

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: P400513

Luminaire Tested: **ARCH-L-PA3-90-740-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400513
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-PA3-90-740-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 15473 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

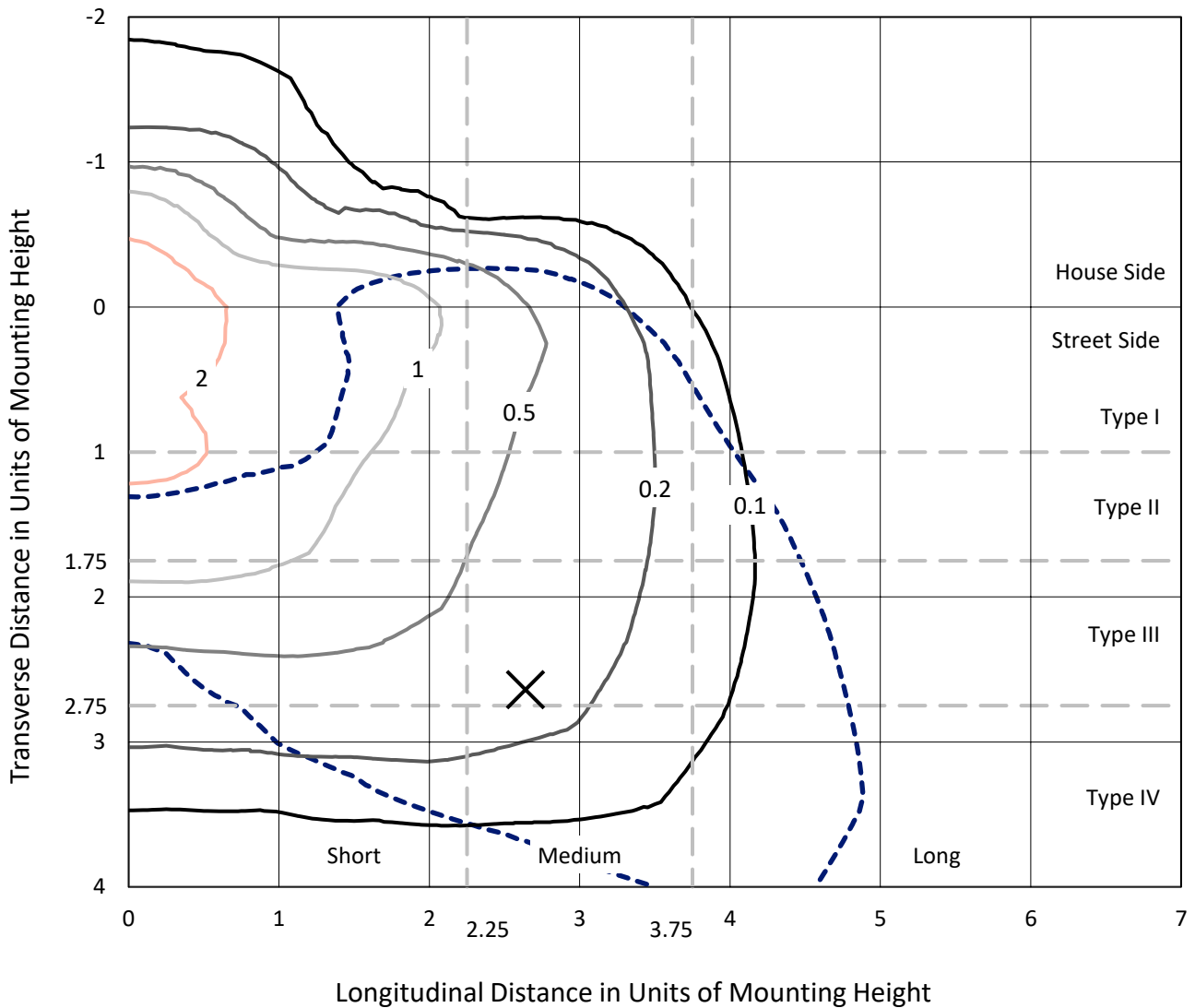
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

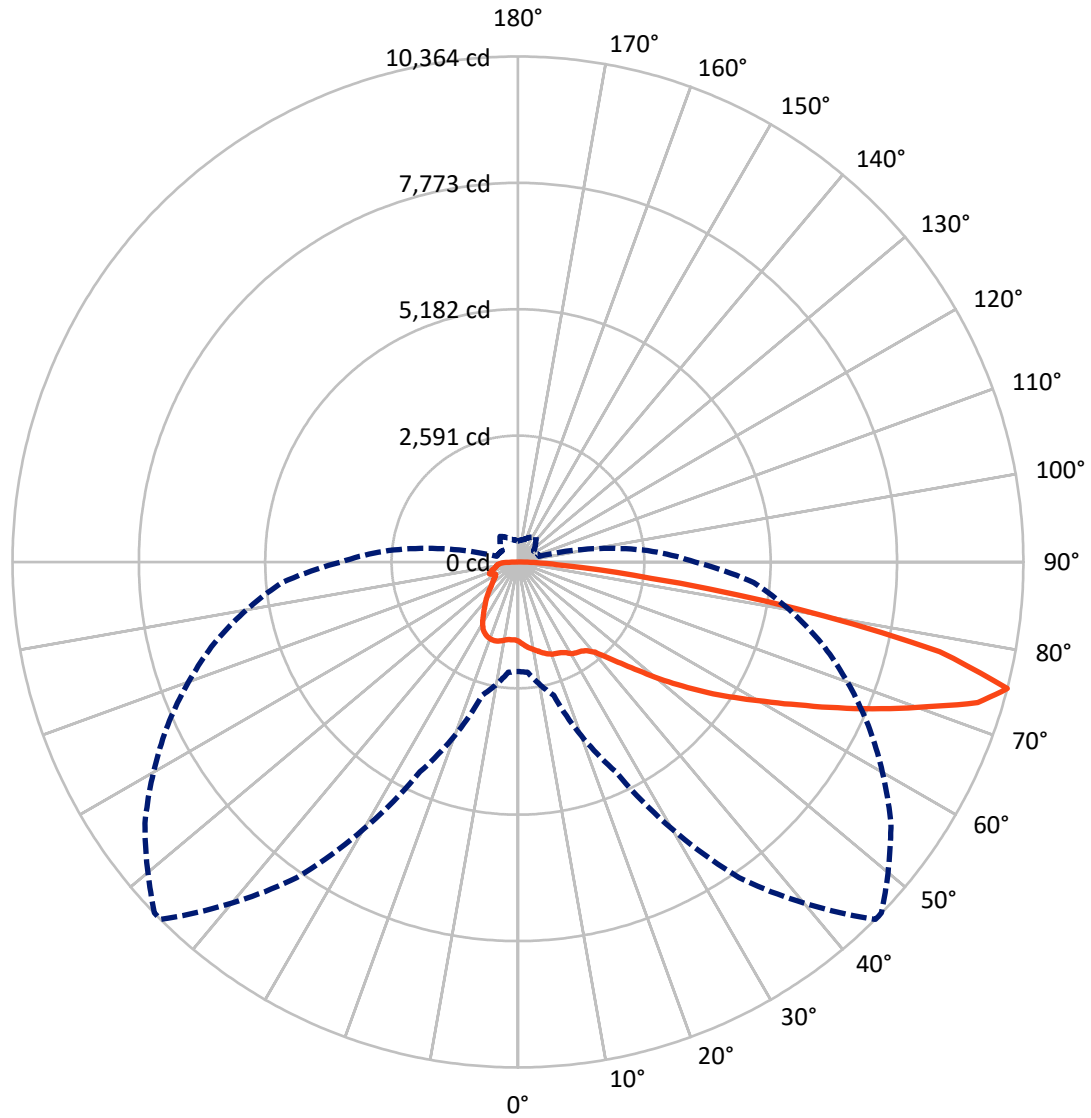
× Max cd
 - - - 1/2 Max cd



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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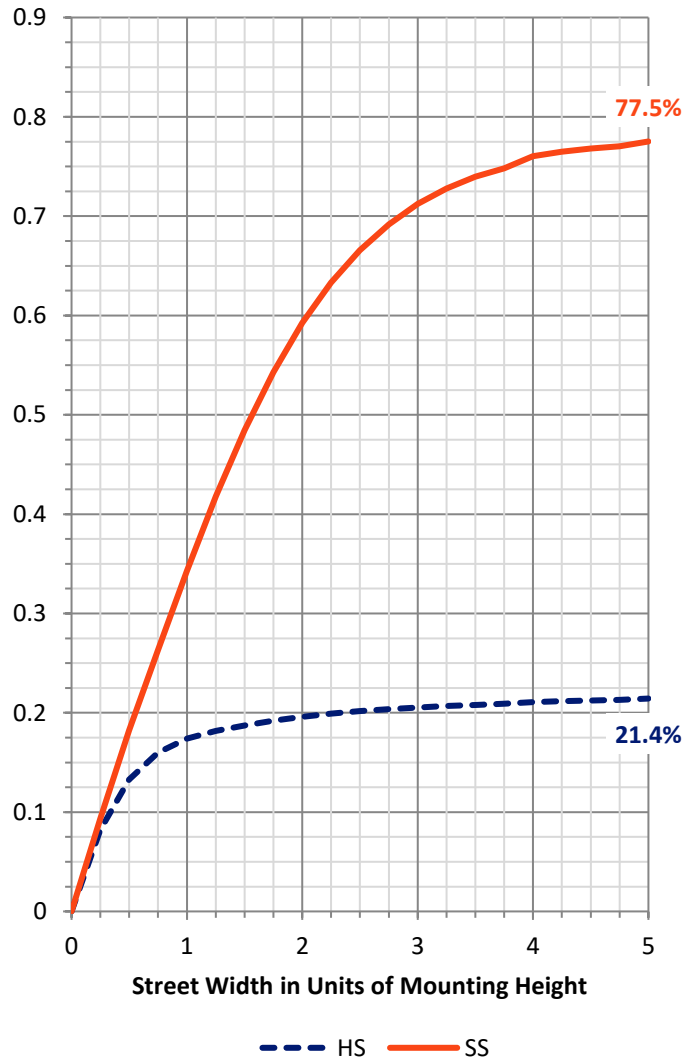
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3419.5	0.0	3419.5
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	12053.5	0.0	12053.5
	% Fixture	77.9	0.0	77.9
Total	Lumens	15473.0	0.0	15473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.0
10°-20°	511.4	3.3
20°-30°	871.9	5.6
30°-40°	1221.7	7.9
40°-50°	1794.8	11.6
50°-60°	2856.5	18.5
60°-70°	4063.3	26.3
70°-80°	3402.2	22.0
80°-90°	590.5	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°	15473.0	100.0
0°-180°	15473.0	100.0

Coefficient of Utilization



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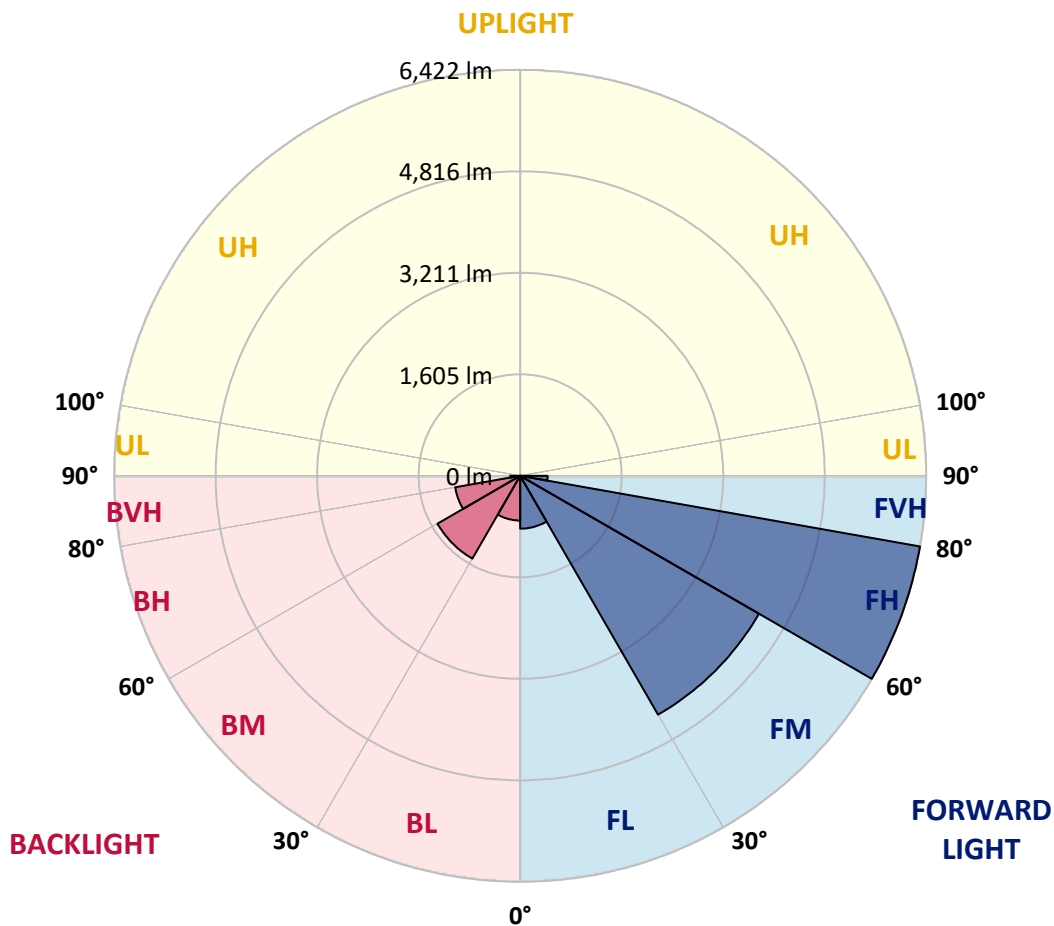
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.4	5.4			
FM (30°-60°)	4361.4	28.2			
FH (60°-80°)	6421.7	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°)	1511.6	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°	1625.0	1625.0	1625.0	1625.0	1625.0	1625.0	1625.0	1625.0	1625.0	1625.0	1625.0
2.5°	1718.0	1709.8	1705.6	1705.6	1689.1	1678.8	1676.7	1662.2	1649.8	1637.4	1627.1
5°	1817.3	1811.1	1798.7	1788.3	1765.6	1736.6	1732.5	1701.5	1670.5	1641.5	1616.7
7.5°	1908.2	1895.8	1881.4	1860.7	1823.5	1784.2	1778.0	1734.6	1691.2	1647.7	1614.7
10°	1984.7	1972.3	1951.7	1922.7	1875.2	1827.6	1821.4	1775.9	1730.4	1678.8	1631.2
12.5°	2057.1	2046.8	2015.7	1976.5	1920.6	1877.2	1871.0	1831.7	1784.2	1726.3	1664.3
15°	2119.1	2108.8	2075.7	2030.2	1966.1	1933.1	1924.8	1887.6	1840.0	1778.0	1713.9
17.5°	2150.1	2150.1	2115.0	2065.4	2005.4	1980.6	1974.4	1928.9	1885.5	1825.5	1761.5
20°	2160.5	2164.6	2139.8	2079.8	2028.2	2017.8	2011.6	1974.4	1924.8	1866.9	1806.9
22.5°	2166.7	2174.9	2154.3	2086.0	2042.6	2036.4	2032.3	2007.5	1968.2	1912.4	1852.4
25°	2187.3	2187.3	2172.9	2096.4	2061.2	2059.2	2059.2	2044.7	2017.8	1970.3	1910.3
27.5°	2218.4	2216.3	2197.7	2119.1	2102.6	2108.8	2106.7	2104.6	2086.0	2038.5	1974.4
30°	2270.0	2270.0	2249.4	2164.6	2154.3	2181.1	2183.2	2187.3	2158.4	2084.0	2032.3
32.5°	2348.6	2340.3	2319.7	2210.1	2193.5	2218.4	2222.5	2220.4	2195.6	2125.3	2100.5
35°	2590.5	2571.9	2497.5	2311.4	2228.7	2243.2	2245.2	2255.6	2259.7	2203.9	2191.5
37.5°	3014.3	2989.5	2875.8	2551.2	2340.3	2305.2	2303.1	2330.0	2352.7	2303.1	2303.1
40°	3475.4	3454.7	3388.5	2964.7	2547.1	2431.3	2423.0	2447.8	2476.8	2441.6	2452.0
42.5°	3872.3	3888.8	3895.0	3403.0	2857.2	2667.0	2644.2	2609.1	2654.6	2623.6	2664.9
45°	4170.0	4161.7	4275.5	3851.6	3258.3	2962.6	2931.6	2836.5	2894.4	2892.3	2983.3
47.5°	4486.3	4471.9	4519.4	4273.4	3715.2	3324.4	3276.9	3136.3	3223.1	3283.1	3434.0
50°	4786.1	4790.2	4806.8	4606.2	4211.4	3764.8	3704.8	3516.7	3640.8	3766.9	3979.8
52.5°	5176.9	5147.9	5127.2	4994.9	4767.5	4223.8	4184.5	3969.5	4143.1	4292.0	4575.2
55°	5518.0	5499.4	5487.0	5480.8	5232.7	4730.3	4688.9	4465.7	4715.8	4821.3	5238.9
57.5°	5881.9	5871.5	5937.7	6043.1	5943.9	5245.1	5201.7	4986.7	5265.8	5340.2	5958.3
60°	6148.6	6154.8	6336.7	6605.5	6537.2	5803.3	5751.6	5561.4	5801.2	5867.4	6677.8
62.5°	6150.6	6212.6	6634.4	7116.1	7194.7	6446.3	6386.3	6179.6	6351.2	6351.2	7322.9
65°	5563.5	5633.8	6580.6	7242.2	7860.4	7211.2	7153.3	6828.7	6892.8	6806.0	7928.6
67.5°	4978.4	5061.1	5952.1	7252.6	8327.6	8029.9	7961.7	7477.9	7368.3	7149.2	8352.4
70°	4589.7	4647.6	5391.9	7118.2	8608.8	8885.8	8834.1	8094.0	7742.5	7436.6	8263.5
72.5°	3864.0	3843.4	4554.6	6479.3	8765.9	9857.5	9814.1	8763.9	8067.1	7300.1	7047.9
75°	2243.2	2268.0	2826.2	4746.8	7901.7	10364.0	10359.9	9336.5	7924.5	6448.3	4856.4
77.5°	647.1	665.7	928.3	2086.0	4997.0	8840.4	9123.6	8538.5	6698.5	4595.9	2518.1
80°	283.2	297.7	403.1	694.7	2152.2	5774.3	6022.4	5774.3	4039.8	2108.8	988.2
82.5°	167.5	177.8	262.6	430.0	1031.6	2747.6	3082.5	2691.8	1742.8	895.2	409.4
85°	95.1	99.2	150.9	272.9	649.2	961.4	1079.2	1011.0	849.7	508.6	215.0
87.5°	43.4	45.5	74.4	128.2	363.9	324.6	337.0	446.6	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°	1625.0	1625.0	1625.0	1625.0	1625.0	1625.0	1625.0	1625.0	1625.0	1625.0	1625.0
2.5°	1622.9	1616.7	1604.3	1600.2	1594.0	1596.1	1598.1	1598.1	1600.2	1594.0	1594.0
5°	1606.4	1596.1	1583.7	1583.7	1583.7	1600.2	1614.7	1622.9	1627.1	1627.1	1622.9
7.5°	1600.2	1587.8	1573.3	1577.5	1581.6	1602.3	1629.1	1656.0	1664.3	1664.3	1660.1
10°	1612.6	1600.2	1589.9	1596.1	1606.4	1622.9	1643.6	1668.4	1689.1	1691.2	1689.1
12.5°	1641.5	1627.1	1616.7	1629.1	1641.5	1651.9	1662.2	1672.6	1699.4	1703.6	1703.6
15°	1689.1	1674.6	1662.2	1672.6	1676.7	1676.7	1676.7	1676.7	1703.6	1707.7	1707.7
17.5°	1736.6	1724.2	1711.8	1713.9	1701.5	1685.0	1678.8	1676.7	1691.2	1703.6	1705.6
20°	1782.1	1771.8	1759.4	1738.7	1707.7	1676.7	1666.4	1666.4	1674.6	1693.2	1693.2
22.5°	1831.7	1819.3	1798.7	1751.1	1699.4	1656.0	1645.7	1651.9	1662.2	1687.0	1685.0
25°	1887.6	1871.0	1835.9	1747.0	1672.6	1620.9	1622.9	1641.5	1660.1	1687.0	1687.0
27.5°	1949.6	1926.8	1856.6	1713.9	1612.6	1563.0	1581.6	1625.0	1651.9	1680.8	1685.0
30°	2017.8	1997.1	1873.1	1656.0	1515.4	1469.9	1515.4	1585.7	1627.1	1653.9	1660.1
32.5°	2100.5	2084.0	1887.6	1581.6	1389.3	1350.0	1416.2	1503.0	1569.2	1600.2	1606.4
35°	2203.9	2187.3	1906.2	1496.8	1271.5	1230.1	1290.1	1379.0	1465.8	1505.1	1517.5
37.5°	2338.3	2313.5	1922.7	1405.9	1172.2	1124.7	1153.6	1234.3	1312.8	1366.6	1381.0
40°	2509.9	2470.6	1937.2	1302.5	1085.4	1031.6	1042.0	1081.3	1126.8	1174.3	1192.9
42.5°	2751.8	2673.2	1939.3	1192.9	996.5	946.9	942.8	955.2	955.2	955.2	961.4
45°	3088.7	2939.9	1943.4	1089.5	905.5	853.9	841.4	837.3	806.3	746.3	742.2
47.5°	3514.6	3289.3	1962.0	1002.7	810.4	765.0	748.4	731.9	674.0	612.0	599.6
50°	4060.4	3694.5	1999.2	920.0	729.8	698.8	678.1	638.8	574.7	527.2	514.8
52.5°	4688.9	4176.2	2034.4	833.2	669.8	649.2	624.4	576.8	508.6	479.6	475.5
55°	5410.5	4713.8	2104.6	756.7	618.2	603.7	580.9	535.5	483.8	463.1	461.0
57.5°	6148.6	5315.4	2203.9	688.5	568.5	560.3	560.3	521.0	487.9	479.6	479.6
60°	6859.7	5832.2	2127.4	624.4	523.1	527.2	566.5	556.1	531.3	541.7	547.9
62.5°	7411.8	6136.1	1726.3	572.7	490.0	527.2	628.5	628.5	599.6	595.4	595.4
65°	7647.4	6132.0	1213.6	533.4	477.6	578.9	700.9	667.8	591.3	562.3	556.1
67.5°	7587.5	5863.2	837.3	506.5	473.4	632.6	733.9	640.9	554.1	529.3	510.7
70°	7060.3	5294.7	645.0	481.7	467.2	609.9	723.6	609.9	525.1	502.4	485.8
72.5°	5695.8	4246.5	535.5	456.9	442.4	564.4	688.5	580.9	502.4	477.6	461.0
75°	3632.5	2671.1	452.8	423.8	394.9	506.5	640.9	552.0	477.6	444.5	432.1
77.5°	1747.0	1151.6	394.9	384.5	355.6	469.3	593.4	514.8	444.5	417.6	409.4
80°	707.1	527.2	343.2	345.3	326.7	446.6	560.3	479.6	411.4	382.5	368.0
82.5°	368.0	306.0	289.4	297.7	297.7	425.9	535.5	450.7	382.5	370.1	322.5
85°	198.5	190.2	223.3	239.8	258.4	384.5	498.3	419.7	349.4	299.8	289.4
87.5°	97.2	124.0	126.1	144.7	179.9	308.0	419.7	351.5	291.5	241.9	237.8
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)