

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: P400502

Luminaire Tested: **ARCH-L-PA3-90-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400502
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-PA3-90-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14149 lumens
Efficiency: N/A
Efficacy: 152.1 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

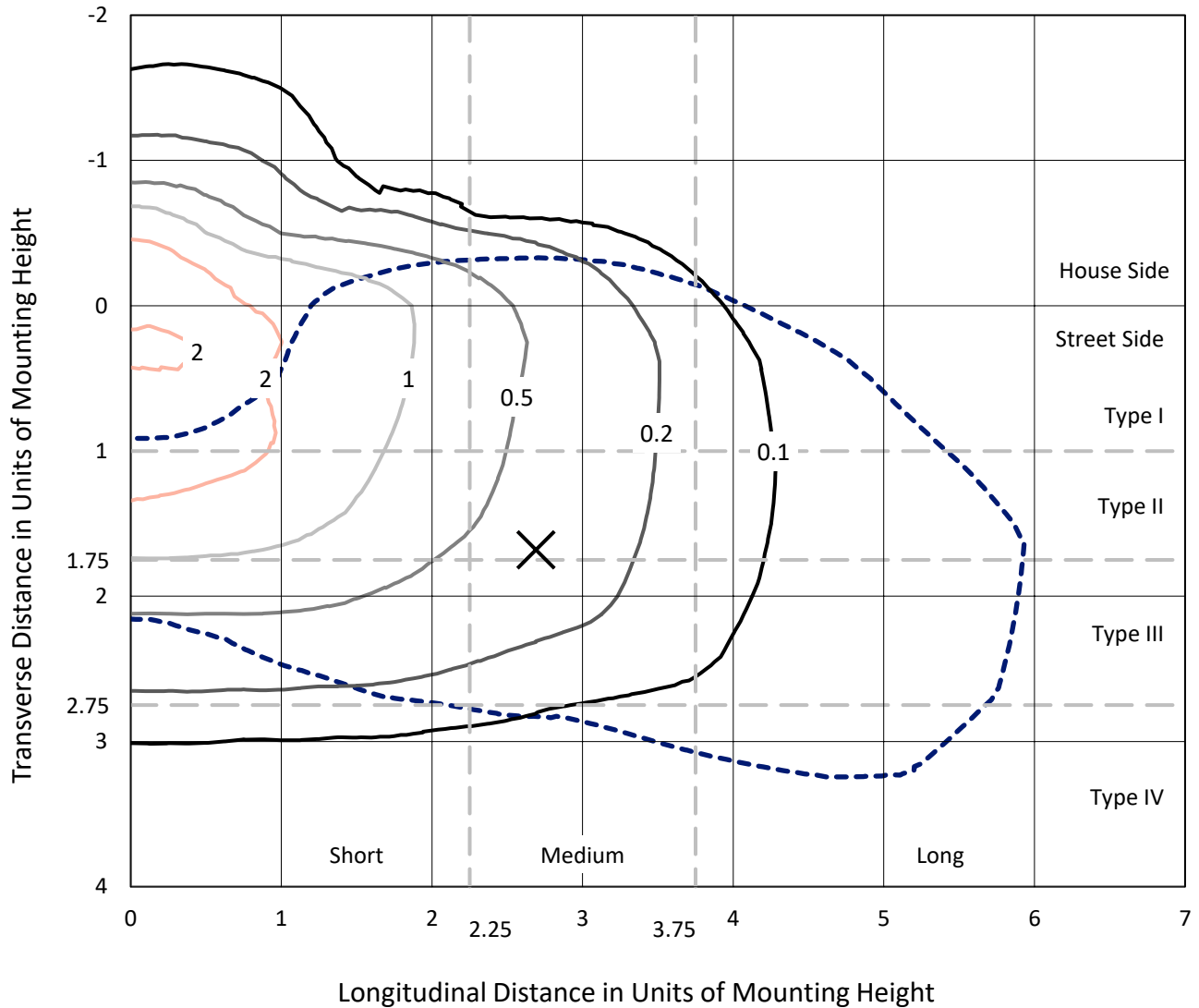
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

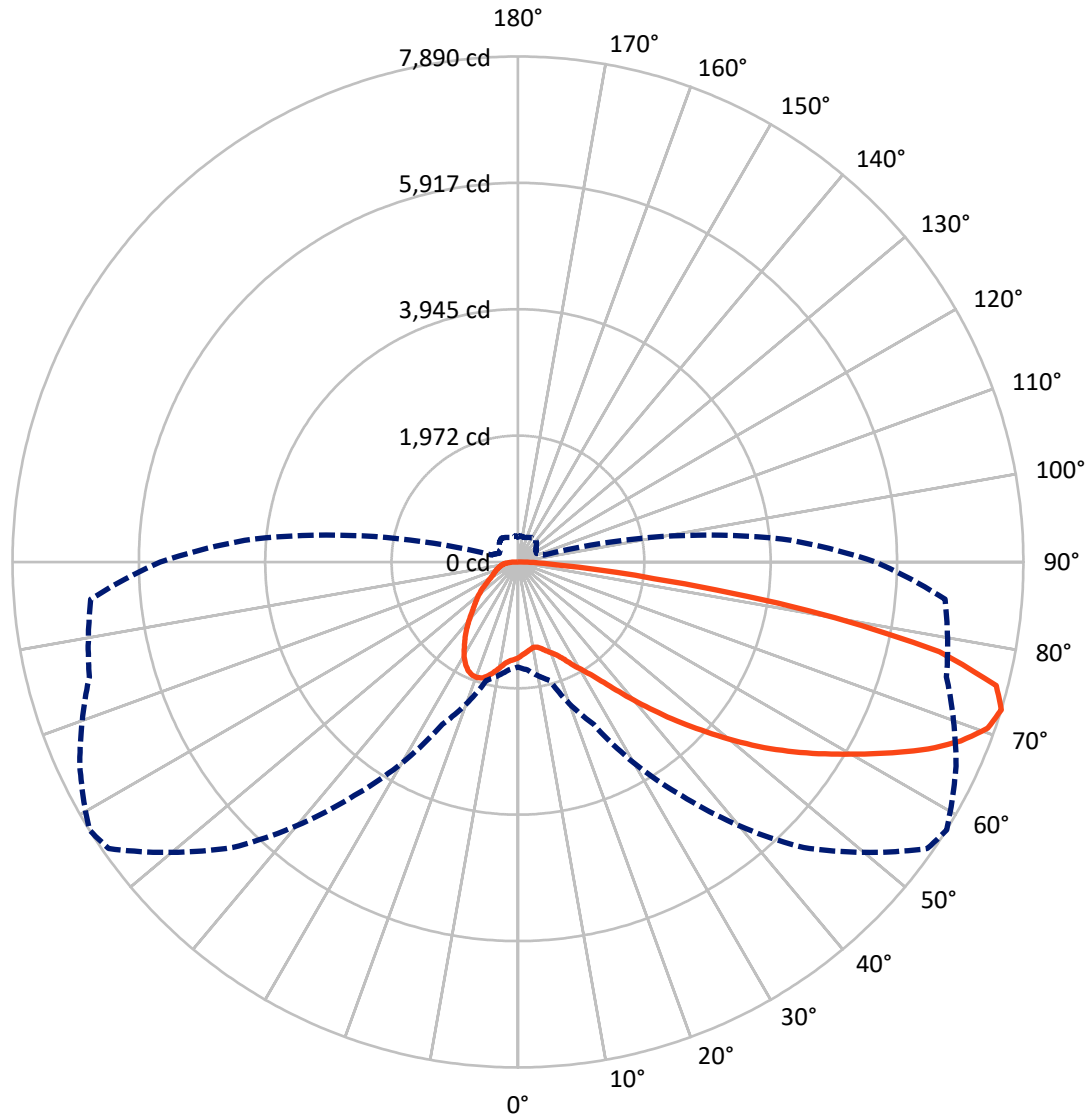
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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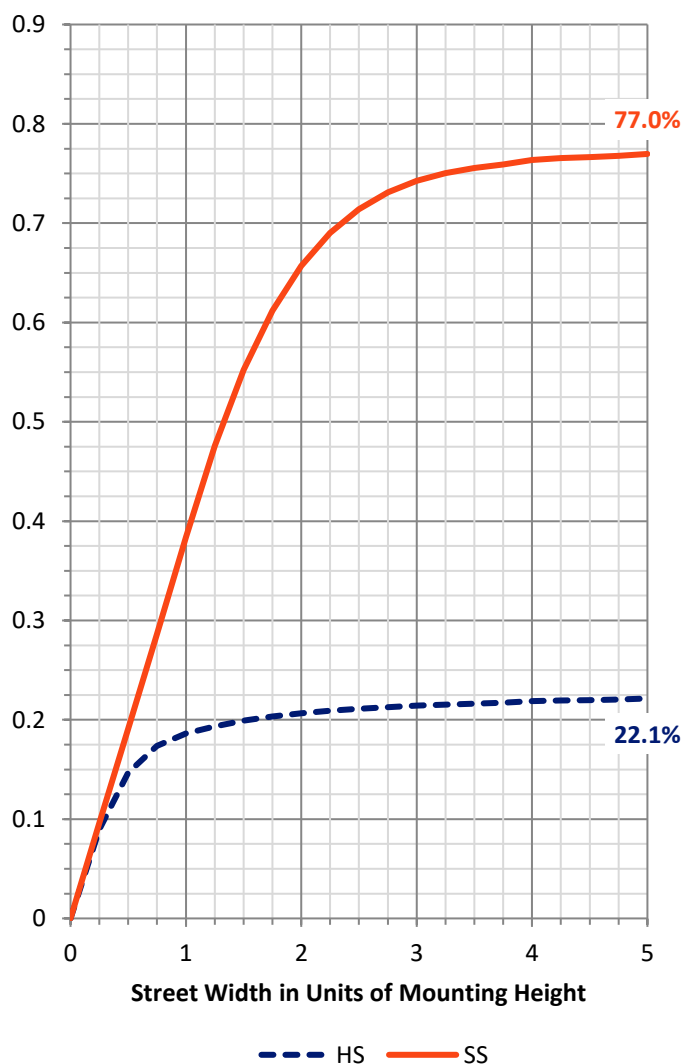
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3208.8	0.0	3208.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	10940.2	0.0	10940.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	14149.0	0.0	14149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	1.0
10°-20°	456.6	3.2
20°-30°	817.9	5.8
30°-40°	1230.3	8.7
40°-50°	1992.3	14.1
50°-60°	2999.0	21.2
60°-70°	3529.5	24.9
70°-80°	2502.8	17.7
80°-90°	476.9	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°	14149.0	100.0
0°-180°	14149.0	100.0

Coefficient of Utilization



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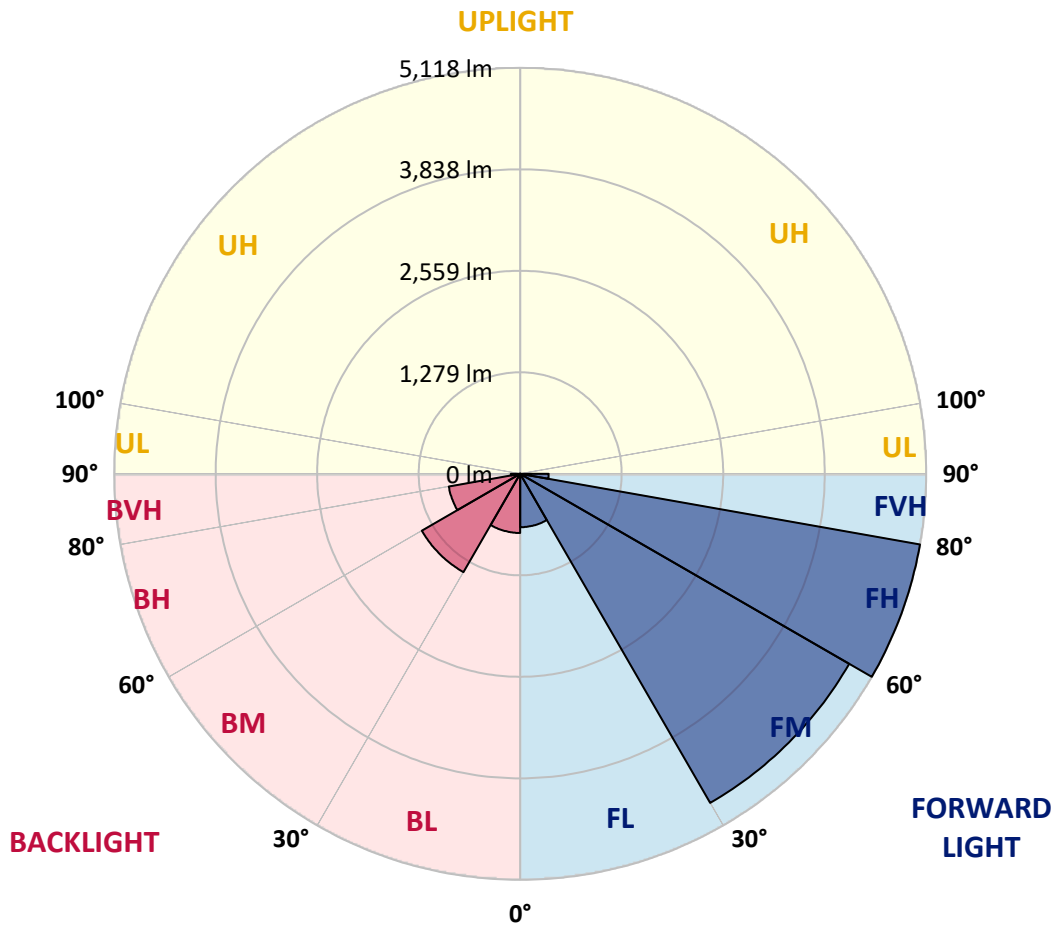
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.8	4.8			
FM (30°-60°)	4789.8	33.9			
FH (60°-80°)	5117.7	36.2			G3/7500
FVH (80°-90°)	359.7	2.5			G3/500
BL (0°-30°)	745.4	5.3	B2/1000		
BM (30°-60°)	1431.8	10.1	B2/2500		
BH (60°-80°)	914.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	117.2	0.8			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°	55°	58°	65°	75°	85°
0°	1492.4	1492.4	1492.4	1492.4	1492.4	1492.4	1492.4	1492.4	1492.4	1492.4	1492.4
2.5°	1436.4	1428.9	1430.8	1430.8	1438.3	1442.0	1443.9	1449.5	1453.2	1462.5	1475.6
5°	1369.1	1363.5	1365.4	1367.3	1380.3	1393.4	1404.6	1412.1	1423.3	1438.3	1456.9
7.5°	1320.6	1316.8	1318.7	1322.4	1333.7	1348.6	1367.3	1378.5	1395.3	1423.3	1455.1
10°	1285.1	1285.1	1287.0	1294.4	1305.6	1324.3	1339.3	1352.3	1386.0	1436.4	1484.9
12.5°	1257.1	1257.1	1262.7	1277.6	1296.3	1315.0	1350.5	1365.4	1410.2	1479.3	1537.2
15°	1255.2	1257.1	1258.9	1272.0	1292.6	1333.7	1386.0	1408.4	1462.5	1544.7	1612.0
17.5°	1285.1	1287.0	1279.5	1283.2	1307.5	1365.4	1434.5	1460.7	1529.8	1619.4	1688.5
20°	1376.6	1376.6	1354.2	1333.7	1350.5	1414.0	1492.4	1518.6	1595.2	1694.1	1763.3
22.5°	1563.4	1572.7	1520.4	1475.6	1449.5	1484.9	1555.9	1583.9	1669.9	1776.3	1845.4
25°	1789.4	1798.7	1727.8	1664.3	1615.7	1610.1	1656.8	1686.7	1757.7	1867.9	1925.8
27.5°	2007.9	1991.1	1925.8	1866.0	1804.4	1753.9	1789.4	1815.6	1897.7	1981.8	2017.3
30°	2179.8	2166.7	2103.2	2060.2	2002.3	1937.0	1916.4	1944.4	2011.7	2090.1	2108.8
32.5°	2370.3	2361.0	2297.5	2241.4	2192.9	2131.2	2086.4	2099.5	2136.8	2192.9	2204.1
35°	2613.1	2633.7	2566.4	2452.5	2398.3	2338.6	2306.8	2310.5	2338.6	2374.0	2355.4
37.5°	2869.0	2893.3	2897.0	2717.7	2644.9	2590.7	2557.1	2570.2	2603.8	2628.1	2570.2
40°	3343.5	3319.2	3222.1	3089.4	2977.4	2925.1	2878.4	2876.5	2900.8	2943.7	2839.1
42.5°	3972.9	3950.5	3754.4	3582.6	3405.1	3345.3	3253.8	3214.6	3225.8	3280.0	3134.3
45°	4576.3	4566.9	4410.0	4210.2	3997.2	3881.4	3672.2	3576.9	3567.6	3610.6	3436.9
47.5°	5112.3	5071.2	4957.3	4802.3	4779.8	4477.3	4092.5	3963.6	3918.8	3943.0	3748.8
50°	5685.8	5545.7	5388.8	5293.5	5456.0	5174.0	4516.5	4382.0	4271.8	4288.6	4086.9
52.5°	5990.2	5754.9	5652.1	5680.2	5898.7	5790.4	4977.8	4813.5	4636.0	4660.3	4423.1
55°	5728.7	5726.9	5771.7	5945.4	6249.9	6124.7	5416.8	5231.9	5037.6	5043.2	4809.7
57.5°	5370.1	5442.9	5674.6	6057.5	6685.1	6475.9	5848.3	5652.1	5474.7	5446.7	5248.7
60°	5043.2	5123.5	5459.7	6038.8	6836.4	6797.1	6259.2	6087.3	5943.5	5861.3	5710.0
62.5°	4546.4	4606.1	5082.4	5919.2	6709.3	7028.8	6675.7	6558.1	6449.7	6279.7	6206.9
65°	3961.7	3982.3	4484.7	5525.1	6550.6	7118.4	7090.4	7038.1	6933.5	6683.2	6698.1
67.5°	3328.5	3369.6	3810.4	4895.7	6203.2	7077.3	7411.7	7454.6	7331.3	6955.9	7011.9
70°	2654.2	2704.7	3039.0	4025.2	5612.9	6899.9	7708.7	7777.8	7540.5	7045.6	7069.8
72.5°	1641.8	1690.4	1914.6	2796.2	4449.2	6304.0	7800.2	7889.8	7546.1	6926.0	6692.5
75°	567.8	573.4	749.0	1341.1	2641.2	4759.3	7501.3	7712.4	7308.9	6490.8	5824.0
77.5°	259.6	269.0	332.5	552.9	1171.1	2568.3	6193.8	6722.4	6587.9	5810.9	4482.9
80°	179.3	183.1	229.7	330.6	676.2	904.0	3909.4	4598.7	4834.0	4499.7	2872.8
82.5°	134.5	138.2	177.4	224.1	487.5	438.9	1488.7	2136.8	2656.1	2607.5	1201.0
85°	128.9	127.0	138.2	149.4	325.0	261.5	481.9	661.2	1036.7	887.2	302.6
87.5°	56.0	61.6	142.0	84.1	170.0	121.4	209.2	244.7	315.7	274.6	108.3
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°	1492.4	1492.4	1492.4	1492.4	1492.4	1492.4	1492.4	1492.4	1492.4	1492.4	1492.4
2.5°	1481.2	1484.9	1496.2	1513.0	1522.3	1541.0	1554.1	1561.5	1567.1	1569.0	1569.0
5°	1468.1	1475.6	1499.9	1527.9	1554.1	1593.3	1628.8	1649.3	1664.3	1669.9	1671.7
7.5°	1471.9	1490.6	1526.0	1567.1	1600.8	1651.2	1694.1	1735.2	1768.9	1781.9	1781.9
10°	1507.4	1533.5	1582.1	1636.2	1679.2	1731.5	1776.3	1811.8	1851.0	1873.5	1877.2
12.5°	1561.5	1593.3	1656.8	1716.6	1765.1	1806.2	1847.3	1873.5	1892.1	1909.0	1912.7
15°	1638.1	1677.3	1740.8	1802.5	1845.4	1871.6	1882.8	1882.8	1880.9	1882.8	1886.5
17.5°	1714.7	1752.1	1815.6	1877.2	1897.7	1882.8	1869.7	1866.0	1864.1	1860.4	1862.3
20°	1789.4	1824.9	1879.1	1925.8	1909.0	1856.7	1839.8	1838.0	1832.4	1828.6	1824.9
22.5°	1864.1	1890.3	1935.1	1951.9	1884.7	1810.0	1789.4	1778.2	1770.7	1761.4	1752.1
25°	1950.0	1957.5	1991.1	1965.0	1824.9	1724.0	1694.1	1677.3	1669.9	1660.5	1653.1
27.5°	2030.4	2030.4	2036.0	1944.4	1737.1	1610.1	1565.3	1535.4	1533.5	1531.6	1529.8
30°	2103.2	2093.9	2075.2	1882.8	1623.2	1470.0	1402.8	1372.9	1384.1	1393.4	1395.3
32.5°	2189.1	2170.5	2118.2	1798.7	1486.8	1313.1	1230.9	1217.8	1230.9	1242.1	1234.7
35°	2323.6	2290.0	2163.0	1701.6	1356.1	1169.3	1090.8	1072.2	1068.4	1066.5	1051.6
37.5°	2516.0	2458.1	2198.5	1597.0	1227.2	1042.3	984.4	945.1	909.6	872.3	866.7
40°	2751.4	2652.4	2222.8	1477.5	1090.8	935.8	874.2	823.7	764.0	698.6	691.1
42.5°	3009.1	2861.6	2234.0	1344.9	971.3	848.0	771.4	707.9	640.7	590.2	580.9
45°	3287.4	3087.6	2224.6	1217.8	874.2	773.3	687.4	618.3	564.1	528.6	521.1
47.5°	3558.3	3347.2	2198.5	1117.0	799.4	709.8	622.0	558.5	517.4	478.2	468.8
50°	3905.7	3595.6	2166.7	1038.5	717.3	646.3	580.9	513.7	467.0	448.3	444.6
52.5°	4290.5	3844.1	2129.4	939.5	636.9	595.8	554.8	495.0	480.0	444.6	438.9
55°	4707.0	4139.2	2121.9	814.4	566.0	560.4	528.6	511.8	515.5	444.6	435.2
57.5°	5145.9	4454.8	2138.7	689.2	508.1	528.6	539.8	526.7	521.1	453.9	435.2
60°	5603.6	4759.3	2088.3	573.4	463.2	502.5	552.9	519.3	478.2	450.2	437.1
62.5°	6048.1	5015.2	1869.7	491.2	429.6	495.0	545.4	491.2	444.6	444.6	438.9
65°	6371.3	5129.1	1462.5	431.5	407.2	485.6	532.3	472.6	435.2	448.3	440.8
67.5°	6408.6	5011.5	982.5	384.8	388.5	468.8	502.5	455.8	425.9	459.5	448.3
70°	6178.9	4705.1	601.5	349.3	364.2	438.9	476.3	438.9	412.8	450.2	433.3
72.5°	5583.0	4133.6	424.0	319.4	338.1	410.9	452.0	424.0	394.1	407.2	390.4
75°	4580.0	3203.4	336.2	291.4	311.9	384.8	431.5	401.6	371.7	366.1	354.9
77.5°	3244.5	2052.8	270.8	269.0	283.9	353.0	403.5	375.4	345.6	334.3	326.9
80°	1866.0	1006.8	233.5	242.8	257.8	321.3	369.8	345.6	317.5	300.7	289.5
82.5°	713.5	351.2	205.5	211.1	227.9	287.7	336.2	315.7	287.7	302.6	254.0
85°	231.6	192.4	168.1	173.7	190.5	239.1	297.0	280.2	248.4	220.4	203.6
87.5°	102.7	104.6	89.7	99.0	119.5	158.8	216.7	205.5	181.2	151.3	145.7
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)