

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: P400500

Luminaire Tested: **ARCH-L-PA3-90-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400500
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-PA3-90-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14106 lumens
Efficiency: N/A
Efficacy: 151.7 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

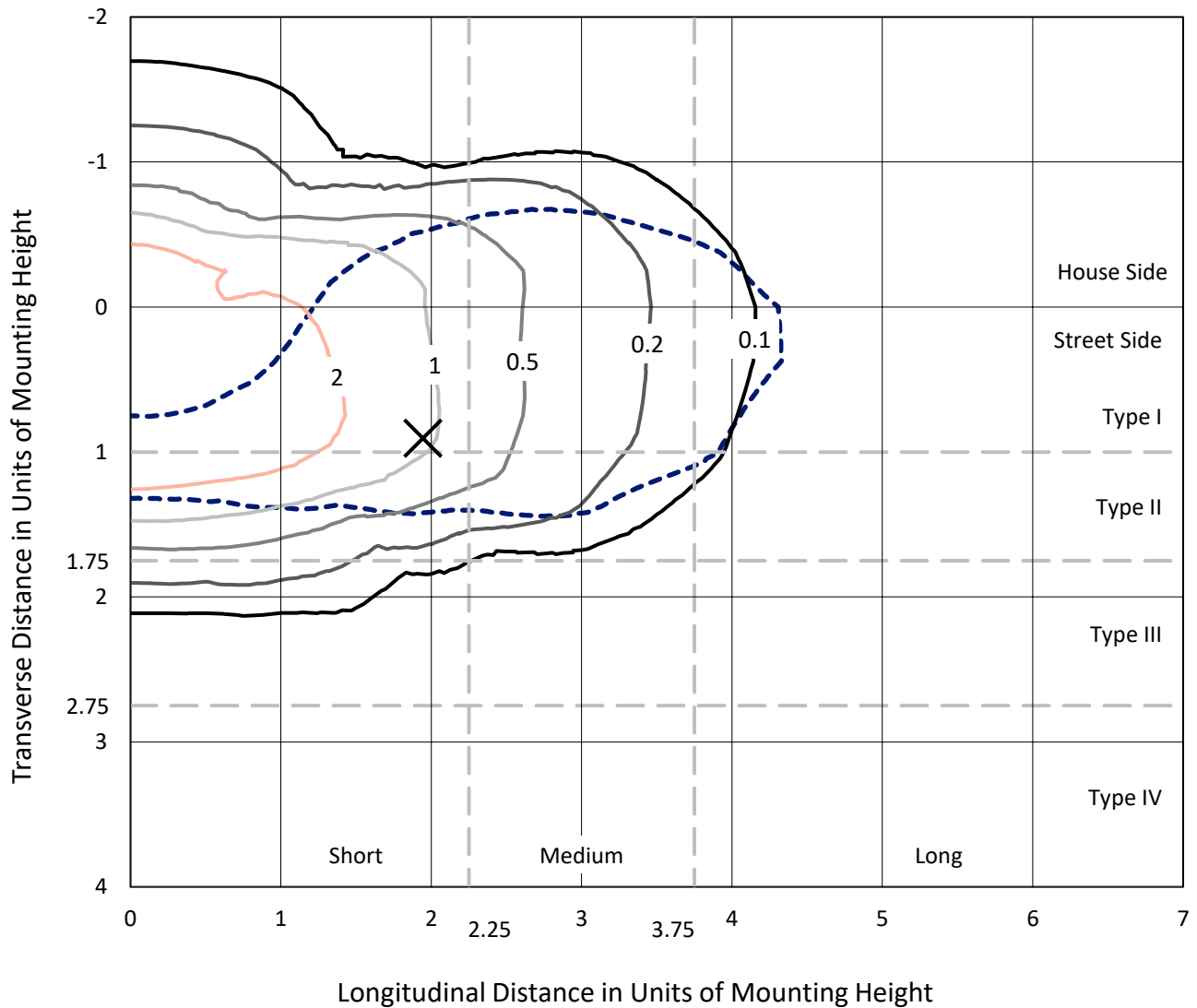
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

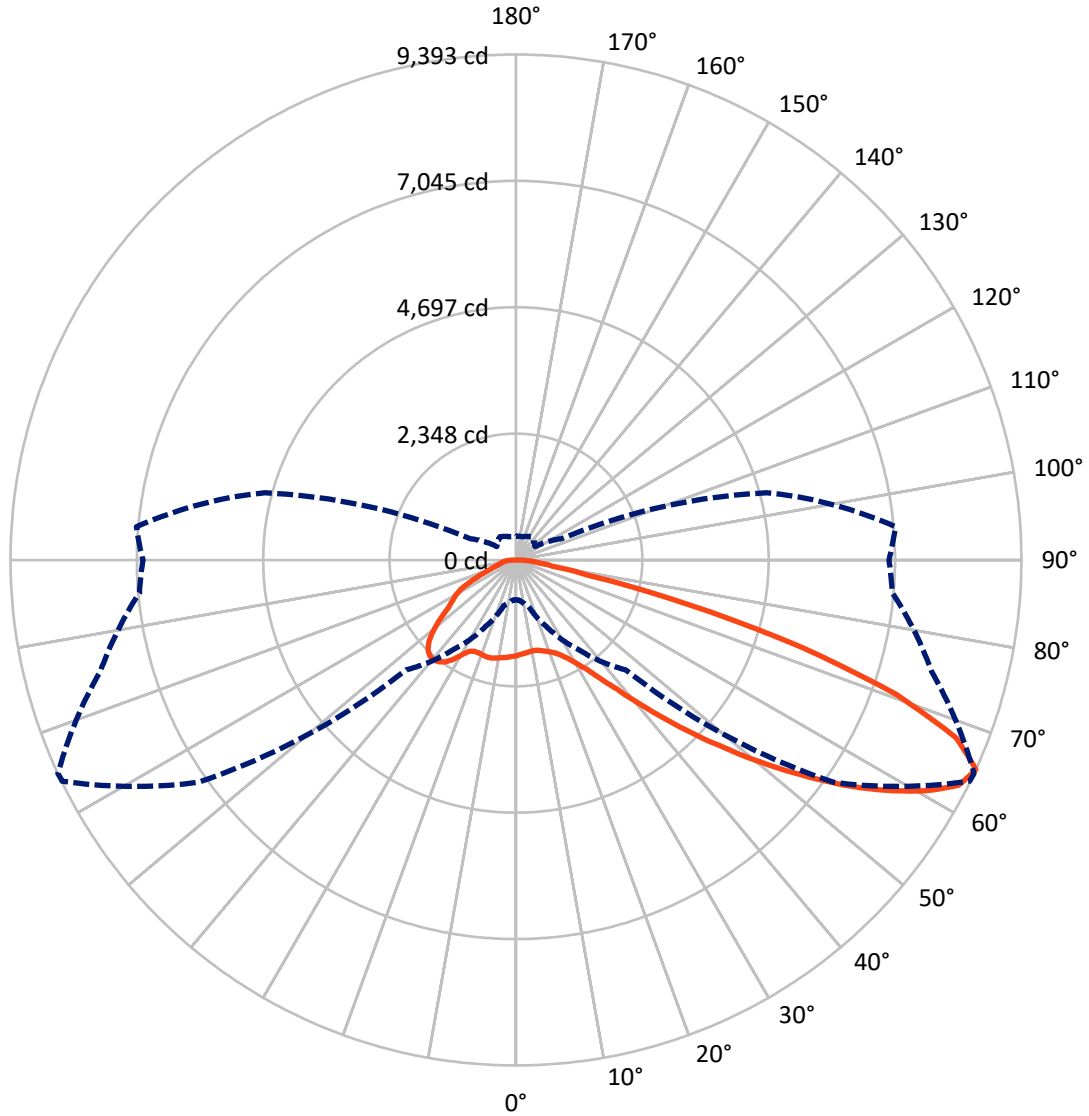
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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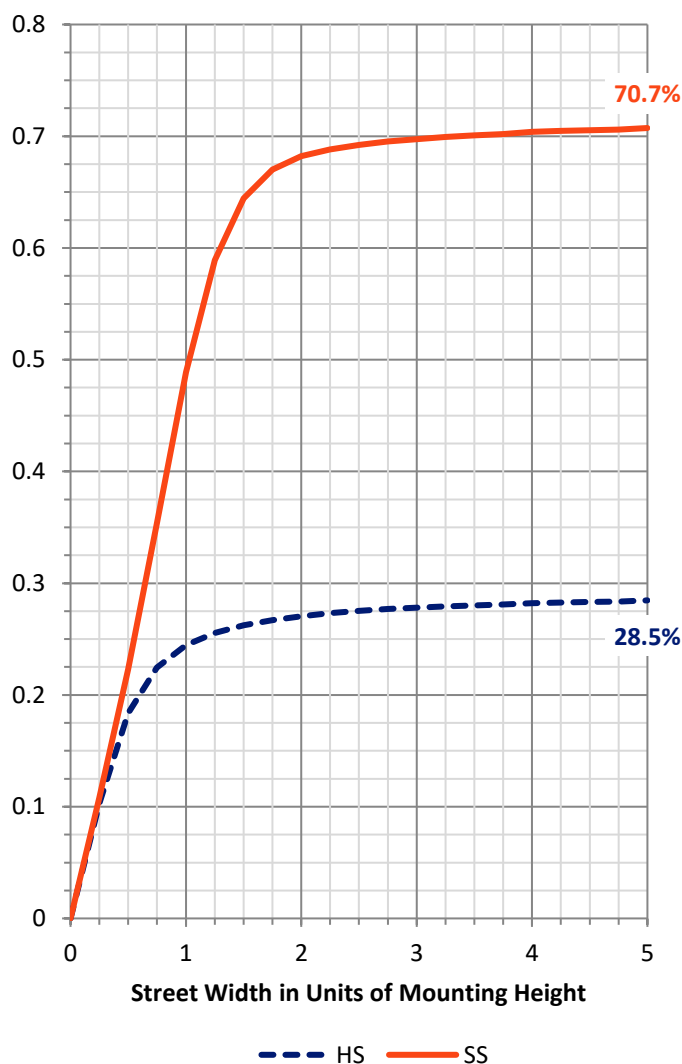
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4078.3	0.0	4078.3
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	10027.7	0.0	10027.7
	% Fixture	71.1	0.0	71.1
Total	Lumens	14106.0	0.0	14106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	1.2
10°-20°	507.0	3.6
20°-30°	900.6	6.4
30°-40°	1523.5	10.8
40°-50°	2652.2	18.8
50°-60°	3427.5	24.3
60°-70°	2999.2	21.3
70°-80°	1631.4	11.6
80°-90°	294.8	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°	14106.0	100.0
0°-180°	14106.0	100.0

Coefficient of Utilization



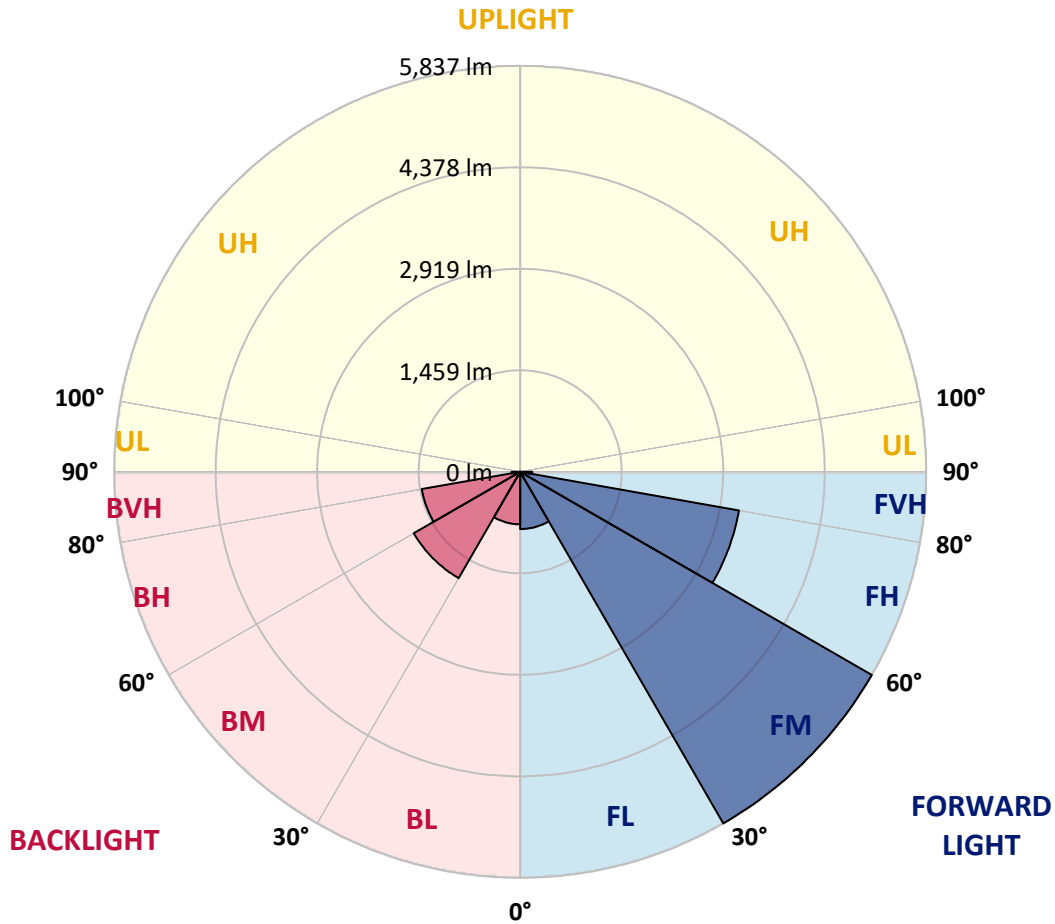
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.0	5.8			
FM (30°-60°)	5837.4	41.4			
FH (60°-80°)	3193.8	22.6			G2/5000
FVH (80°-90°)	173.5	1.2			G2/225
BL (0°-30°)	754.3	5.3	B2/1000		
BM (30°-60°)	1765.8	12.5	B2/2500		
BH (60°-80°)	1436.8	10.2	B3/2500		G3/2500
BVH (80°-90°)	121.3	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°	1782.4	1782.4	1782.4	1782.4	1782.4	1782.4	1782.4	1782.4	1782.4	1782.4	1782.4
2.5°	1750.9	1749.0	1745.3	1749.0	1750.9	1754.6	1752.7	1756.4	1754.6	1760.1	1769.4
5°	1706.3	1702.6	1700.7	1710.0	1715.6	1724.9	1728.6	1741.6	1739.7	1749.0	1763.9
7.5°	1656.2	1656.2	1654.3	1665.5	1672.9	1689.6	1702.6	1724.9	1726.7	1743.4	1760.1
10°	1617.2	1619.0	1617.2	1626.5	1637.6	1658.0	1680.3	1711.9	1713.7	1737.9	1754.6
12.5°	1602.3	1602.3	1602.3	1615.3	1630.2	1658.0	1684.0	1717.4	1721.2	1747.2	1762.0
15°	1622.8	1624.6	1620.9	1633.9	1650.6	1684.0	1708.2	1743.4	1747.2	1771.3	1780.6
17.5°	1695.2	1702.6	1693.3	1700.7	1697.0	1723.0	1745.3	1780.6	1782.4	1802.9	1806.6
20°	1838.1	1845.6	1830.7	1821.4	1788.0	1786.1	1795.4	1823.3	1823.3	1836.3	1827.0
22.5°	2059.1	2066.5	2040.5	2005.2	1925.4	1886.4	1866.0	1879.0	1877.1	1882.7	1858.6
25°	2352.4	2350.6	2319.0	2254.0	2125.9	2031.2	1981.1	1960.7	1960.7	1949.5	1919.8
27.5°	2716.3	2688.5	2632.8	2554.8	2376.6	2244.7	2137.1	2085.1	2075.8	2042.4	1986.7
30°	3104.4	3084.0	3004.1	2890.9	2684.8	2515.8	2337.6	2233.6	2228.0	2155.6	2072.1
32.5°	3561.1	3527.7	3438.6	3303.1	3056.1	2818.5	2595.7	2437.8	2428.6	2313.4	2198.3
35°	4147.9	4120.0	3947.3	3811.8	3494.3	3182.4	2918.7	2708.9	2701.5	2560.4	2413.7
37.5°	4851.5	4779.1	4612.0	4357.7	4023.5	3654.0	3319.8	3056.1	3046.8	2890.9	2705.2
40°	5479.1	5414.1	5265.6	5031.6	4673.3	4263.0	3809.9	3490.6	3481.3	3291.9	3058.0
42.5°	5943.3	5898.7	5802.2	5666.6	5410.4	5161.6	4435.6	4016.0	3999.3	3754.2	3462.7
45°	6212.5	6177.2	6121.5	6155.0	6151.2	6104.8	5182.0	4641.7	4587.9	4270.4	3913.9
47.5°	6147.5	6116.0	6138.2	6398.2	6756.5	7025.7	6051.0	5282.3	5209.9	4795.8	4394.8
50°	5677.8	5690.8	5807.7	6305.3	7109.3	7707.1	7014.6	6012.0	5915.4	5325.0	4851.5
52.5°	4821.8	4853.4	5137.5	5833.7	7070.3	8149.0	7885.4	6765.8	6637.7	5841.2	5267.4
55°	3830.4	3910.2	4277.8	5009.4	6561.6	8180.6	8542.7	7523.3	7382.2	6325.8	5629.5
57.5°	2833.3	2952.1	3377.3	4049.5	5586.8	7681.2	8871.3	8247.4	8076.6	6806.7	6012.0
60°	1797.3	1869.7	2359.9	3152.7	4276.0	6459.4	8828.6	8863.9	8715.3	7285.7	6411.2
62.5°	1147.4	1182.7	1429.7	2248.5	2989.3	4782.9	8362.6	9329.9	9229.6	7722.0	6789.9
65°	737.1	752.0	878.2	1383.2	2034.9	2887.2	7202.1	9380.0	9393.0	7994.9	7023.9
67.5°	599.7	607.1	653.6	854.1	1438.9	1594.9	5016.8	8667.1	8824.9	7924.4	6944.0
70°	545.9	555.2	603.4	681.4	1114.0	1101.0	2428.6	7252.3	7510.3	7517.8	6589.4
72.5°	460.5	473.5	538.4	644.3	861.5	868.9	1028.6	5165.3	5546.0	6719.4	6056.5
75°	384.3	391.8	447.5	568.1	729.7	694.4	722.3	2738.6	3288.2	5388.1	5490.3
77.5°	311.9	319.4	360.2	453.0	648.0	540.3	568.1	1134.4	1401.8	3657.7	4487.6
80°	222.8	230.2	276.6	352.8	490.2	486.5	421.5	625.7	679.6	1977.4	2915.0
82.5°	159.7	165.2	209.8	252.5	339.8	488.3	317.5	425.2	445.6	876.4	1175.3
85°	107.7	107.7	144.8	167.1	219.1	308.2	256.2	287.8	300.8	415.9	317.5
87.5°	46.4	46.4	78.0	85.4	115.1	143.0	191.2	144.8	148.5	224.7	130.0
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°	1782.4	1782.4	1782.4	1782.4	1782.4	1782.4	1782.4	1782.4	1782.4	1782.4	1782.4
2.5°	1775.0	1776.9	1780.6	1791.7	1799.1	1810.3	1815.8	1823.3	1823.3	1819.6	1821.4
5°	1771.3	1776.9	1789.9	1810.3	1823.3	1843.7	1858.6	1869.7	1873.4	1869.7	1871.6
7.5°	1769.4	1778.7	1801.0	1830.7	1849.3	1875.3	1895.7	1908.7	1918.0	1914.3	1916.1
10°	1763.9	1778.7	1806.6	1843.7	1871.6	1897.5	1916.1	1921.7	1927.3	1923.5	1921.7
12.5°	1771.3	1788.0	1817.7	1862.3	1893.8	1914.3	1919.8	1910.5	1897.5	1890.1	1888.3
15°	1786.1	1802.9	1832.6	1879.0	1906.8	1914.3	1901.3	1871.6	1841.8	1825.1	1823.3
17.5°	1806.6	1817.7	1841.8	1882.7	1905.0	1895.7	1869.7	1834.4	1812.1	1799.1	1801.0
20°	1819.6	1819.6	1838.1	1869.7	1888.3	1880.8	1849.3	1810.3	1775.0	1758.3	1752.7
22.5°	1838.1	1828.8	1830.7	1858.6	1884.5	1873.4	1806.6	1737.9	1687.7	1669.2	1667.3
25°	1888.3	1862.3	1845.6	1862.3	1923.5	1832.6	1698.9	1619.0	1572.6	1555.9	1557.8
27.5°	1949.5	1914.3	1879.0	1906.8	1955.1	1739.7	1561.5	1470.5	1442.7	1429.7	1435.2
30°	2010.8	1964.4	1918.0	2018.2	1932.8	1594.9	1385.1	1296.0	1271.8	1262.6	1270.0
32.5°	2124.1	2047.9	1992.2	2166.8	1864.1	1429.7	1193.9	1112.2	1089.9	1078.7	1075.0
35°	2313.4	2216.9	2161.2	2296.7	1767.6	1245.8	1019.3	961.8	937.6	913.5	909.8
37.5°	2586.4	2469.4	2419.3	2371.0	1632.0	1063.9	885.6	846.7	811.4	774.2	772.4
40°	2913.2	2760.9	2723.8	2404.4	1444.5	893.1	792.8	755.7	711.1	675.8	677.7
42.5°	3290.1	3095.1	3015.3	2395.1	1212.4	802.1	726.0	685.1	646.1	614.6	612.7
45°	3693.0	3472.0	3288.2	2330.2	982.2	739.0	685.1	636.8	597.9	562.6	558.9
47.5°	4138.6	3891.6	3540.7	2203.9	811.4	694.4	661.0	592.3	557.0	534.7	534.7
50°	4587.9	4292.7	3772.8	2012.7	711.1	661.0	625.7	568.1	540.3	521.7	521.7
52.5°	4972.2	4710.4	3964.0	1784.3	648.0	633.1	601.6	557.0	527.3	510.6	508.7
55°	5345.4	5098.5	4134.9	1557.8	596.0	596.0	596.0	547.7	514.3	499.5	497.6
57.5°	5716.8	5507.0	4313.1	1409.2	549.6	564.4	584.9	536.6	503.2	490.2	488.3
60°	6136.4	5997.1	4519.2	1305.3	508.7	531.0	570.0	523.6	484.6	473.5	471.6
62.5°	6582.0	6582.0	4706.7	1158.6	471.6	503.2	547.7	506.9	467.9	458.6	456.7
65°	6931.0	7081.4	4827.4	939.5	434.5	475.3	521.7	484.6	445.6	443.8	440.0
67.5°	6971.9	7207.7	4751.3	709.3	401.0	445.6	495.7	460.5	423.3	423.3	417.8
70°	6678.5	6918.1	4513.6	531.0	376.9	415.9	462.3	430.8	395.5	399.2	389.9
72.5°	6188.4	6247.8	3923.2	419.6	349.1	384.3	421.5	397.3	365.8	365.8	352.8
75°	5542.2	5211.7	2850.0	350.9	315.6	347.2	380.6	360.2	332.3	323.1	315.6
77.5°	4411.5	3776.5	1656.2	302.6	287.8	311.9	334.2	319.4	295.2	274.8	274.8
80°	2688.5	2213.2	731.5	261.8	254.4	272.9	287.8	271.1	250.7	230.2	224.7
82.5°	1023.0	854.1	354.6	224.7	222.8	233.9	245.1	228.4	213.5	204.2	176.4
85°	280.4	258.1	243.2	187.5	183.8	182.0	195.0	187.5	167.1	137.4	122.5
87.5°	105.8	120.7	131.8	115.1	122.5	113.3	130.0	118.8	105.8	68.7	61.3
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)