.4	450.2
77.5°	4116.1	2604.2	343.6	341.2	360.2	447.9	511.8	476.3	438.4	424.2	414.7
80°	2367.3	1277.2	296.2	308.1	327.0	407.6	469.2	438.4	402.8	381.5	367.3
82.5°	905.2	445.5	260.7	267.8	289.1	364.9	426.5	400.5	364.9	383.9	322.3
85°	293.8	244.1	213.3	220.4	241.7	303.3	376.8	355.4	315.2	279.6	258.3
87.5°	130.3	132.7	113.7	125.6	151.7	201.4	274.9	260.7	229.9	191.9	184.8
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)