

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: P399177

Luminaire Tested: **ARCH-L-PA3-100-830-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399177
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-PA3-100-830-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 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: 13253 lumens
Efficiency: N/A
Efficacy: 129.9 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

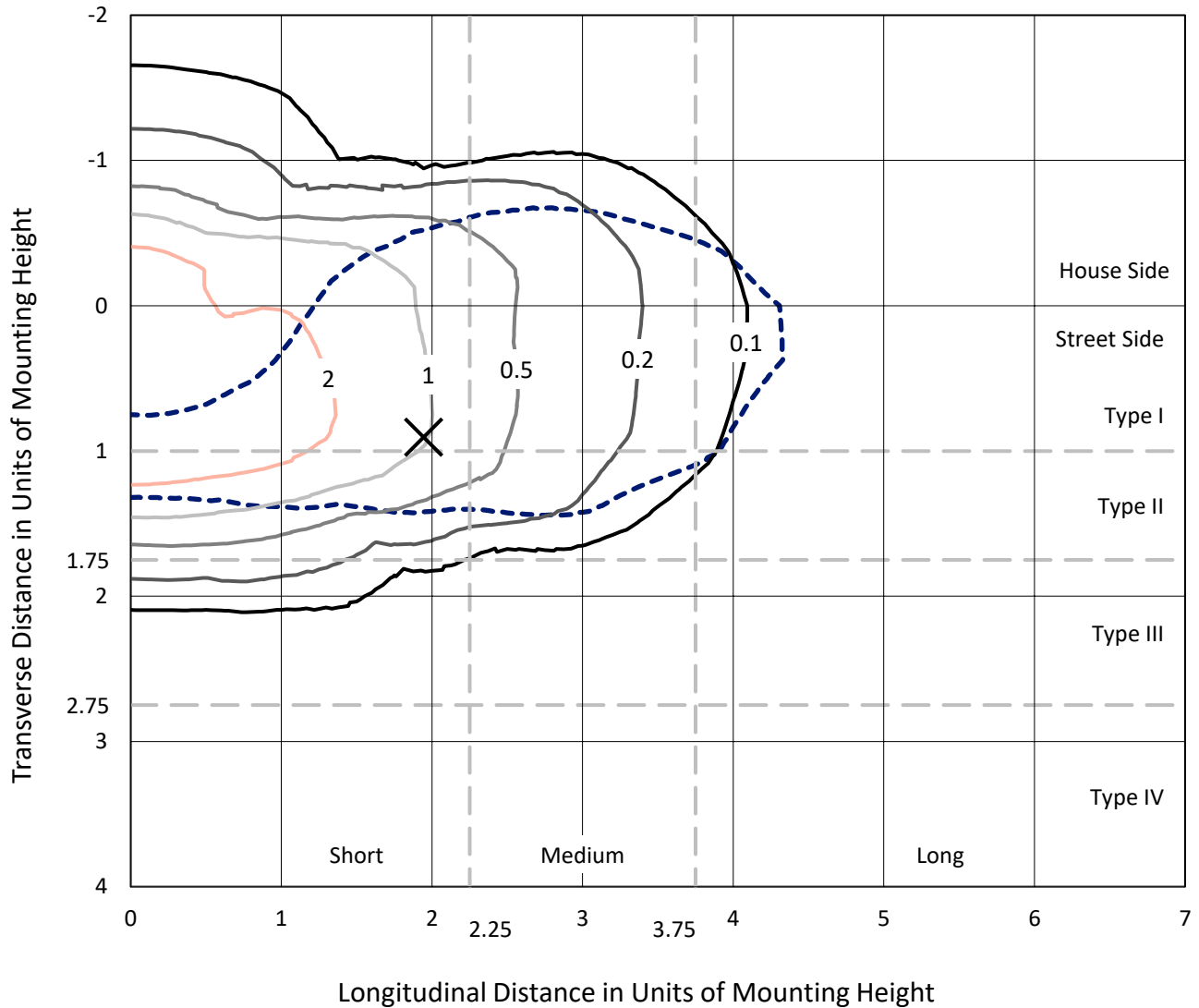
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

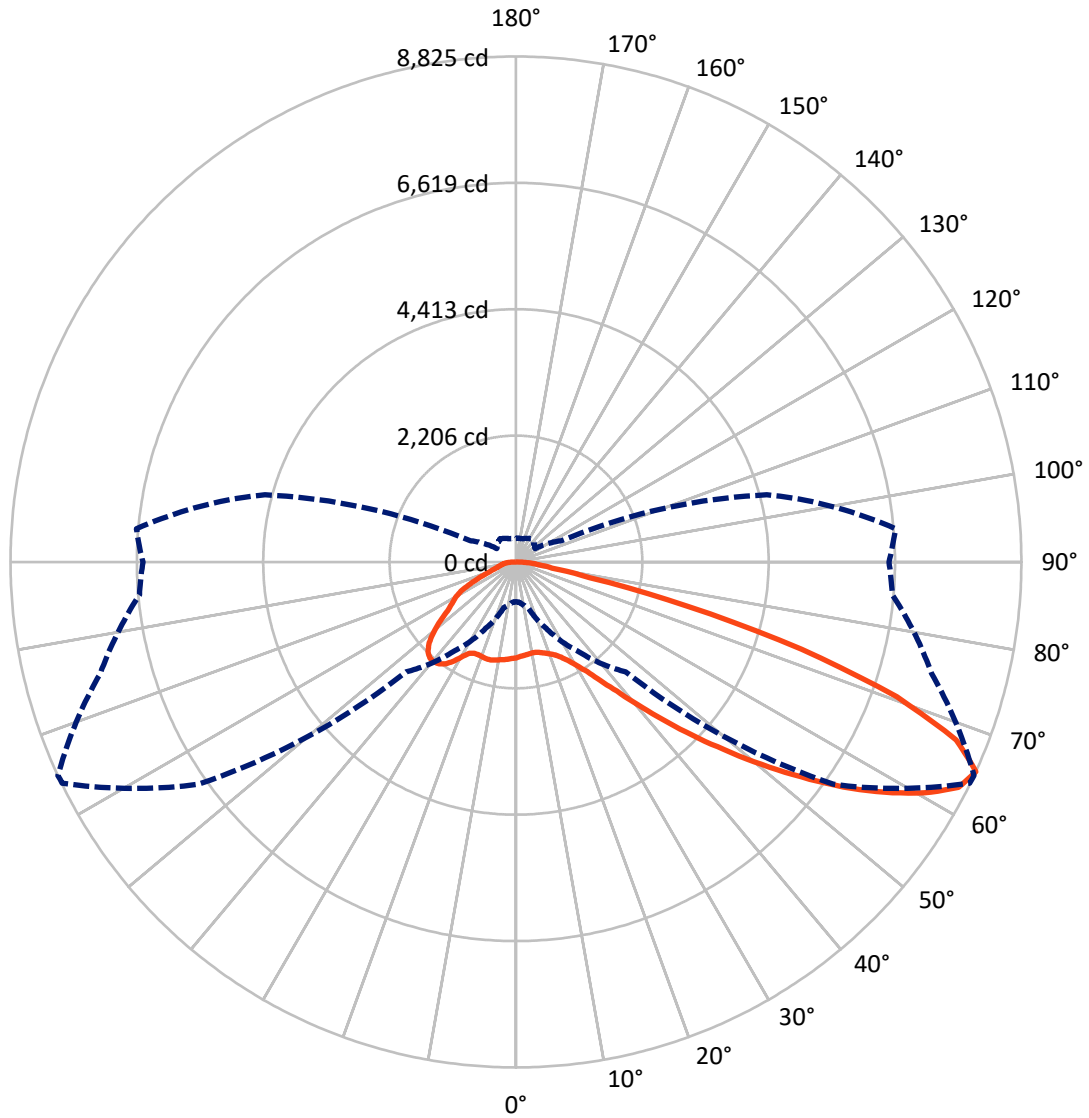
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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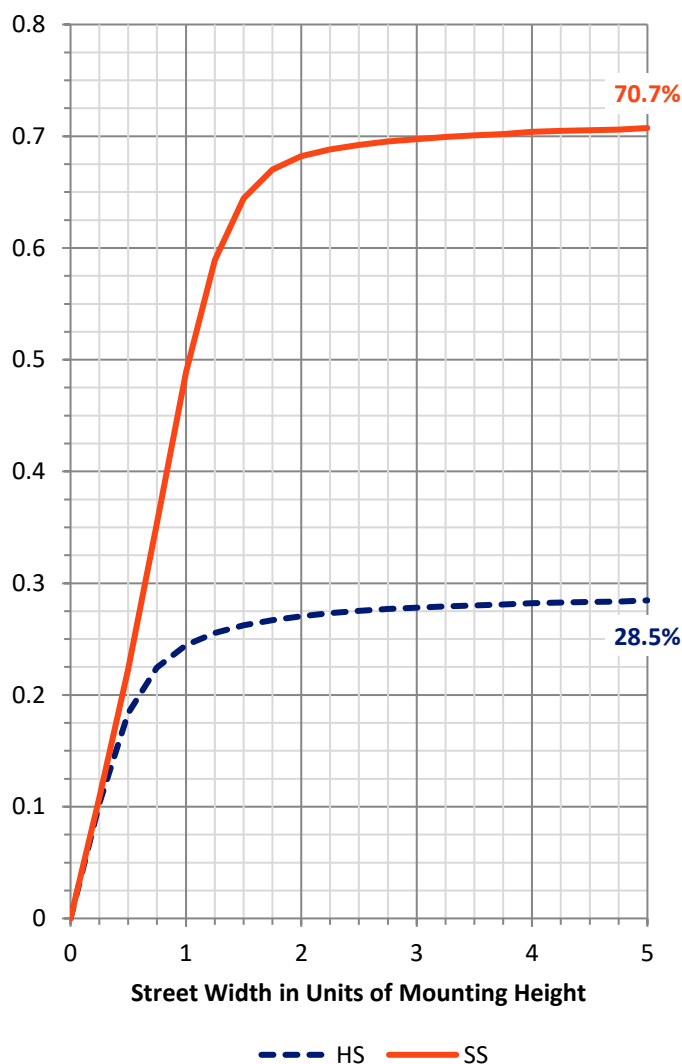
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3831.6	0.0	3831.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	9421.4	0.0	9421.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	13253.0	0.0	13253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	1.2
10°-20°	476.3	3.6
20°-30°	846.1	6.4
30°-40°	1431.4	10.8
40°-50°	2491.8	18.8
50°-60°	3220.2	24.3
60°-70°	2817.9	21.3
70°-80°	1532.7	11.6
80°-90°	276.9	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°	13253.0	100.0
0°-180°	13253.0	100.0

Coefficient of Utilization



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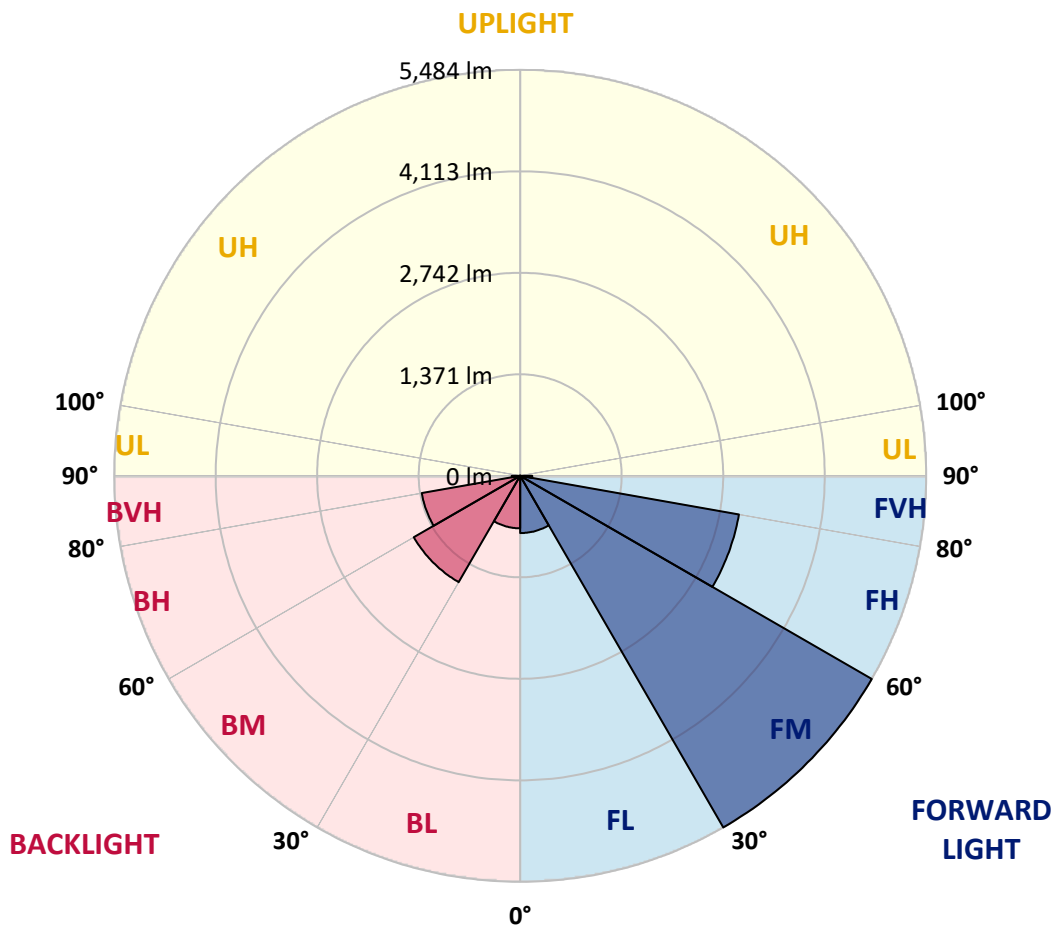
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.3	5.8			
FM (30°-60°)	5484.5	41.4			
FH (60°-80°)	3000.7	22.6			G2/5000
FVH (80°-90°)	163.0	1.2			G2/225
BL (0°-30°)	708.7	5.3	B2/1000		
BM (30°-60°)	1659.0	12.5	B2/2500		
BH (60°-80°)	1349.9	10.2	B3/2500		G3/2500
BVH (80°-90°)	114.0	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°	1674.6	1674.6	1674.6	1674.6	1674.6	1674.6	1674.6	1674.6	1674.6	1674.6	1674.6
2.5°	1645.0	1643.2	1639.8	1643.2	1645.0	1648.5	1646.7	1650.2	1648.5	1653.7	1662.4
5°	1603.1	1599.6	1597.9	1606.6	1611.8	1620.6	1624.1	1636.3	1634.5	1643.2	1657.2
7.5°	1556.0	1556.0	1554.3	1564.7	1571.7	1587.4	1599.6	1620.6	1622.3	1638.0	1653.7
10°	1519.4	1521.1	1519.4	1528.1	1538.6	1557.8	1578.7	1608.4	1610.1	1632.8	1648.5
12.5°	1505.4	1505.4	1505.4	1517.6	1531.6	1557.8	1582.2	1613.6	1617.1	1641.5	1655.5
15°	1524.6	1526.4	1522.9	1535.1	1550.8	1582.2	1604.9	1638.0	1641.5	1664.2	1672.9
17.5°	1592.7	1599.6	1590.9	1597.9	1594.4	1618.8	1639.8	1672.9	1674.6	1693.8	1697.3
20°	1727.0	1734.0	1720.0	1711.3	1679.9	1678.1	1686.9	1713.0	1713.0	1725.2	1716.5
22.5°	1934.6	1941.5	1917.1	1884.0	1809.0	1772.3	1753.1	1765.4	1763.6	1768.8	1746.2
25°	2210.2	2208.4	2178.8	2117.7	1997.4	1908.4	1861.3	1842.1	1842.1	1831.6	1803.7
27.5°	2552.1	2525.9	2473.6	2400.3	2232.9	2109.0	2007.8	1959.0	1950.3	1918.9	1866.5
30°	2916.7	2897.5	2822.5	2716.1	2522.4	2363.7	2196.2	2098.5	2093.3	2025.3	1946.8
32.5°	3345.8	3314.4	3230.7	3103.3	2871.3	2648.0	2438.7	2290.4	2281.7	2173.5	2065.4
35°	3897.0	3870.9	3708.6	3581.3	3283.0	2989.9	2742.2	2545.1	2538.1	2405.6	2267.7
37.5°	4558.2	4490.1	4333.1	4094.2	3780.2	3433.0	3119.0	2871.3	2862.6	2716.1	2541.6
40°	5147.8	5086.7	4947.2	4727.4	4390.7	4005.2	3579.6	3279.5	3270.8	3092.9	2873.1
42.5°	5583.9	5542.0	5451.3	5324.0	5083.2	4849.5	4167.4	3773.2	3757.5	3527.2	3253.3
45°	5836.8	5803.7	5751.4	5782.8	5779.3	5735.7	4868.7	4361.1	4310.5	4012.2	3677.2
47.5°	5775.8	5746.1	5767.1	6011.3	6347.9	6600.9	5685.1	4962.9	4894.8	4505.8	4129.0
50°	5334.4	5346.7	5456.5	5924.1	6679.4	7241.1	6590.4	5648.4	5557.7	5003.0	4558.2
52.5°	4530.3	4559.9	4826.8	5481.0	6642.8	7656.3	7408.6	6356.7	6236.3	5487.9	4948.9
55°	3598.7	3673.8	4019.1	4706.4	6164.8	7685.9	8026.1	7068.4	6935.8	5943.2	5289.1
57.5°	2662.0	2773.6	3173.1	3804.6	5249.0	7216.7	8334.8	7748.7	7588.2	6395.0	5648.4
60°	1688.6	1756.6	2217.2	2962.0	4017.4	6068.8	8294.7	8327.9	8188.3	6845.1	6023.5
62.5°	1078.1	1111.2	1343.2	2112.5	2808.5	4493.6	7856.9	8765.7	8671.5	7255.0	6379.3
65°	692.5	706.5	825.1	1299.6	1911.9	2712.6	6766.6	8812.8	8825.0	7511.5	6599.1
67.5°	563.4	570.4	614.0	802.4	1351.9	1498.5	4713.4	8143.0	8291.2	7445.2	6524.1
70°	512.9	521.6	566.9	640.2	1046.7	1034.4	2281.7	6813.7	7056.2	7063.2	6191.0
72.5°	432.6	444.8	505.9	605.3	809.4	816.4	966.4	4853.0	5210.6	6313.1	5690.3
75°	361.1	368.1	420.4	533.8	685.6	652.4	678.6	2573.0	3089.4	5062.3	5158.3
77.5°	293.1	300.0	338.4	425.6	608.8	507.6	533.8	1065.8	1317.0	3436.5	4216.3
80°	209.3	216.3	259.9	331.4	460.5	457.0	396.0	587.9	638.5	1857.8	2738.7
82.5°	150.0	155.3	197.1	237.2	319.2	458.8	298.3	399.5	418.7	823.4	1104.2
85°	101.2	101.2	136.1	157.0	205.8	289.6	240.7	270.4	282.6	390.8	298.3
87.5°	43.6	43.6	73.3	80.2	108.2	134.3	179.7	136.1	139.6	211.1	122.1
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°	1674.6	1674.6	1674.6	1674.6	1674.6	1674.6	1674.6	1674.6	1674.6	1674.6	1674.6
2.5°	1667.7	1669.4	1672.9	1683.4	1690.3	1700.8	1706.0	1713.0	1713.0	1709.5	1711.3
5°	1664.2	1669.4	1681.6	1700.8	1713.0	1732.2	1746.2	1756.6	1760.1	1756.6	1758.4
7.5°	1662.4	1671.2	1692.1	1720.0	1737.4	1761.9	1781.1	1793.3	1802.0	1798.5	1800.2
10°	1657.2	1671.2	1697.3	1732.2	1758.4	1782.8	1800.2	1805.5	1810.7	1807.2	1805.5
12.5°	1664.2	1679.9	1707.8	1749.7	1779.3	1798.5	1803.7	1795.0	1782.8	1775.8	1774.1
15°	1678.1	1693.8	1721.7	1765.4	1791.5	1798.5	1786.3	1758.4	1730.5	1714.8	1713.0
17.5°	1697.3	1707.8	1730.5	1768.8	1789.8	1781.1	1756.6	1723.5	1702.6	1690.3	1692.1
20°	1709.5	1709.5	1727.0	1756.6	1774.1	1767.1	1737.4	1700.8	1667.7	1652.0	1646.7
22.5°	1727.0	1718.3	1720.0	1746.2	1770.6	1760.1	1697.3	1632.8	1585.7	1568.2	1566.5
25°	1774.1	1749.7	1734.0	1749.7	1807.2	1721.7	1596.1	1521.1	1477.5	1461.8	1463.6
27.5°	1831.6	1798.5	1765.4	1791.5	1836.9	1634.5	1467.1	1381.6	1355.4	1343.2	1348.4
30°	1889.2	1845.6	1802.0	1896.2	1815.9	1498.5	1301.3	1217.6	1194.9	1186.2	1193.2
32.5°	1995.6	1924.1	1871.8	2035.7	1751.4	1343.2	1121.7	1044.9	1024.0	1013.5	1010.0
35°	2173.5	2082.8	2030.5	2157.8	1660.7	1170.5	957.7	903.6	880.9	858.3	854.8
37.5°	2430.0	2320.1	2273.0	2227.6	1533.3	999.6	832.1	795.5	762.3	727.4	725.7
40°	2737.0	2594.0	2559.1	2259.0	1357.2	839.1	744.9	710.0	668.1	635.0	636.7
42.5°	3091.1	2907.9	2832.9	2250.3	1139.1	753.6	682.1	643.7	607.1	577.4	575.7
45°	3469.7	3262.1	3089.4	2189.2	922.8	694.3	643.7	598.3	561.7	528.6	525.1
47.5°	3888.3	3656.3	3326.6	2070.6	762.3	652.4	621.0	556.5	523.3	502.4	502.4
50°	4310.5	4033.1	3544.7	1891.0	668.1	621.0	587.9	533.8	507.6	490.2	490.2
52.5°	4671.6	4425.6	3724.3	1676.4	608.8	594.8	565.2	523.3	495.4	479.7	478.0
55°	5022.2	4790.2	3884.8	1463.6	560.0	560.0	560.0	514.6	483.2	469.2	467.5
57.5°	5371.1	5174.0	4052.3	1324.0	516.3	530.3	549.5	504.1	472.7	460.5	458.8
60°	5765.3	5634.5	4245.9	1226.3	478.0	498.9	535.5	491.9	455.3	444.8	443.1
62.5°	6184.0	6184.0	4422.1	1088.5	443.1	472.7	514.6	476.2	439.6	430.9	429.1
65°	6511.9	6653.2	4535.5	882.7	408.2	446.6	490.2	455.3	418.7	416.9	413.4
67.5°	6550.3	6771.8	4464.0	666.4	376.8	418.7	465.8	432.6	397.7	397.7	392.5
70°	6274.7	6499.7	4240.7	498.9	354.1	390.8	434.4	404.7	371.6	375.1	366.3
72.5°	5814.2	5870.0	3686.0	394.2	328.0	361.1	396.0	373.3	343.7	343.7	331.4
75°	5207.1	4896.6	2677.7	329.7	296.6	326.2	357.6	338.4	312.3	303.5	296.6
77.5°	4144.7	3548.2	1556.0	284.3	270.4	293.1	314.0	300.0	277.4	258.2	258.2
80°	2525.9	2079.3	687.3	246.0	239.0	256.4	270.4	254.7	235.5	216.3	211.1
82.5°	961.2	802.4	333.2	211.1	209.3	219.8	230.3	214.6	200.6	191.9	165.7
85°	263.4	242.5	228.5	176.2	172.7	171.0	183.2	176.2	157.0	129.1	115.1
87.5°	99.4	113.4	123.9	108.2	115.1	106.4	122.1	111.6	99.4	64.5	57.6
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)