

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: P399123

Luminaire Tested: **ARCH-L-PA3-100-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399123
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-PA3-100-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13947 lumens
Efficiency: N/A
Efficacy: 136.7 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

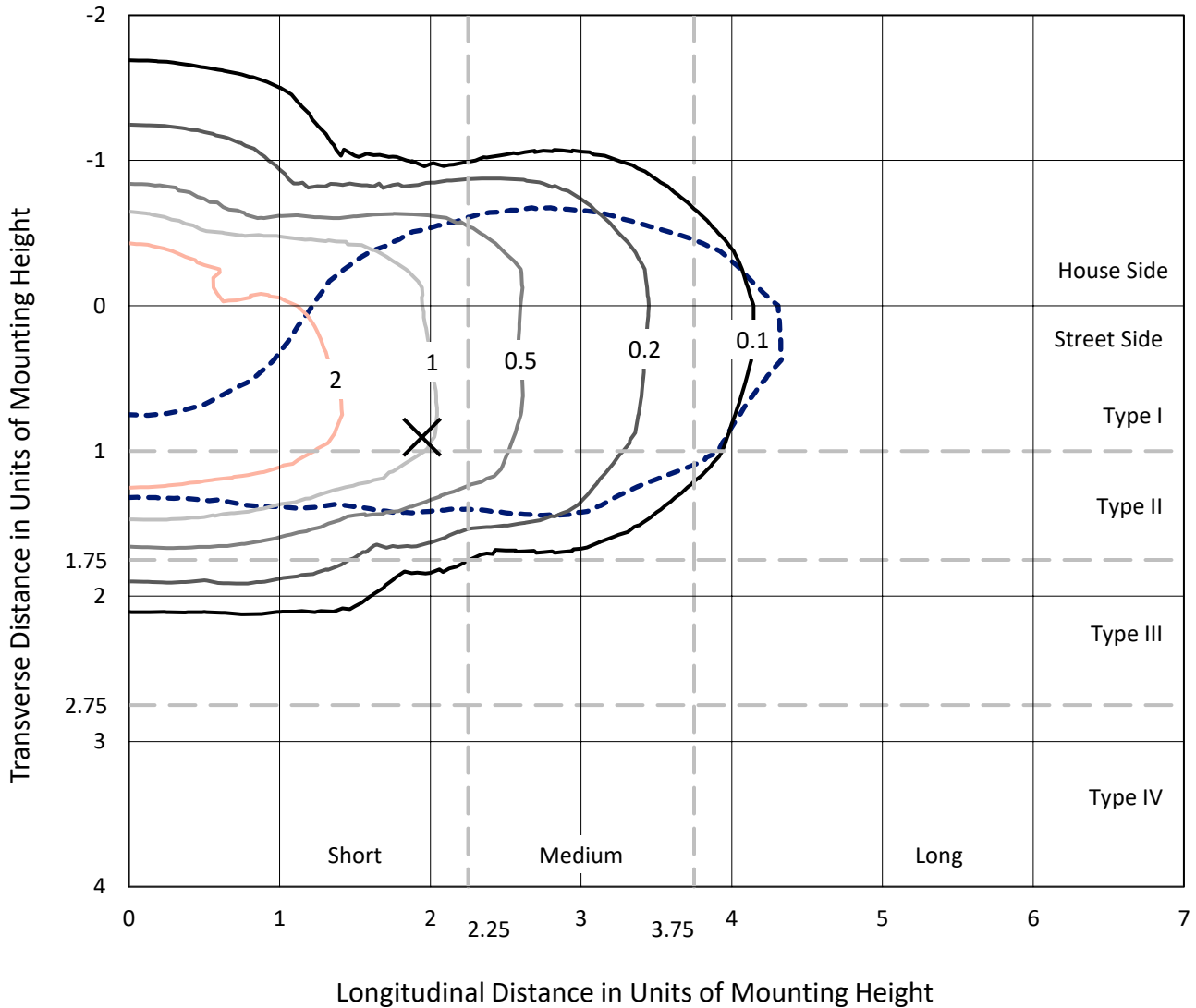
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

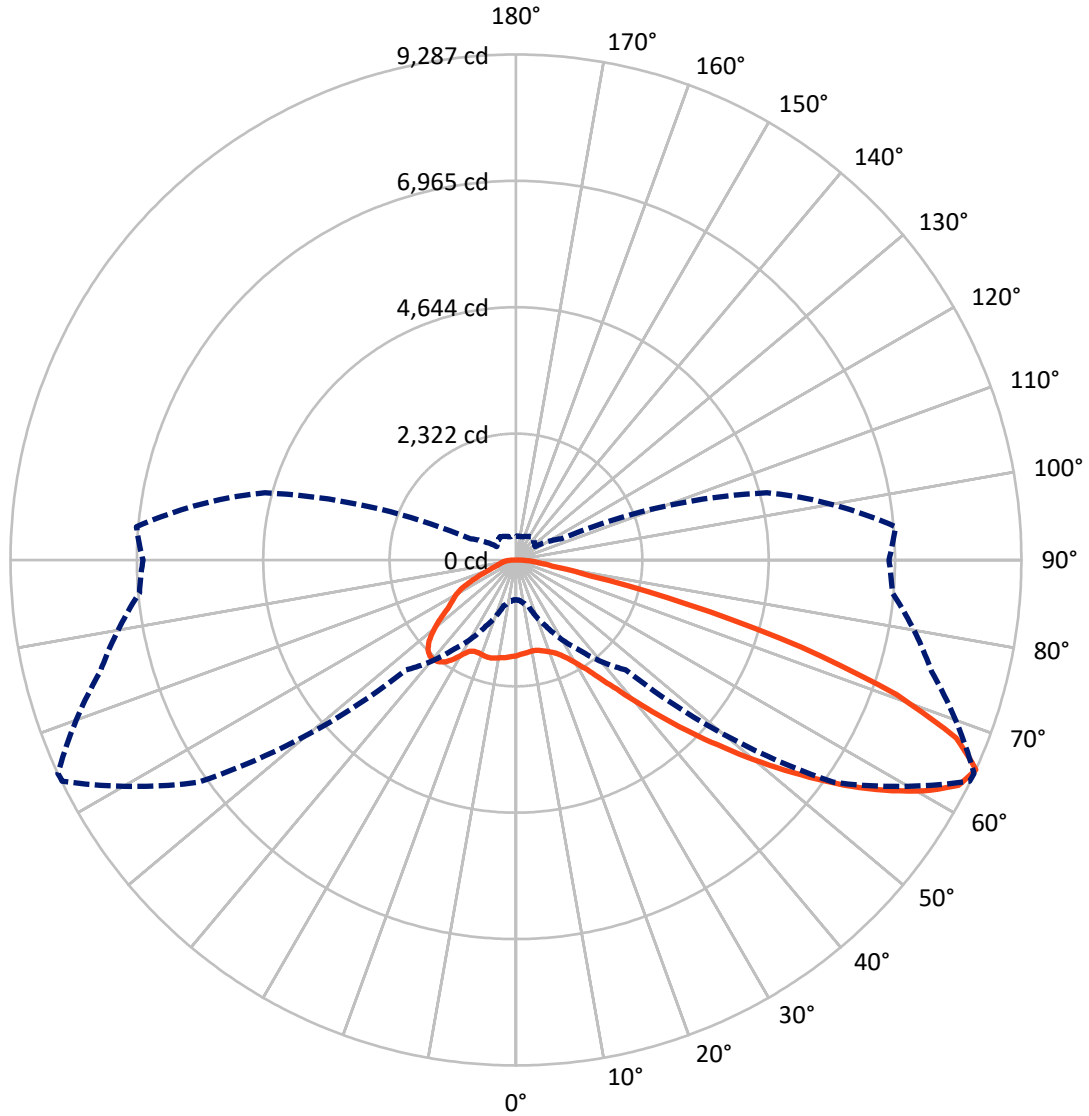
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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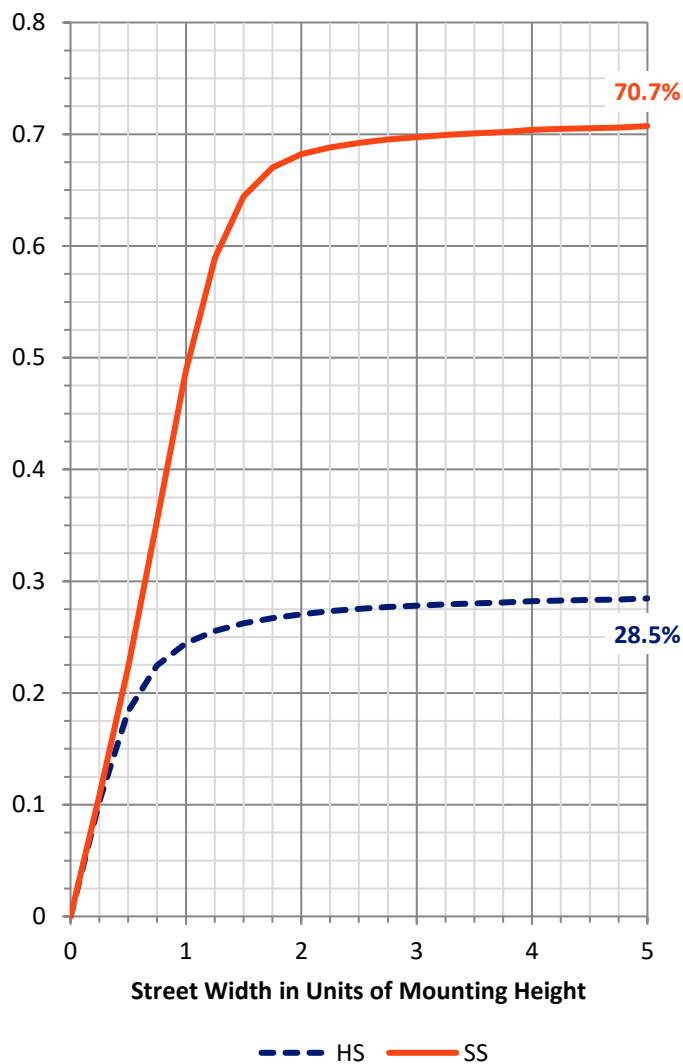
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4032.3	0.0	4032.3
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	9914.7	0.0	9914.7
	% Fixture	71.1	0.0	71.1
Total	Lumens	13947.0	0.0	13947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	1.2
10°-20°	501.3	3.6
20°-30°	890.4	6.4
30°-40°	1506.4	10.8
40°-50°	2622.3	18.8
50°-60°	3388.9	24.3
60°-70°	2965.4	21.3
70°-80°	1613.0	11.6
80°-90°	291.4	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°	13947.0	100.0
0°-180°	13947.0	100.0

Coefficient of Utilization

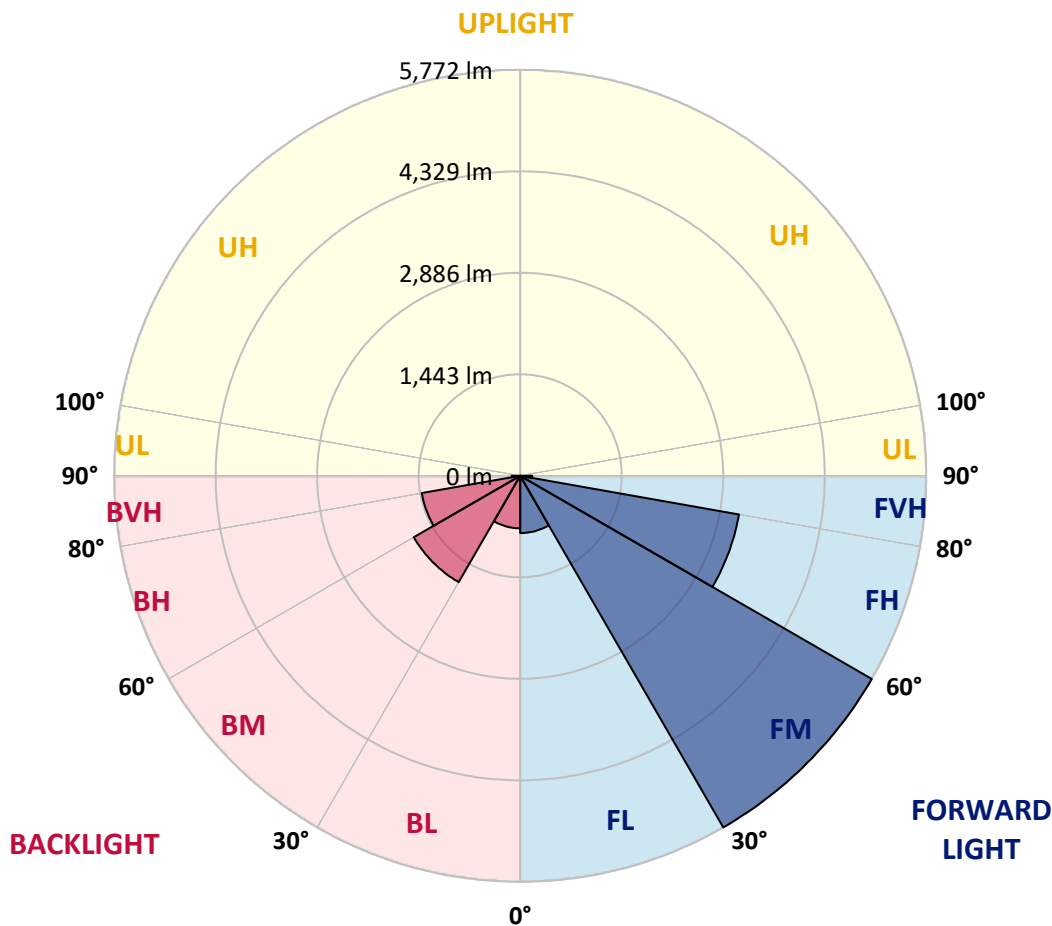


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.8	5.8			
FM (30°-60°)	5771.7	41.4			
FH (60°-80°)	3157.8	22.6			G2/5000
FVH (80°-90°)	171.5	1.2			G2/225
BL (0°-30°)	745.8	5.3	B2/1000		
BM (30°-60°)	1745.9	12.5	B2/2500		
BH (60°-80°)	1420.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	119.9	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°	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3
2.5°	1731.1	1729.3	1725.6	1729.3	1731.1	1734.8	1733.0	1736.6	1734.8	1740.3	1749.5
5°	1687.1	1683.4	1681.6	1690.7	1696.3	1705.4	1709.1	1722.0	1720.1	1729.3	1744.0
7.5°	1637.5	1637.5	1635.7	1646.7	1654.0	1670.5	1683.4	1705.4	1707.3	1723.8	1740.3
10°	1599.0	1600.8	1599.0	1608.1	1619.1	1639.3	1661.4	1692.6	1694.4	1718.3	1734.8
12.5°	1584.3	1584.3	1584.3	1597.1	1611.8	1639.3	1665.0	1698.1	1701.8	1727.5	1742.1
15°	1604.5	1606.3	1602.6	1615.5	1632.0	1665.0	1688.9	1723.8	1727.5	1751.3	1760.5
17.5°	1676.1	1683.4	1674.2	1681.6	1677.9	1703.6	1725.6	1760.5	1762.3	1782.5	1786.2
20°	1817.4	1824.8	1810.1	1800.9	1767.8	1766.0	1775.2	1802.7	1802.7	1815.6	1806.4
22.5°	2035.9	2043.2	2017.5	1982.6	1903.7	1865.1	1844.9	1857.8	1856.0	1861.5	1837.6
25°	2325.9	2324.1	2292.9	2228.6	2102.0	2008.3	1958.8	1938.6	1938.6	1927.6	1898.2
27.5°	2685.7	2658.2	2603.1	2526.0	2349.8	2219.4	2113.0	2061.6	2052.4	2019.3	1964.3
30°	3069.4	3049.2	2970.3	2858.3	2654.5	2487.5	2311.2	2208.4	2202.9	2131.3	2048.7
32.5°	3521.0	3488.0	3399.8	3265.8	3021.7	2786.7	2566.4	2410.4	2401.2	2287.4	2173.5
35°	4101.1	4073.6	3902.8	3768.8	3454.9	3146.5	2885.8	2678.4	2671.0	2531.5	2386.5
37.5°	4796.9	4725.3	4560.0	4308.5	3978.1	3612.8	3282.4	3021.7	3012.5	2858.3	2674.7
40°	5417.4	5353.1	5206.2	4974.9	4620.6	4214.9	3767.0	3451.2	3442.1	3254.8	3023.5
42.5°	5876.3	5832.2	5736.8	5602.8	5349.4	5103.4	4385.7	3970.8	3954.2	3711.9	3423.7
45°	6142.5	6107.6	6052.5	6085.6	6081.9	6036.0	5123.6	4589.4	4536.2	4222.3	3869.8
47.5°	6078.2	6047.0	6069.1	6326.1	6680.4	6946.5	5982.8	5222.8	5151.2	4741.8	4345.3
50°	5613.8	5626.6	5742.3	6234.3	7029.2	7620.3	6935.5	5944.2	5848.8	5265.0	4796.9
52.5°	4767.5	4798.7	5079.6	5768.0	6990.6	8057.2	7796.5	6689.5	6562.9	5775.3	5208.1
55°	3787.2	3866.1	4229.6	4952.9	6487.6	8088.4	8446.4	7438.5	7299.0	6254.5	5566.1
57.5°	2801.4	2918.9	3339.3	4003.8	5523.8	7594.6	8771.3	8154.5	7985.6	6729.9	5944.2
60°	1777.0	1848.6	2333.3	3117.1	4227.8	6386.6	8729.1	8764.0	8617.1	7203.6	6338.9
62.5°	1134.5	1169.4	1413.5	2223.1	2955.6	4728.9	8268.3	9224.7	9125.6	7635.0	6713.4
65°	728.8	743.5	868.3	1367.6	2012.0	2854.6	7120.9	9274.3	9287.2	7904.8	6944.7
67.5°	593.0	600.3	646.2	844.5	1422.7	1576.9	4960.2	8569.4	8725.4	7835.1	6865.8
70°	539.7	548.9	596.6	673.7	1101.5	1088.6	2401.2	7170.5	7425.7	7433.0	6515.1
72.5°	455.3	468.1	532.4	637.0	851.8	859.1	1017.0	5107.1	5483.4	6643.6	5988.3
75°	380.0	387.3	442.4	561.7	721.5	686.6	714.1	2707.8	3251.1	5327.4	5428.4
77.5°	308.4	315.8	356.1	447.9	640.7	534.2	561.7	1121.7	1386.0	3616.5	4437.1
80°	220.3	227.6	273.5	348.8	484.6	481.0	416.7	618.7	671.9	1955.1	2882.2
82.5°	157.9	163.4	207.4	249.7	335.9	482.8	313.9	420.4	440.6	866.5	1162.0
85°	106.5	106.5	143.2	165.2	216.6	304.7	253.3	284.5	297.4	411.2	313.9
87.5°	45.9	45.9	77.1	84.4	113.8	141.4	189.1	143.2	146.9	222.1	128.5
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°	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3	1762.3
2.5°	1755.0	1756.8	1760.5	1771.5	1778.9	1789.9	1795.4	1802.7	1802.7	1799.1	1800.9
5°	1751.3	1756.8	1769.7	1789.9	1802.7	1822.9	1837.6	1848.6	1852.3	1848.6	1850.5
7.5°	1749.5	1758.7	1780.7	1810.1	1828.4	1854.1	1874.3	1887.2	1896.3	1892.7	1894.5
10°	1744.0	1758.7	1786.2	1822.9	1850.5	1876.2	1894.5	1900.0	1905.5	1901.9	1900.0
12.5°	1751.3	1767.8	1797.2	1841.3	1872.5	1892.7	1898.2	1889.0	1876.2	1868.8	1867.0
15°	1766.0	1782.5	1811.9	1857.8	1885.3	1892.7	1879.8	1850.5	1821.1	1804.6	1802.7
17.5°	1786.2	1797.2	1821.1	1861.5	1883.5	1874.3	1848.6	1813.7	1791.7	1778.9	1780.7
20°	1799.1	1799.1	1817.4	1848.6	1867.0	1859.6	1828.4	1789.9	1755.0	1738.5	1733.0
22.5°	1817.4	1808.2	1810.1	1837.6	1863.3	1852.3	1786.2	1718.3	1668.7	1650.4	1648.5
25°	1867.0	1841.3	1824.8	1841.3	1901.9	1811.9	1679.7	1600.8	1554.9	1538.4	1540.2
27.5°	1927.6	1892.7	1857.8	1885.3	1933.1	1720.1	1543.9	1453.9	1426.4	1413.5	1419.0
30°	1988.1	1942.2	1896.3	1995.5	1911.0	1576.9	1369.5	1281.4	1257.5	1248.3	1255.7
32.5°	2100.1	2024.9	1969.8	2142.3	1843.1	1413.5	1180.4	1099.6	1077.6	1066.6	1062.9
35°	2287.4	2191.9	2136.8	2270.8	1747.7	1231.8	1007.8	950.9	927.1	903.2	899.5
37.5°	2557.2	2441.6	2392.0	2344.3	1613.6	1051.9	875.7	837.1	802.2	765.5	763.7
40°	2880.3	2729.8	2693.1	2377.3	1428.2	883.0	783.9	747.2	703.1	668.2	670.1
42.5°	3253.0	3060.2	2981.3	2368.1	1198.8	793.1	717.8	677.4	638.8	607.6	605.8
45°	3651.3	3432.9	3251.1	2303.9	971.1	730.6	677.4	629.7	591.1	556.2	552.6
47.5°	4091.9	3847.8	3500.8	2179.1	802.2	686.6	653.5	585.6	550.7	528.7	528.7
50°	4536.2	4244.3	3730.3	1990.0	703.1	653.5	618.7	561.7	534.2	515.9	515.9
52.5°	4916.2	4657.3	3919.4	1764.2	640.7	626.0	594.8	550.7	521.4	504.8	503.0
55°	5285.2	5041.0	4088.3	1540.2	589.3	589.3	589.3	541.6	508.5	493.8	492.0
57.5°	5652.3	5444.9	4264.5	1393.3	543.4	558.1	578.3	530.5	497.5	484.6	482.8
60°	6067.2	5929.5	4468.3	1290.5	503.0	525.0	563.6	517.7	479.1	468.1	466.3
62.5°	6507.8	6507.8	4653.7	1145.5	466.3	497.5	541.6	501.2	462.6	453.4	451.6
65°	6852.9	7001.6	4773.0	928.9	429.6	470.0	515.9	479.1	440.6	438.7	435.1
67.5°	6893.3	7126.5	4697.7	701.3	396.5	440.6	490.2	455.3	418.6	418.6	413.0
70°	6603.3	6840.1	4462.8	525.0	372.7	411.2	457.1	425.9	391.0	394.7	385.5
72.5°	6118.6	6177.4	3879.0	414.9	345.1	380.0	416.7	392.9	361.6	361.6	348.8
75°	5479.8	5153.0	2817.9	347.0	312.1	343.3	376.3	356.1	328.6	319.4	312.1
77.5°	4361.8	3734.0	1637.5	299.2	284.5	308.4	330.4	315.8	291.9	271.7	271.7
80°	2658.2	2188.2	723.3	258.8	251.5	269.9	284.5	268.0	247.8	227.6	222.1
82.5°	1011.5	844.5	350.6	222.1	220.3	231.3	242.3	225.8	211.1	201.9	174.4
85°	277.2	255.2	240.5	185.4	181.7	179.9	192.8	185.4	165.2	135.8	121.2
87.5°	104.6	119.3	130.3	113.8	121.2	112.0	128.5	117.5	104.6	67.9	60.6
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)