

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: P399253

Luminaire Tested: **ARCH-L-PA3-110-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399253
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-PA3-110-830-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14472 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

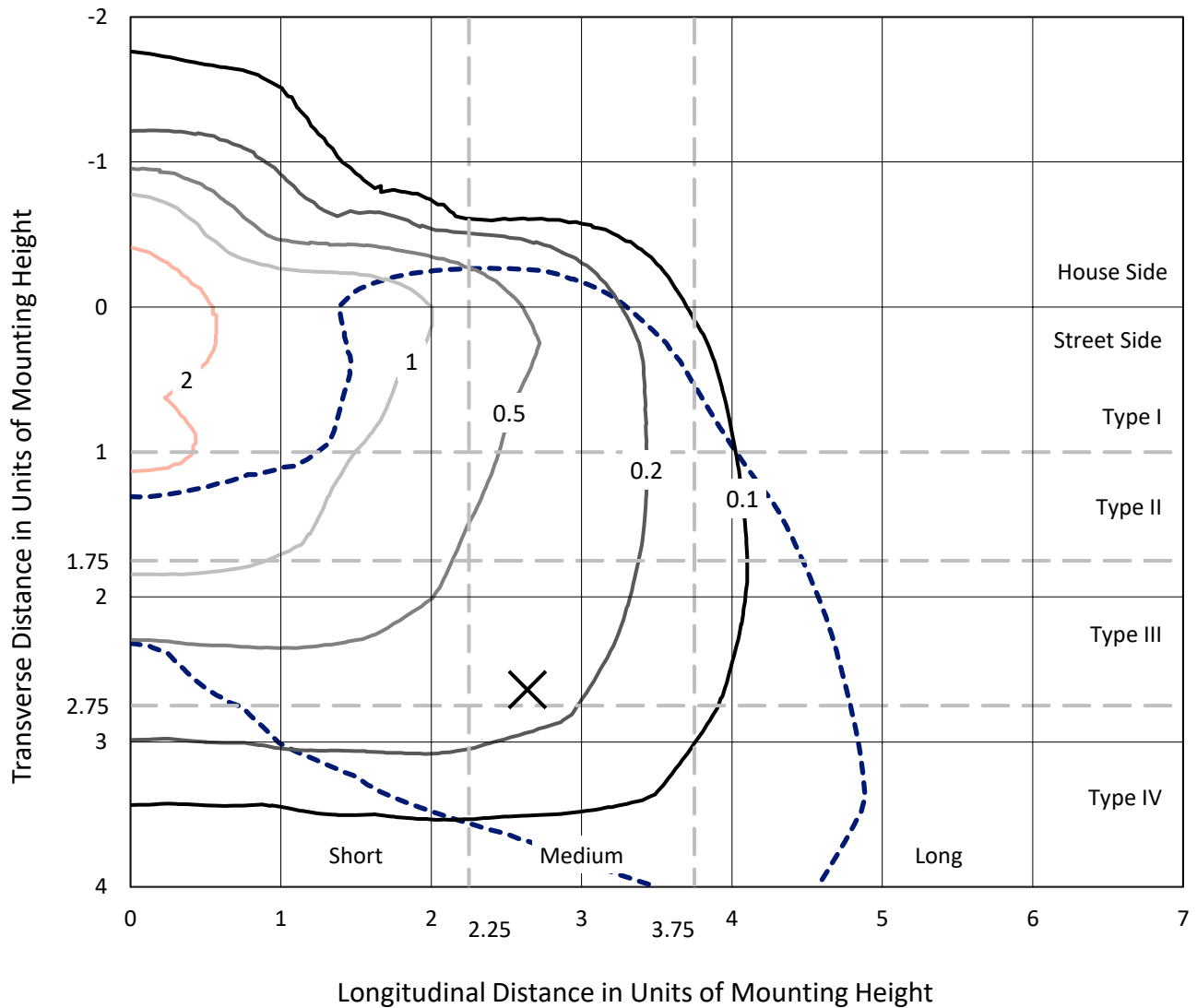
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

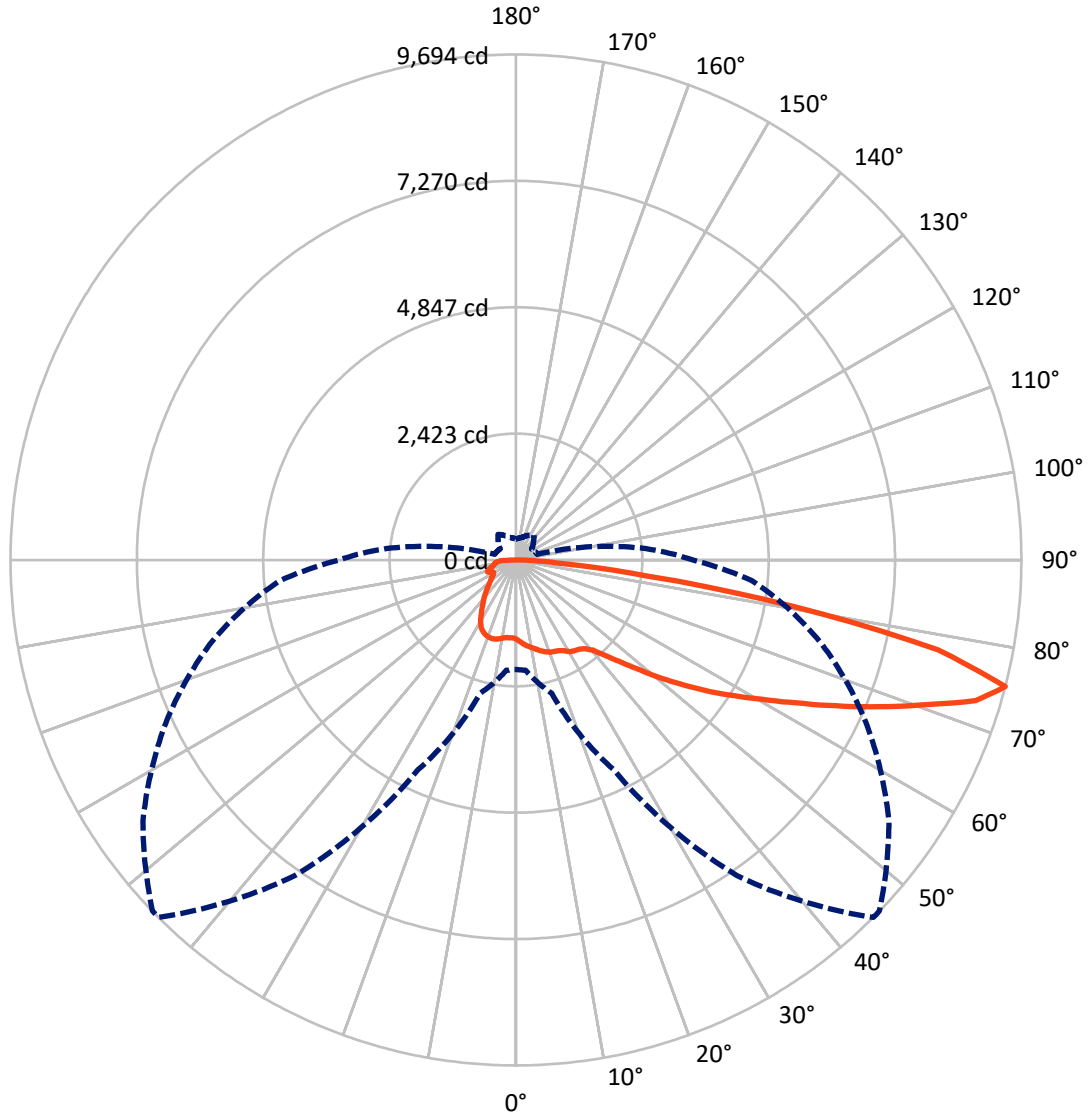
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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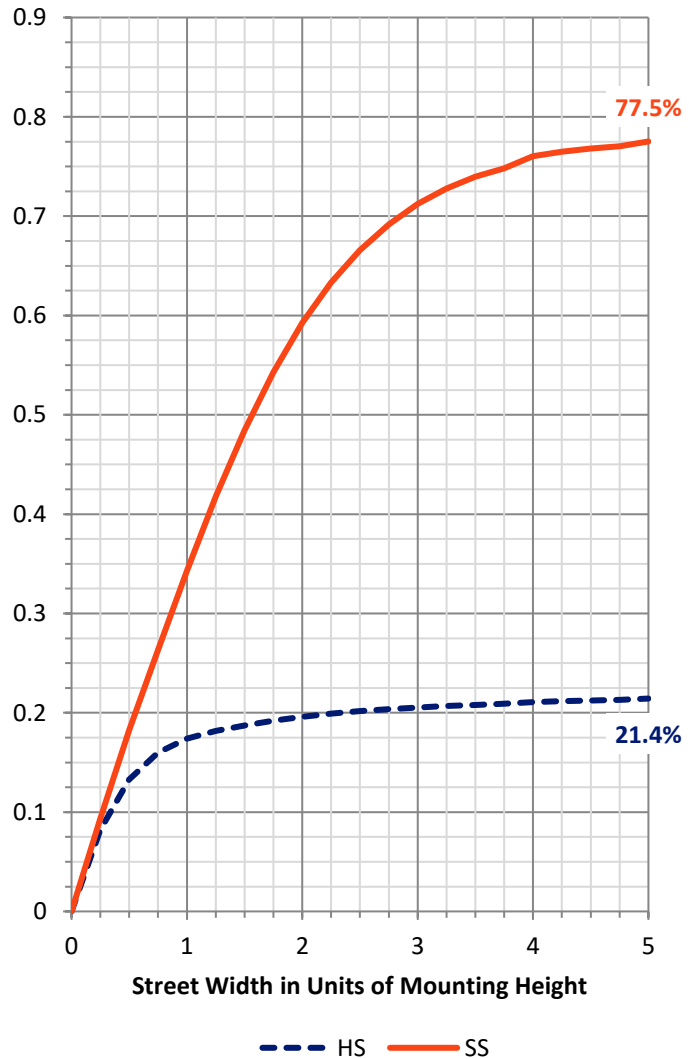
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3198.2	0.0	3198.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	11273.8	0.0	11273.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	14472.0	0.0	14472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	1.0
10°-20°	478.4	3.3
20°-30°	815.5	5.6
30°-40°	1142.6	7.9
40°-50°	1678.7	11.6
50°-60°	2671.7	18.5
60°-70°	3800.4	26.3
70°-80°	3182.1	22.0
80°-90°	552.3	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°	14472.0	100.0
0°-180°	14472.0	100.0

Coefficient of Utilization



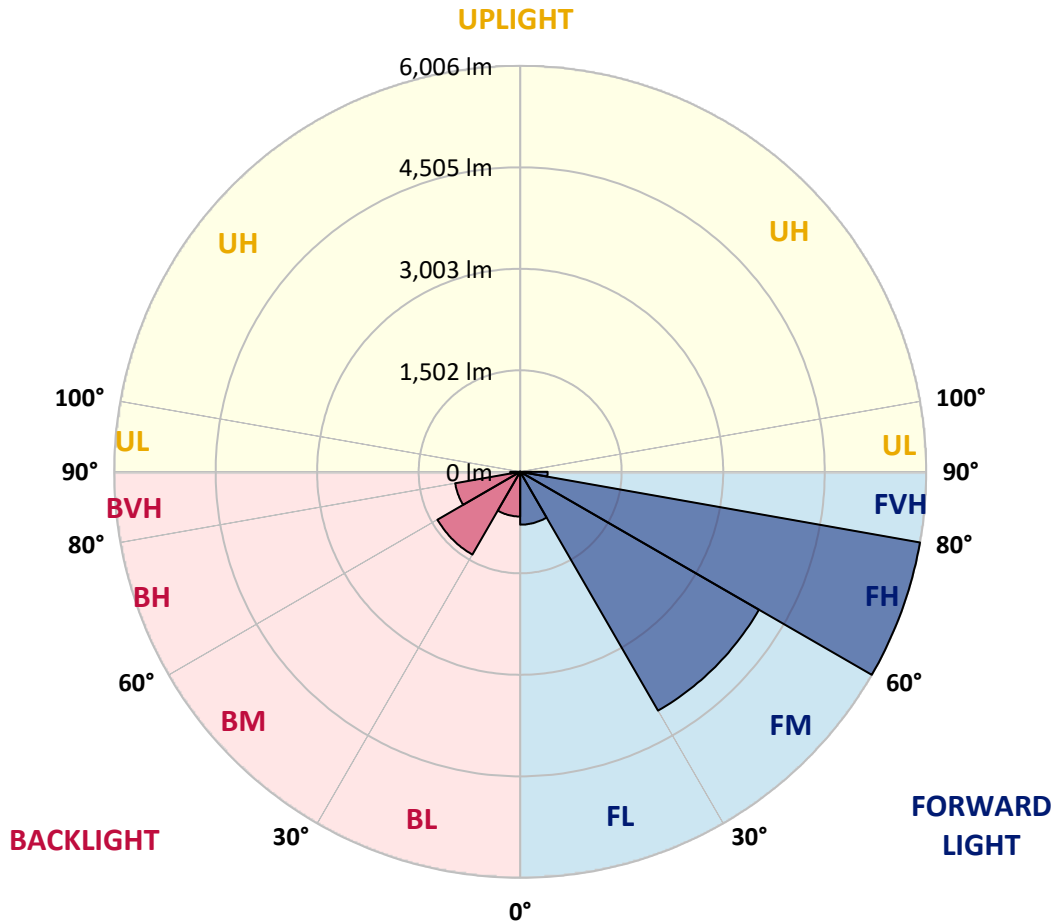
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	782.3	5.4			
FM (30°-60°)	4079.2	28.2			
FH (60°-80°)	6006.2	41.5			G3/7500
FVH (80°-90°)	406.0	2.8			G3/500
BL (0°-30°)	661.9	4.6	B2/1000		
BM (30°-60°)	1413.8	9.8	B2/2500		
BH (60°-80°)	976.3	6.7	B2/1000		G2/1000
BVH (80°-90°)	146.2	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9
2.5°	1606.9	1599.2	1595.3	1595.3	1579.8	1570.2	1568.2	1554.7	1543.1	1531.5	1521.8
5°	1699.7	1693.9	1682.3	1672.6	1651.4	1624.3	1620.4	1591.4	1562.4	1535.3	1512.1
7.5°	1784.8	1773.2	1759.7	1740.3	1705.5	1668.8	1663.0	1622.4	1581.8	1541.1	1510.2
10°	1856.3	1844.7	1825.4	1798.3	1753.9	1709.4	1703.6	1661.0	1618.5	1570.2	1525.7
12.5°	1924.0	1914.3	1885.3	1848.6	1796.4	1755.8	1750.0	1713.2	1668.8	1614.6	1556.6
15°	1982.0	1972.4	1941.4	1898.9	1838.9	1808.0	1800.3	1765.5	1721.0	1663.0	1603.0
17.5°	2011.0	2011.0	1978.2	1931.8	1875.7	1852.5	1846.7	1804.1	1763.5	1707.4	1647.5
20°	2020.7	2024.6	2001.4	1945.3	1896.9	1887.3	1881.5	1846.7	1800.3	1746.1	1690.0
22.5°	2026.5	2034.2	2014.9	1951.1	1910.5	1904.7	1900.8	1877.6	1840.9	1788.7	1732.6
25°	2045.8	2045.8	2032.3	1960.8	1927.9	1926.0	1926.0	1912.4	1887.3	1842.8	1786.7
27.5°	2074.8	2072.9	2055.5	1982.0	1966.6	1972.4	1970.4	1968.5	1951.1	1906.6	1846.7
30°	2123.2	2123.2	2103.8	2024.6	2014.9	2040.0	2042.0	2045.8	2018.8	1949.2	1900.8
32.5°	2196.7	2188.9	2169.6	2067.1	2051.6	2074.8	2078.7	2076.8	2053.6	1987.8	1964.6
35°	2422.9	2405.5	2335.9	2161.9	2084.5	2098.0	2100.0	2109.7	2113.5	2061.3	2049.7
37.5°	2819.3	2796.1	2689.8	2386.2	2188.9	2156.1	2154.1	2179.3	2200.5	2154.1	2154.1
40°	3250.5	3231.2	3169.3	2772.9	2382.3	2274.0	2266.3	2289.5	2316.6	2283.7	2293.4
42.5°	3621.8	3637.3	3643.1	3182.8	2672.4	2494.5	2473.2	2440.3	2482.9	2453.8	2492.5
45°	3900.2	3892.5	3998.9	3602.5	3047.5	2771.0	2742.0	2653.0	2707.2	2705.2	2790.3
47.5°	4196.1	4182.6	4227.0	3996.9	3474.8	3109.4	3064.9	2933.4	3014.6	3070.7	3211.9
50°	4476.5	4480.3	4495.8	4308.3	3938.9	3521.2	3465.2	3289.2	3405.2	3523.2	3722.3
52.5°	4841.9	4814.9	4795.5	4671.8	4459.1	3950.5	3913.8	3712.7	3875.1	4014.3	4279.2
55°	5161.0	5143.6	5132.0	5126.2	4894.2	4424.3	4385.6	4176.8	4410.7	4509.4	4900.0
57.5°	5501.3	5491.7	5553.5	5652.2	5559.3	4905.8	4865.2	4664.0	4925.1	4994.7	5572.9
60°	5750.8	5756.6	5926.7	6178.1	6114.3	5427.9	5379.5	5201.6	5425.9	5487.8	6245.8
62.5°	5752.7	5810.7	6205.2	6655.7	6729.2	6029.2	5973.2	5779.8	5940.3	5940.3	6849.1
65°	5203.5	5269.3	6154.9	6773.7	7351.9	6744.7	6690.6	6387.0	6446.9	6365.7	7415.7
67.5°	4656.3	4733.7	5567.1	6783.4	7788.9	7510.4	7446.6	6994.1	6891.7	6686.7	7812.1
70°	4292.8	4346.9	5043.1	6657.7	8051.9	8311.0	8262.6	7570.4	7241.7	6955.5	7728.9
72.5°	3614.1	3594.7	4259.9	6060.2	8198.8	9219.8	9179.2	8196.9	7545.2	6827.8	6591.9
75°	2098.0	2121.3	2643.3	4439.7	7390.5	9693.6	9689.7	8732.5	7411.8	6031.2	4542.2
77.5°	605.2	622.6	868.2	1951.1	4673.7	8268.4	8533.4	7986.1	6265.1	4298.6	2355.2
80°	264.9	278.5	377.1	649.7	2013.0	5400.8	5632.8	5400.8	3778.4	1972.4	924.3
82.5°	156.6	166.3	245.6	402.2	964.9	2569.9	2883.1	2517.7	1630.1	837.3	382.9
85°	88.9	92.8	141.2	255.2	607.2	899.2	1009.4	945.6	794.7	475.7	201.1
87.5°	40.6	42.5	69.6	119.9	340.3	303.6	315.2	417.7	460.2	290.1	100.6
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°	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9
2.5°	1517.9	1512.1	1500.5	1496.7	1490.9	1492.8	1494.7	1494.7	1496.7	1490.9	1490.9
5°	1502.5	1492.8	1481.2	1481.2	1481.2	1496.7	1510.2	1517.9	1521.8	1521.8	1517.9
7.5°	1496.7	1485.1	1471.5	1475.4	1479.3	1498.6	1523.7	1548.9	1556.6	1556.6	1552.7
10°	1508.3	1496.7	1487.0	1492.8	1502.5	1517.9	1537.3	1560.5	1579.8	1581.8	1579.8
12.5°	1535.3	1521.8	1512.1	1523.7	1535.3	1545.0	1554.7	1564.4	1589.5	1593.4	1593.4
15°	1579.8	1566.3	1554.7	1564.4	1568.2	1568.2	1568.2	1568.2	1593.4	1597.2	1597.2
17.5°	1624.3	1612.7	1601.1	1603.0	1591.4	1576.0	1570.2	1568.2	1581.8	1593.4	1595.3
20°	1666.8	1657.2	1645.6	1626.2	1597.2	1568.2	1558.6	1558.6	1566.3	1583.7	1583.7
22.5°	1713.2	1701.6	1682.3	1637.8	1589.5	1548.9	1539.2	1545.0	1554.7	1577.9	1576.0
25°	1765.5	1750.0	1717.1	1634.0	1564.4	1516.0	1517.9	1535.3	1552.7	1577.9	1577.9
27.5°	1823.5	1802.2	1736.4	1603.0	1508.3	1461.9	1479.3	1519.9	1545.0	1572.1	1576.0
30°	1887.3	1867.9	1751.9	1548.9	1417.4	1374.9	1417.4	1483.1	1521.8	1546.9	1552.7
32.5°	1964.6	1949.2	1765.5	1479.3	1299.4	1262.7	1324.6	1405.8	1467.7	1496.7	1502.5
35°	2061.3	2045.8	1782.9	1400.0	1189.2	1150.5	1206.6	1289.8	1371.0	1407.7	1419.3
37.5°	2187.0	2163.8	1798.3	1314.9	1096.4	1051.9	1079.0	1154.4	1227.9	1278.2	1291.7
40°	2347.5	2310.8	1811.9	1218.2	1015.2	964.9	974.6	1011.3	1053.9	1098.3	1115.7
42.5°	2573.7	2500.3	1813.8	1115.7	932.0	885.6	881.8	893.4	893.4	893.4	899.2
45°	2888.9	2749.7	1817.7	1019.1	847.0	798.6	787.0	783.1	754.1	698.1	694.2
47.5°	3287.3	3076.5	1835.1	937.8	758.0	715.5	700.0	684.5	630.4	572.4	560.8
50°	3797.8	3455.5	1869.9	860.5	682.6	653.6	634.2	597.5	537.6	493.1	481.5
52.5°	4385.6	3906.0	1902.7	779.3	626.5	607.2	584.0	539.5	475.7	448.6	444.7
55°	5060.5	4408.8	1968.5	707.7	578.2	564.6	543.4	500.8	452.5	433.1	431.2
57.5°	5750.8	4971.5	2061.3	643.9	531.8	524.0	524.0	487.3	456.3	448.6	448.6
60°	6416.0	5454.9	1989.8	584.0	489.2	493.1	529.8	520.2	497.0	506.6	512.4
62.5°	6932.3	5739.2	1614.6	535.6	458.3	493.1	587.8	587.8	560.8	556.9	556.9
65°	7152.7	5735.3	1135.1	498.9	446.7	541.4	655.5	624.6	553.0	526.0	520.2
67.5°	7096.6	5483.9	783.1	473.8	442.8	591.7	686.5	599.4	518.2	495.0	477.6
70°	6603.5	4952.2	603.3	450.5	437.0	570.4	676.8	570.4	491.2	469.9	454.4
72.5°	5327.3	3971.8	500.8	427.3	413.8	527.9	643.9	543.4	469.9	446.7	431.2
75°	3397.5	2498.3	423.5	396.4	369.3	473.8	599.4	516.3	446.7	415.7	404.1
77.5°	1634.0	1077.1	369.3	359.7	332.6	438.9	555.0	481.5	415.7	390.6	382.9
80°	661.3	493.1	321.0	322.9	305.5	417.7	524.0	448.6	384.8	357.7	344.2
82.5°	344.2	286.2	270.7	278.5	278.5	398.3	500.8	421.5	357.7	346.1	301.7
85°	185.6	177.9	208.8	224.3	241.7	359.7	466.0	392.5	326.8	280.4	270.7
87.5°	90.9	116.0	118.0	135.4	168.2	288.1	392.5	328.7	272.6	226.2	222.4
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)