

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: P399321

Luminaire Tested: **ARCH-L-PA3-120-830-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-120-830-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15616 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

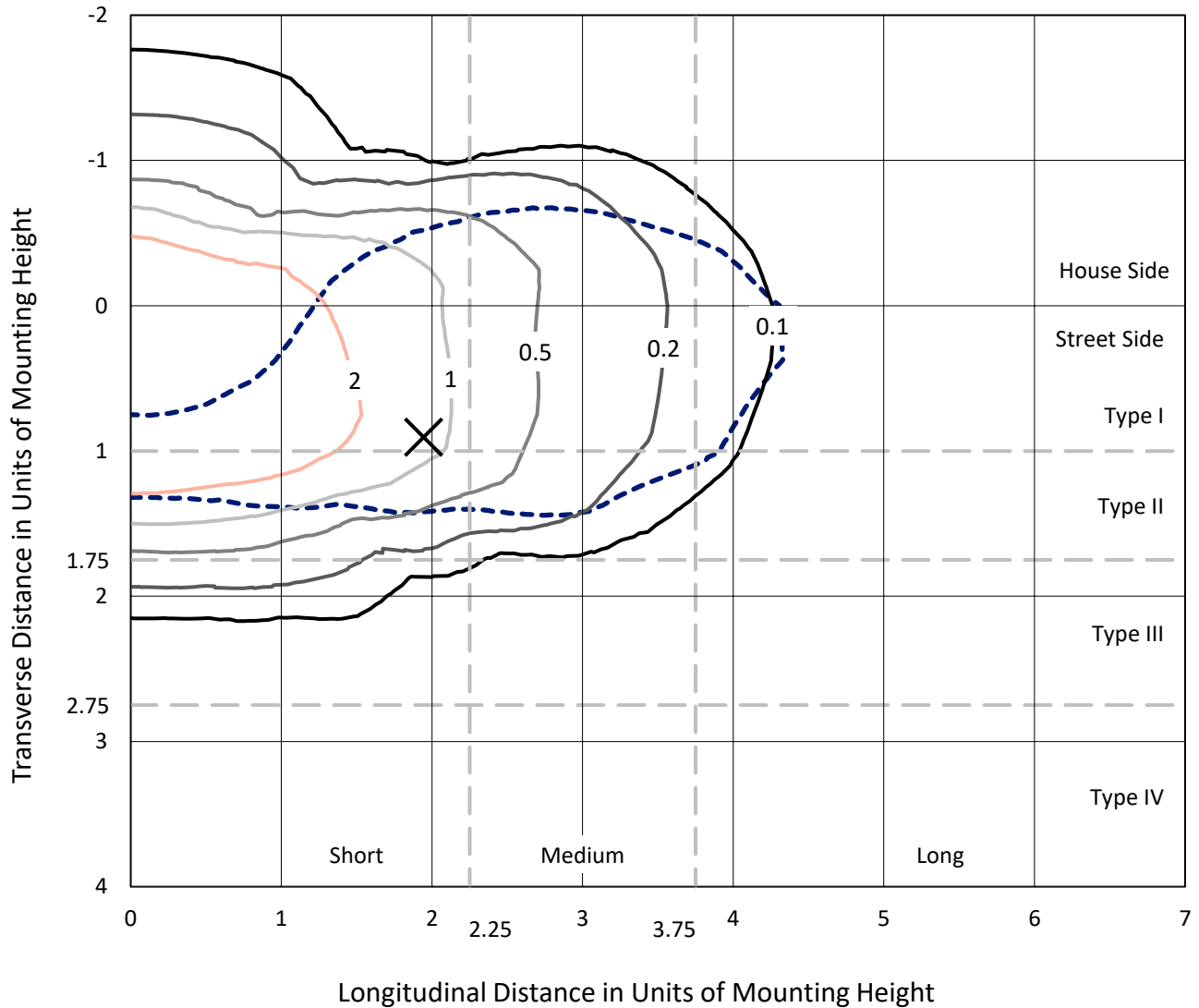
Input Watts (W): 123  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

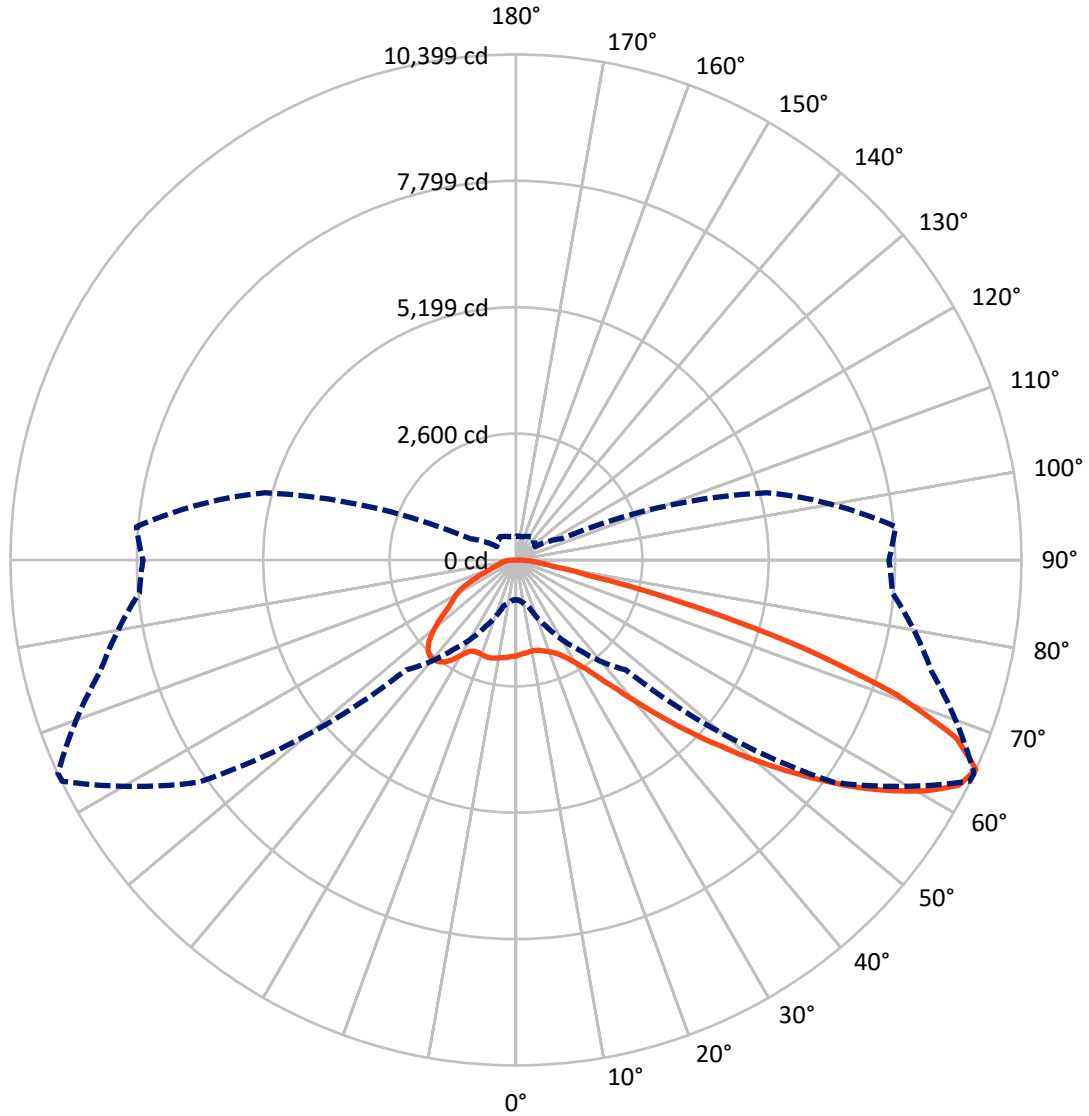
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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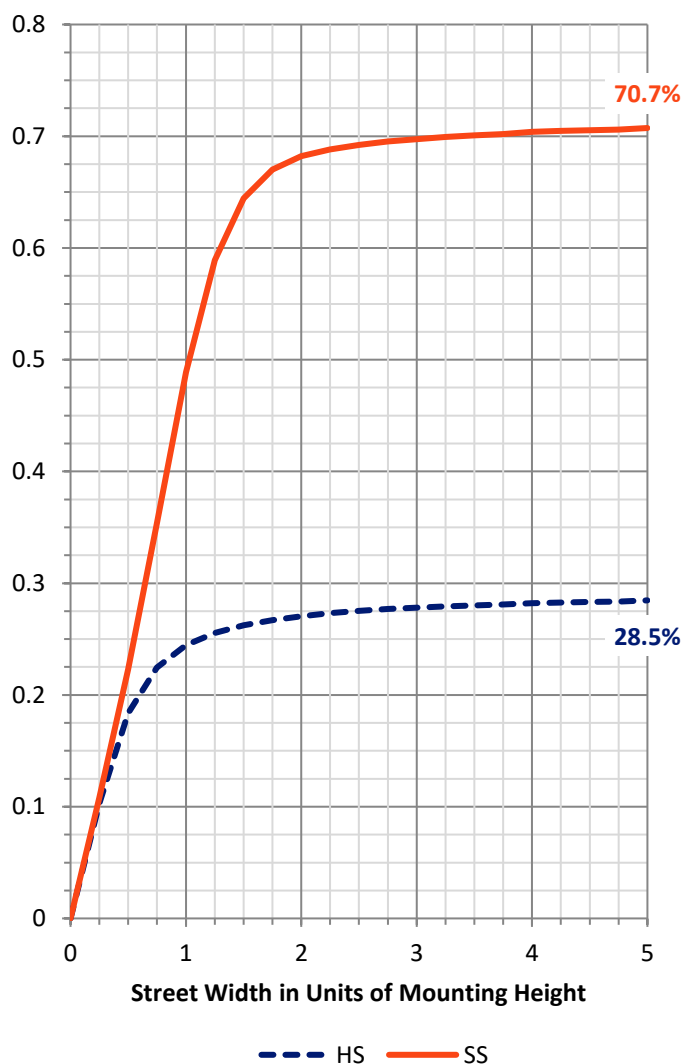
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4514.8	0.0	4514.8
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	11101.2	0.0	11101.2
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	15616.0	0.0	15616.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.0	1.2
10°-20°	561.3	3.6
20°-30°	997.0	6.4
30°-40°	1686.6	10.8
40°-50°	2936.1	18.8
50°-60°	3794.4	24.3
60°-70°	3320.3	21.3
70°-80°	1806.0	11.6
80°-90°	326.3	2.1
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°	15616.0	100.0
0°-180°	15616.0	100.0

**Coefficient of Utilization**

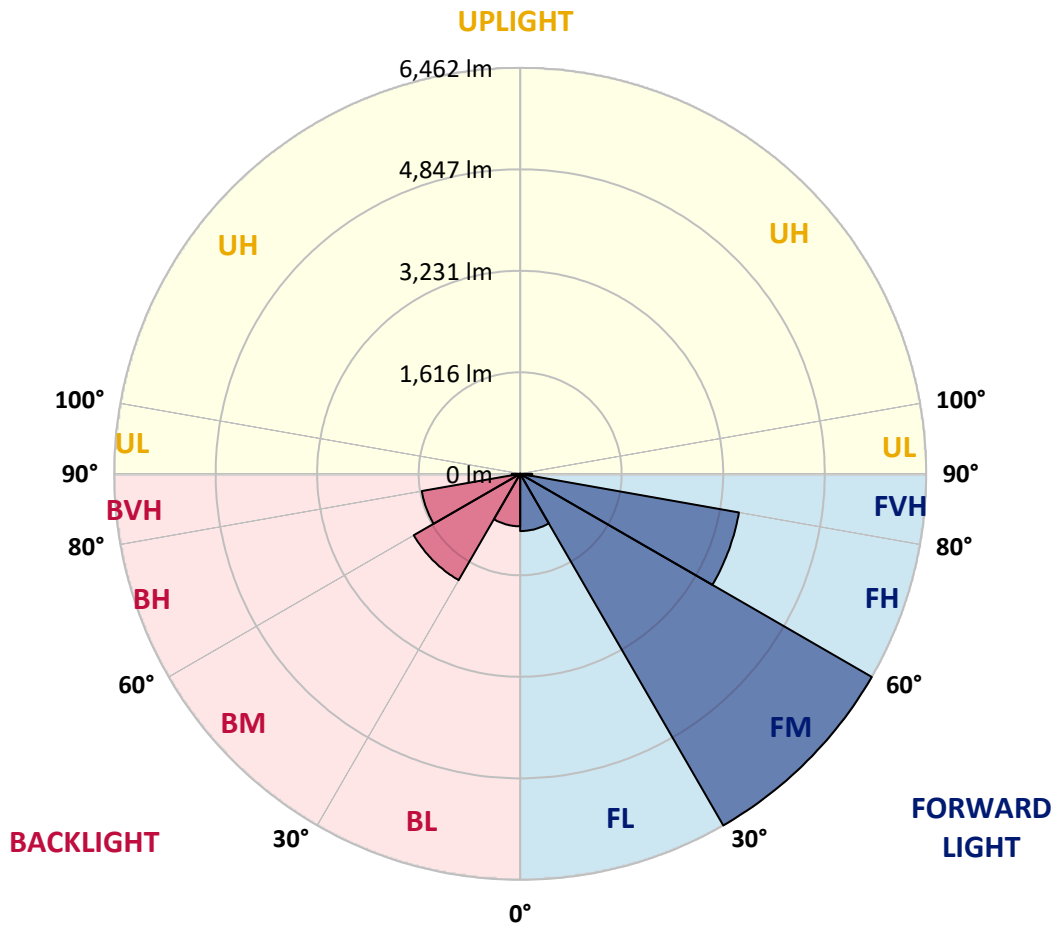


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.2	5.8			
FM (30°-60°)	6462.3	41.4			
FH (60°-80°)	3535.7	22.6			G2/5000
FVH (80°-90°)	192.0	1.2			G2/225
BL (0°-30°)	835.1	5.3	B2/1000		
BM (30°-60°)	1954.8	12.5	B2/2500		
BH (60°-80°)	1590.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	134.3	0.9			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1973.2	1973.2	1973.2	1973.2	1973.2	1973.2	1973.2	1973.2	1973.2	1973.2	1973.2
2.5°	1938.3	1936.2	1932.1	1936.2	1938.3	1942.4	1940.3	1944.5	1942.4	1948.6	1958.8
5°	1889.0	1884.8	1882.8	1893.1	1899.2	1909.5	1913.6	1928.0	1926.0	1936.2	1952.7
7.5°	1833.5	1833.5	1831.4	1843.7	1852.0	1870.5	1884.8	1909.5	1911.6	1930.1	1948.6
10°	1790.3	1792.4	1790.3	1800.6	1812.9	1835.5	1860.2	1895.1	1897.2	1923.9	1942.4
12.5°	1773.9	1773.9	1773.9	1788.2	1804.7	1835.5	1864.3	1901.3	1905.4	1934.2	1950.6
15°	1796.5	1798.5	1794.4	1808.8	1827.3	1864.3	1891.0	1930.1	1934.2	1960.9	1971.2
17.5°	1876.6	1884.8	1874.6	1882.8	1878.7	1907.5	1932.1	1971.2	1973.2	1995.8	2000.0
20°	2034.9	2043.1	2026.7	2016.4	1979.4	1977.3	1987.6	2018.5	2018.5	2032.8	2022.6
22.5°	2279.5	2287.7	2258.9	2219.9	2131.5	2088.3	2065.7	2080.1	2078.1	2084.2	2057.5
25°	2604.3	2602.2	2567.3	2495.3	2353.5	2248.7	2193.2	2170.6	2170.6	2158.2	2125.3
27.5°	3007.1	2976.3	2914.6	2828.3	2631.0	2485.0	2365.8	2308.3	2298.0	2261.0	2199.3
30°	3436.7	3414.1	3325.7	3200.3	2972.2	2785.1	2587.8	2472.7	2466.5	2386.4	2293.9
32.5°	3942.4	3905.4	3806.7	3656.6	3383.3	3120.2	2873.5	2698.8	2688.5	2561.1	2433.7
35°	4591.9	4561.0	4369.9	4219.8	3868.4	3523.0	3231.2	2998.9	2990.7	2834.5	2672.1
37.5°	5370.9	5290.7	5105.7	4824.1	4454.2	4045.1	3675.1	3383.3	3373.0	3200.3	2994.8
40°	6065.6	5993.7	5829.3	5570.3	5173.6	4719.3	4217.8	3864.2	3854.0	3644.3	3385.3
42.5°	6579.5	6530.2	6423.3	6273.2	5989.6	5714.2	4910.5	4445.9	4427.4	4156.1	3833.4
45°	6877.5	6838.5	6776.8	6813.8	6809.7	6758.3	5736.8	5138.6	5079.0	4727.5	4332.9
47.5°	6805.6	6770.7	6795.3	7083.1	7479.8	7777.8	6698.7	5847.8	5767.6	5309.2	4865.3
50°	6285.6	6300.0	6429.4	6980.3	7870.3	8532.2	7765.5	6655.5	6548.7	5895.0	5370.9
52.5°	5338.0	5372.9	5687.4	6458.2	7827.2	9021.4	8729.5	7490.1	7348.2	6466.4	5831.3
55°	4240.4	4328.8	4735.8	5545.6	7264.0	9056.3	9457.1	8328.7	8172.5	7002.9	6232.1
57.5°	3136.6	3268.2	3738.9	4482.9	6184.8	8503.4	9820.9	9130.3	8941.2	7535.3	6655.5
60°	1989.7	2069.8	2612.5	3490.2	4733.7	7150.9	9773.7	9812.7	9648.3	8065.6	7097.5
62.5°	1270.3	1309.3	1582.7	2489.1	3309.3	5294.8	9257.7	10328.6	10217.6	8548.6	7516.8
65°	816.0	832.5	972.2	1531.3	2252.8	3196.2	7973.1	10384.1	10398.5	8850.8	7775.8
67.5°	663.9	672.1	723.5	945.5	1593.0	1765.6	5553.8	9594.8	9769.6	8772.7	7687.4
70°	604.3	614.6	668.0	754.4	1233.3	1218.9	2688.5	8028.6	8314.3	8322.5	7294.8
72.5°	509.8	524.1	596.1	713.2	953.7	962.0	1138.7	5718.3	6139.6	7438.7	6704.9
75°	425.5	433.7	495.4	629.0	807.8	768.7	799.6	3031.8	3640.2	5964.9	6078.0
77.5°	345.3	353.5	398.8	501.5	717.4	598.1	629.0	1255.9	1551.9	4049.2	4968.0
80°	246.7	254.9	306.3	390.5	542.6	538.5	466.6	692.7	752.3	2189.1	3227.1
82.5°	176.8	182.9	232.3	279.5	376.1	540.6	351.5	470.7	493.3	970.2	1301.1
85°	119.2	119.2	160.3	185.0	242.5	341.2	283.7	318.6	333.0	460.4	351.5
87.5°	51.4	51.4	86.3	94.6	127.4	158.3	211.7	160.3	164.4	248.7	143.9
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°	1973.2	1973.2	1973.2	1973.2	1973.2	1973.2	1973.2	1973.2	1973.2	1973.2	1973.2
2.5°	1965.0	1967.1	1971.2	1983.5	1991.7	2004.1	2010.2	2018.5	2018.5	2014.3	2016.4
5°	1960.9	1967.1	1981.5	2004.1	2018.5	2041.1	2057.5	2069.8	2073.9	2069.8	2071.9
7.5°	1958.8	1969.1	1993.8	2026.7	2047.2	2076.0	2098.6	2113.0	2123.3	2119.2	2121.2
10°	1952.7	1969.1	2000.0	2041.1	2071.9	2100.7	2121.2	2127.4	2133.6	2129.4	2127.4
12.5°	1960.9	1979.4	2012.3	2061.6	2096.6	2119.2	2125.3	2115.1	2100.7	2092.4	2090.4
15°	1977.3	1995.8	2028.7	2080.1	2110.9	2119.2	2104.8	2071.9	2039.0	2020.5	2018.5
17.5°	2000.0	2012.3	2039.0	2084.2	2108.9	2098.6	2069.8	2030.8	2006.1	1991.7	1993.8
20°	2014.3	2014.3	2034.9	2069.8	2090.4	2082.2	2047.2	2004.1	1965.0	1946.5	1940.3
22.5°	2034.9	2024.6	2026.7	2057.5	2086.3	2073.9	2000.0	1923.9	1868.4	1847.8	1845.8
25°	2090.4	2061.6	2043.1	2061.6	2129.4	2028.7	1880.7	1792.4	1741.0	1722.5	1724.5
27.5°	2158.2	2119.2	2080.1	2110.9	2164.4	1926.0	1728.6	1627.9	1597.1	1582.7	1588.9
30°	2226.1	2174.7	2123.3	2234.3	2139.7	1765.6	1533.4	1434.7	1408.0	1397.7	1405.9
32.5°	2351.4	2267.2	2205.5	2398.7	2063.7	1582.7	1321.7	1231.2	1206.5	1194.2	1190.1
35°	2561.1	2454.2	2392.5	2542.6	1956.8	1379.2	1128.4	1064.7	1038.0	1011.3	1007.2
37.5°	2863.2	2733.7	2678.3	2624.8	1806.7	1177.8	980.4	937.3	898.2	857.1	855.1
40°	3225.0	3056.5	3015.3	2661.8	1599.1	988.7	877.7	836.6	787.2	748.2	750.2
42.5°	3642.3	3426.4	3338.1	2651.5	1342.2	888.0	803.7	758.5	715.3	680.4	678.3
45°	4088.3	3843.7	3640.2	2579.6	1087.3	818.1	758.5	705.0	661.9	622.8	618.7
47.5°	4581.6	4308.2	3919.7	2439.8	898.2	768.7	731.7	655.7	616.6	592.0	592.0
50°	5079.0	4752.2	4176.7	2228.1	787.2	731.7	692.7	629.0	598.1	577.6	577.6
52.5°	5504.5	5214.7	4388.4	1975.3	717.4	700.9	666.0	616.6	583.7	565.2	563.2
55°	5917.6	5644.3	4577.5	1724.5	659.8	659.8	659.8	606.4	569.4	552.9	550.9
57.5°	6328.7	6096.5	4774.8	1560.1	608.4	624.9	647.5	594.0	557.0	542.6	540.6
60°	6793.3	6639.1	5003.0	1445.0	563.2	587.9	631.0	579.6	536.5	524.1	522.1
62.5°	7286.6	7286.6	5210.6	1282.6	522.1	557.0	606.4	561.1	518.0	507.7	505.6
65°	7673.0	7839.5	5344.2	1040.1	481.0	526.2	577.6	536.5	493.3	491.3	487.1
67.5°	7718.2	7979.3	5259.9	785.2	444.0	493.3	548.8	509.8	468.6	468.6	462.5
70°	7393.5	7658.6	4996.8	587.9	417.3	460.4	511.8	476.9	437.8	441.9	431.6
72.5°	6850.8	6916.6	4343.2	464.5	386.4	425.5	466.6	439.9	404.9	404.9	390.5
75°	6135.5	5769.6	3155.1	388.5	349.4	384.4	421.4	398.8	367.9	357.6	349.4
77.5°	4883.7	4180.8	1833.5	335.0	318.6	345.3	370.0	353.5	326.8	304.2	304.2
80°	2976.3	2450.1	809.8	289.8	281.6	302.2	318.6	300.1	277.5	254.9	248.7
82.5°	1132.6	945.5	392.6	248.7	246.7	259.0	271.3	252.8	236.4	226.1	195.3
85°	310.4	285.7	269.3	207.6	203.5	201.4	215.8	207.6	185.0	152.1	135.7
87.5°	117.2	133.6	145.9	127.4	135.7	125.4	143.9	131.5	117.2	76.1	67.8
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)