

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: P400531

Luminaire Tested: **ARCH-L-PA3-90-760-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-760-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15472 lumens
Efficiency: N/A
Efficacy: 166.4 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

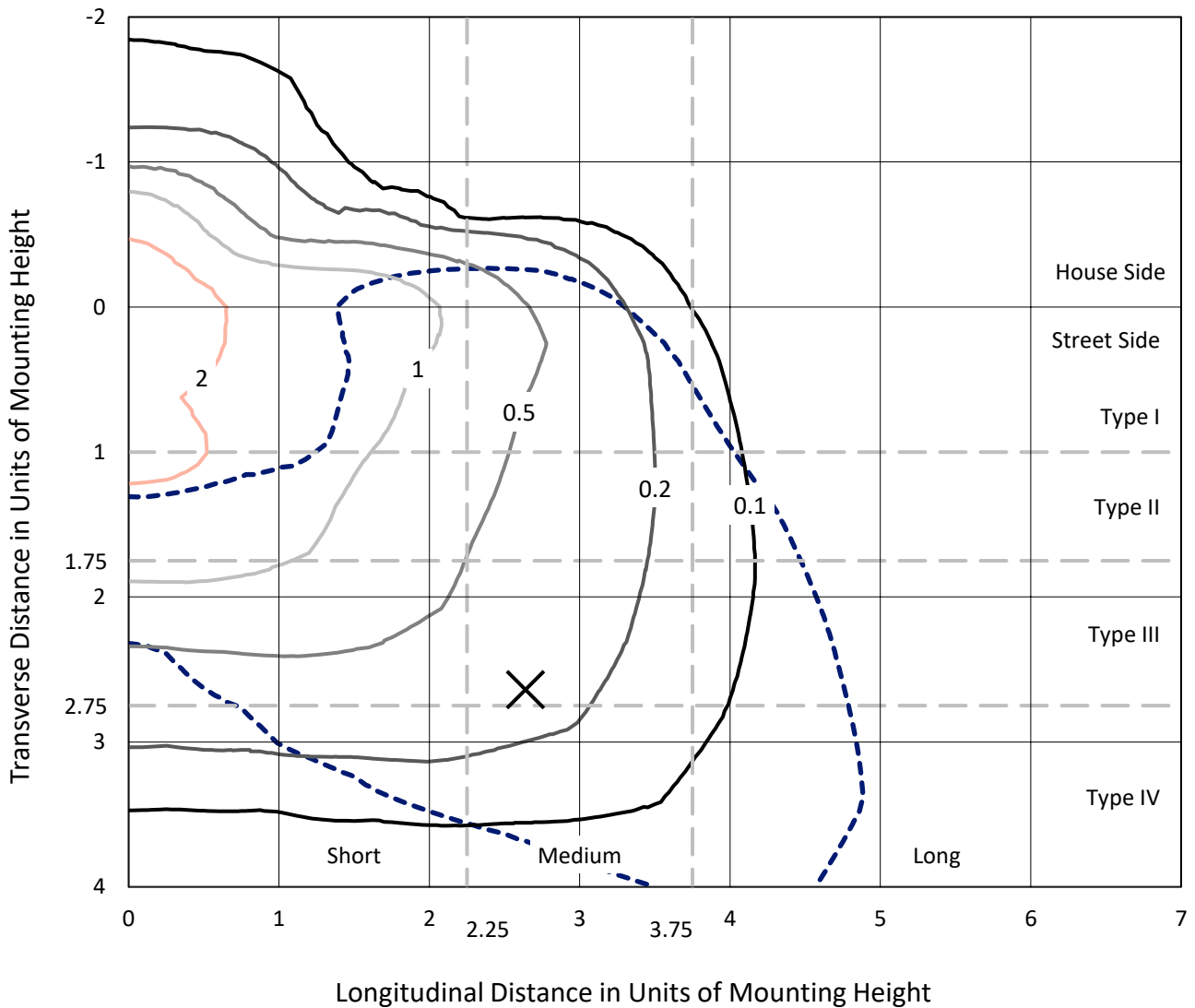
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

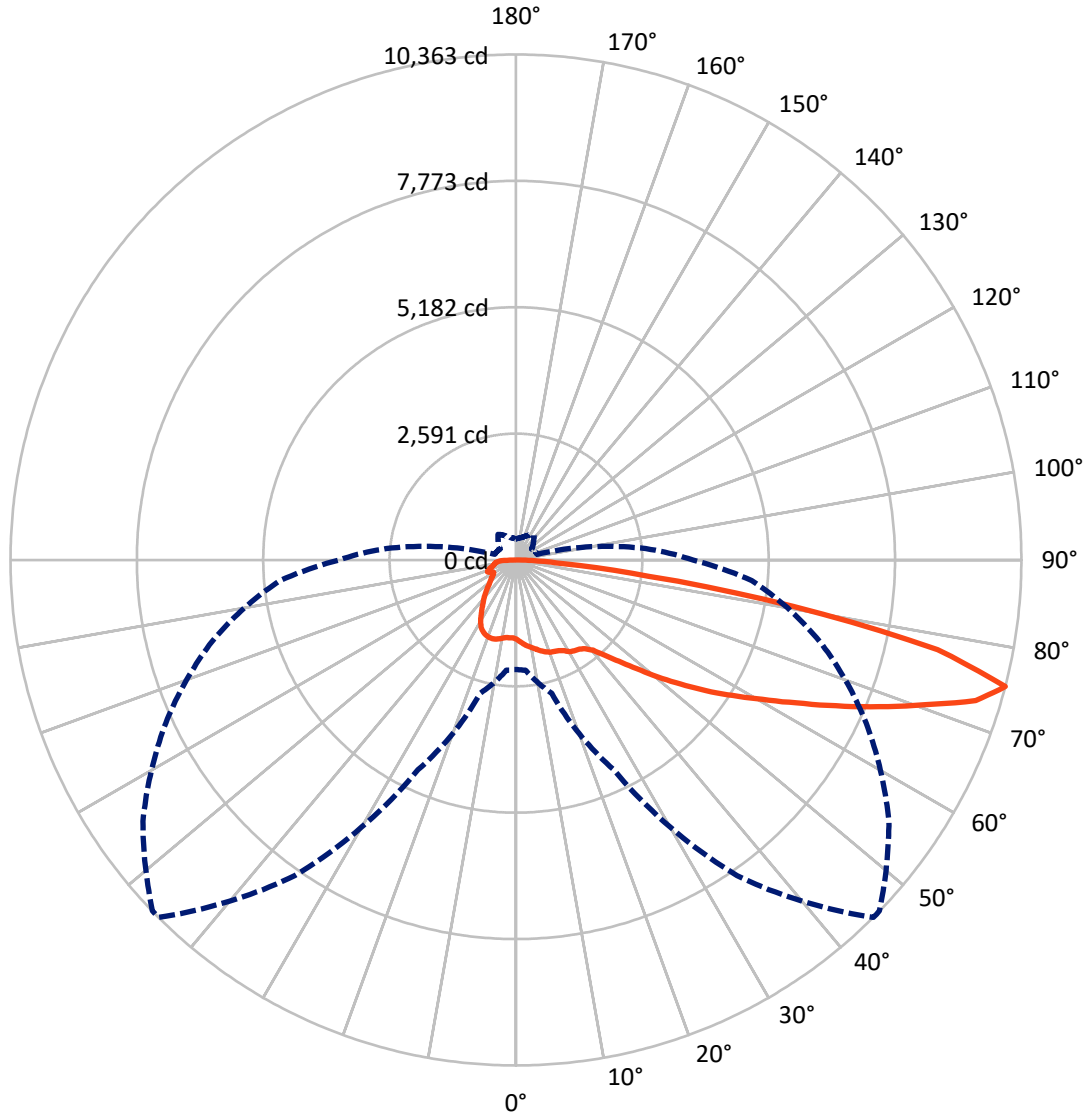
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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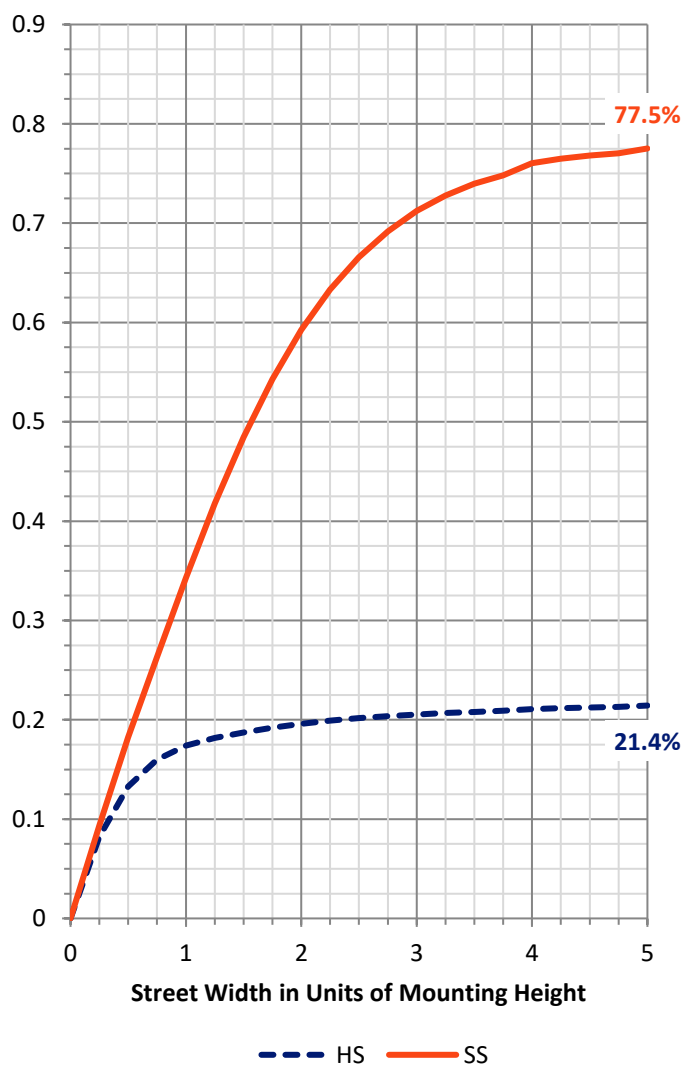
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3419.2	0.0	3419.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	12052.8	0.0	12052.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	15472.0	0.0	15472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.7	1.0
10°-20°	511.4	3.3
20°-30°	871.9	5.6
30°-40°	1221.6	7.9
40°-50°	1794.7	11.6
50°-60°	2856.3	18.5
60°-70°	4063.0	26.3
70°-80°	3402.0	22.0
80°-90°	590.4	3.8
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°	15472.0	100.0
0°-180°	15472.0	100.0

Coefficient of Utilization

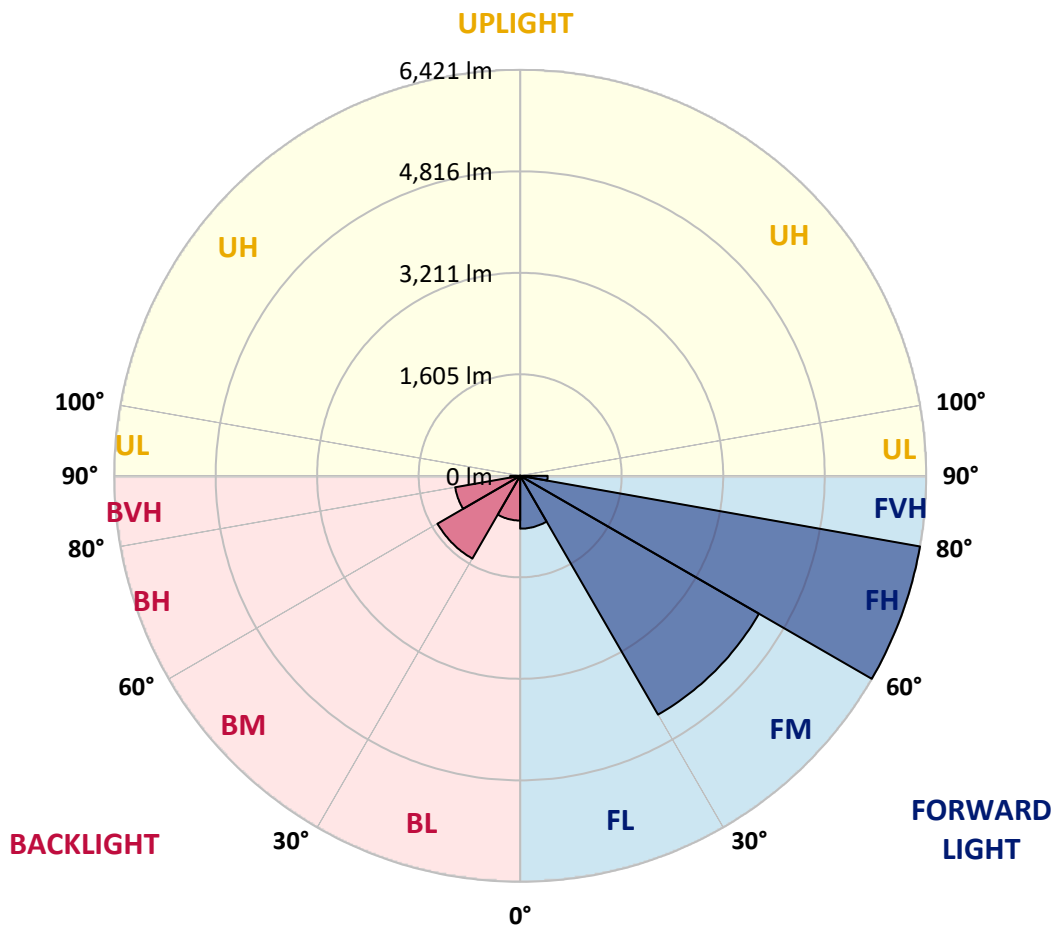


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.4	5.4			
FM (30°-60°)	4361.1	28.2			
FH (60°-80°)	6421.3	41.5			G3/7500
FVH (80°-90°)	434.1	2.8			G3/500
BL (0°-30°)	707.7	4.6	B2/1000		
BM (30°-60°)	1511.5	9.8	B2/2500		
BH (60°-80°)	1043.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	156.4	1.0			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°	46°	55°	65°	75°	85°
0°	1624.9	1624.9	1624.9	1624.9	1624.9	1624.9	1624.9	1624.9	1624.9	1624.9	1624.9
2.5°	1717.9	1709.7	1705.5	1705.5	1689.0	1678.6	1676.6	1662.1	1649.7	1637.3	1627.0
5°	1817.2	1811.0	1798.6	1788.2	1765.5	1736.5	1732.4	1701.4	1670.4	1641.4	1616.6
7.5°	1908.1	1895.7	1881.2	1860.6	1823.4	1784.1	1777.9	1734.5	1691.1	1647.6	1614.6
10°	1984.6	1972.2	1951.5	1922.6	1875.0	1827.5	1821.3	1775.8	1730.3	1678.6	1631.1
12.5°	2057.0	2046.6	2015.6	1976.3	1920.5	1877.1	1870.9	1831.6	1784.1	1726.2	1664.2
15°	2119.0	2108.6	2075.6	2030.1	1966.0	1932.9	1924.7	1887.4	1839.9	1777.9	1713.8
17.5°	2150.0	2150.0	2114.8	2065.2	2005.3	1980.5	1974.3	1928.8	1885.4	1825.4	1761.3
20°	2160.3	2164.5	2139.7	2079.7	2028.0	2017.7	2011.5	1974.3	1924.7	1866.8	1806.8
22.5°	2166.5	2174.8	2154.1	2085.9	2042.5	2036.3	2032.2	2007.3	1968.1	1912.3	1852.3
25°	2187.2	2187.2	2172.7	2096.2	2061.1	2059.0	2059.0	2044.6	2017.7	1970.1	1910.2
27.5°	2218.2	2216.1	2197.5	2119.0	2102.4	2108.6	2106.6	2104.5	2085.9	2038.4	1974.3
30°	2269.9	2269.9	2249.2	2164.5	2154.1	2181.0	2183.1	2187.2	2158.3	2083.8	2032.2
32.5°	2348.5	2340.2	2319.5	2209.9	2193.4	2218.2	2222.3	2220.3	2195.5	2125.2	2100.4
35°	2590.3	2571.7	2497.3	2311.2	2228.6	2243.0	2245.1	2255.4	2259.6	2203.7	2191.3
37.5°	3014.1	2989.3	2875.6	2551.0	2340.2	2305.0	2303.0	2329.8	2352.6	2303.0	2303.0
40°	3475.1	3454.5	3388.3	2964.5	2546.9	2431.1	2422.9	2447.7	2476.6	2441.5	2451.8
42.5°	3872.1	3888.6	3894.8	3402.8	2857.0	2666.8	2644.1	2608.9	2654.4	2623.4	2664.8
45°	4169.7	4161.5	4275.2	3851.4	3258.1	2962.4	2931.4	2836.3	2894.2	2892.2	2983.1
47.5°	4486.0	4471.6	4519.1	4273.1	3714.9	3324.2	3276.7	3136.1	3222.9	3282.9	3433.8
50°	4785.8	4789.9	4806.5	4605.9	4211.1	3764.6	3704.6	3516.5	3640.5	3766.6	3979.6
52.5°	5176.5	5147.6	5126.9	4994.6	4767.2	4223.5	4184.2	3969.2	4142.9	4291.7	4574.9
55°	5517.6	5499.0	5486.6	5480.4	5232.3	4730.0	4688.6	4465.4	4715.5	4820.9	5238.5
57.5°	5881.5	5871.1	5937.3	6042.7	5943.5	5244.7	5201.3	4986.3	5265.4	5339.8	5958.0
60°	6148.2	6154.4	6336.3	6605.0	6536.8	5802.9	5751.2	5561.0	5800.8	5867.0	6677.4
62.5°	6150.2	6212.2	6634.0	7115.6	7194.2	6445.8	6385.9	6179.2	6350.7	6350.7	7322.4
65°	5563.1	5633.4	6580.2	7241.8	7859.9	7210.7	7152.9	6828.3	6892.4	6805.6	7928.1
67.5°	4978.1	5060.8	5951.8	7252.1	8327.1	8029.4	7961.2	7477.4	7367.9	7148.7	8351.9
70°	4589.4	4647.3	5391.5	7117.7	8608.2	8885.3	8833.6	8093.5	7742.0	7436.1	8263.0
72.5°	3863.8	3843.1	4554.3	6478.9	8765.4	9856.9	9813.5	8763.3	8066.6	7299.6	7047.4
75°	2243.0	2267.8	2826.0	4746.5	7901.2	10363.4	10359.2	9335.9	7924.0	6447.9	4856.1
77.5°	647.1	665.7	928.2	2085.9	4996.7	8839.8	9123.0	8538.0	6698.1	4595.6	2518.0
80°	283.2	297.7	403.1	694.6	2152.1	5774.0	6022.0	5774.0	4039.5	2108.6	988.2
82.5°	167.5	177.8	262.5	430.0	1031.6	2747.4	3082.3	2691.6	1742.7	895.1	409.3
85°	95.1	99.2	150.9	272.9	649.1	961.3	1079.1	1010.9	849.7	508.6	215.0
87.5°	43.4	45.5	74.4	128.2	363.8	324.6	337.0	446.5	492.0	310.1	107.5
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°	1624.9	1624.9	1624.9	1624.9	1624.9	1624.9	1624.9	1624.9	1624.9	1624.9	1624.9
2.5°	1622.8	1616.6	1604.2	1600.1	1593.9	1596.0	1598.0	1598.0	1600.1	1593.9	1593.9
5°	1606.3	1596.0	1583.6	1583.6	1583.6	1600.1	1614.6	1622.8	1627.0	1627.0	1622.8
7.5°	1600.1	1587.7	1573.2	1577.4	1581.5	1602.2	1629.0	1655.9	1664.2	1664.2	1660.0
10°	1612.5	1600.1	1589.8	1596.0	1606.3	1622.8	1643.5	1668.3	1689.0	1691.1	1689.0
12.5°	1641.4	1627.0	1616.6	1629.0	1641.4	1651.8	1662.1	1672.4	1699.3	1703.5	1703.5
15°	1689.0	1674.5	1662.1	1672.4	1676.6	1676.6	1676.6	1676.6	1703.5	1707.6	1707.6
17.5°	1736.5	1724.1	1711.7	1713.8	1701.4	1684.9	1678.6	1676.6	1691.1	1703.5	1705.5
20°	1782.0	1771.7	1759.3	1738.6	1707.6	1676.6	1666.2	1666.2	1674.5	1693.1	1693.1
22.5°	1831.6	1819.2	1798.6	1751.0	1699.3	1655.9	1645.6	1651.8	1662.1	1686.9	1684.9
25°	1887.4	1870.9	1835.8	1746.9	1672.4	1620.8	1622.8	1641.4	1660.0	1686.9	1686.9
27.5°	1949.5	1926.7	1856.4	1713.8	1612.5	1562.9	1581.5	1624.9	1651.8	1680.7	1684.9
30°	2017.7	1997.0	1873.0	1655.9	1515.3	1469.9	1515.3	1585.6	1627.0	1653.8	1660.0
32.5°	2100.4	2083.8	1887.4	1581.5	1389.2	1349.9	1416.1	1502.9	1569.1	1600.1	1606.3
35°	2203.7	2187.2	1906.1	1496.7	1271.4	1230.0	1290.0	1378.9	1465.7	1505.0	1517.4
37.5°	2338.1	2313.3	1922.6	1405.8	1172.2	1124.6	1153.6	1234.2	1312.7	1366.5	1381.0
40°	2509.7	2470.4	1937.1	1302.4	1085.3	1031.6	1041.9	1081.2	1126.7	1174.2	1192.8
42.5°	2751.6	2673.0	1939.1	1192.8	996.4	946.8	942.7	955.1	955.1	955.1	961.3
45°	3088.5	2939.7	1943.3	1089.5	905.5	853.8	841.4	837.3	806.2	746.3	742.2
47.5°	3514.4	3289.1	1961.9	1002.6	810.4	764.9	748.4	731.8	673.9	611.9	599.5
50°	4060.2	3694.3	1999.1	919.9	729.8	698.7	678.1	638.8	574.7	527.2	514.8
52.5°	4688.6	4175.9	2034.2	833.1	669.8	649.1	624.3	576.8	508.6	479.6	475.5
55°	5410.1	4713.4	2104.5	756.6	618.1	603.7	580.9	535.4	483.7	463.1	461.0
57.5°	6148.2	5315.0	2203.7	688.4	568.5	560.2	560.2	521.0	487.9	479.6	479.6
60°	6859.3	5831.9	2127.3	624.3	523.0	527.2	566.4	556.1	531.3	541.6	547.8
62.5°	7411.3	6135.7	1726.2	572.6	490.0	527.2	628.5	628.5	599.5	595.4	595.4
65°	7646.9	6131.6	1213.5	533.4	477.5	578.8	700.8	667.7	591.2	562.3	556.1
67.5°	7587.0	5862.9	837.3	506.5	473.4	632.6	733.9	640.9	554.0	529.2	510.6
70°	7059.8	5294.4	645.0	481.7	467.2	609.9	723.6	609.9	525.1	502.4	485.8
72.5°	5695.4	4246.2	535.4	456.9	442.4	564.4	688.4	580.9	502.4	477.5	461.0
75°	3632.2	2671.0	452.7	423.8	394.9	506.5	640.9	552.0	477.5	444.5	432.1
77.5°	1746.9	1151.5	394.9	384.5	355.6	469.3	593.3	514.8	444.5	417.6	409.3
80°	707.0	527.2	343.2	345.2	326.6	446.5	560.2	479.6	411.4	382.5	368.0
82.5°	368.0	306.0	289.4	297.7	297.7	425.9	535.4	450.7	382.5	370.0	322.5
85°	198.5	190.2	223.3	239.8	258.4	384.5	498.2	419.7	349.4	299.8	289.4
87.5°	97.2	124.0	126.1	144.7	179.9	308.0	419.7	351.4	291.5	241.9	237.7
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)