

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: P399323

Luminaire Tested: **ARCH-L-PA3-120-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399323
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-PA3-120-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15662 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

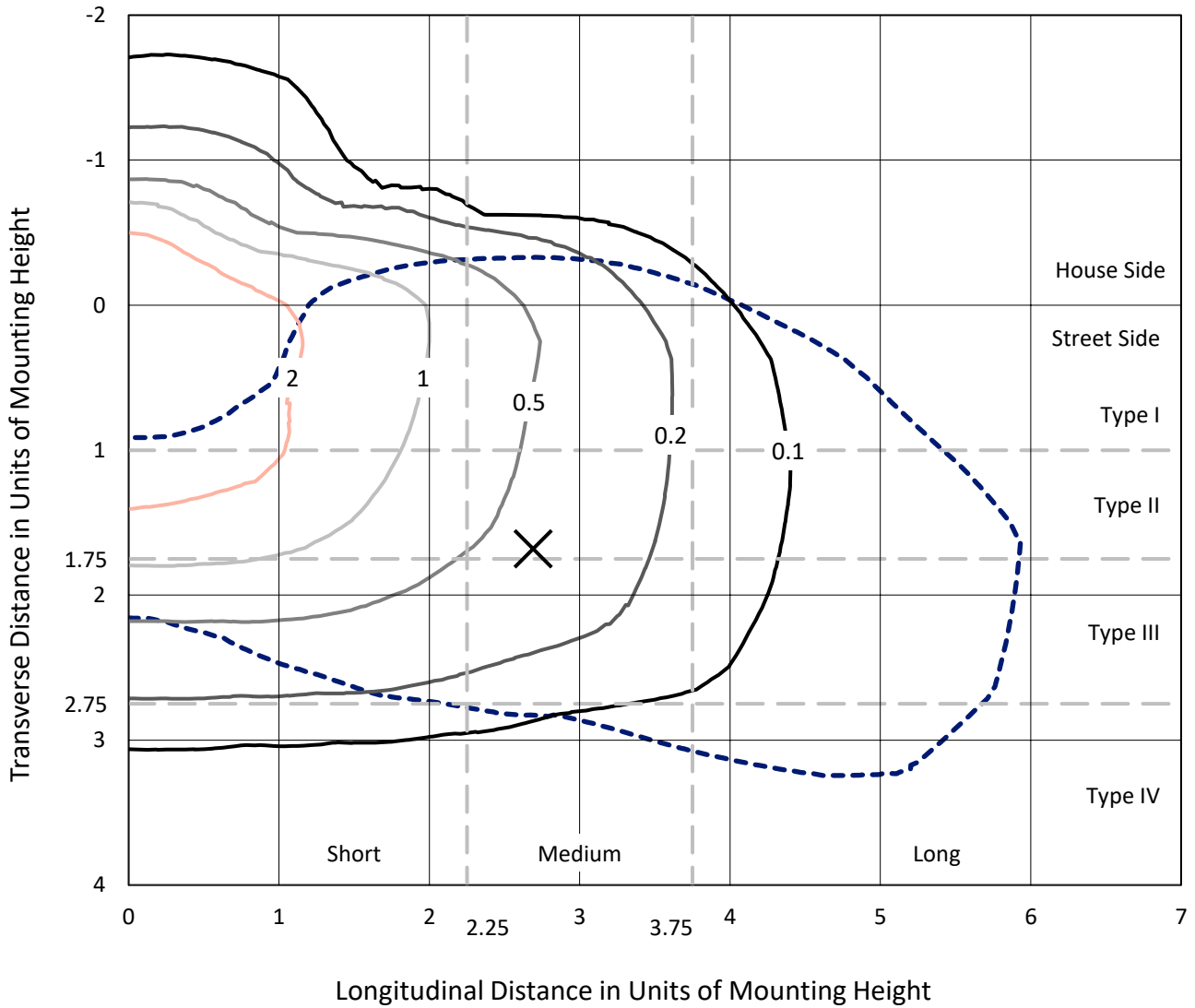
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399323
 CATALOG NUMBER: ARCH-L-PA3-120-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

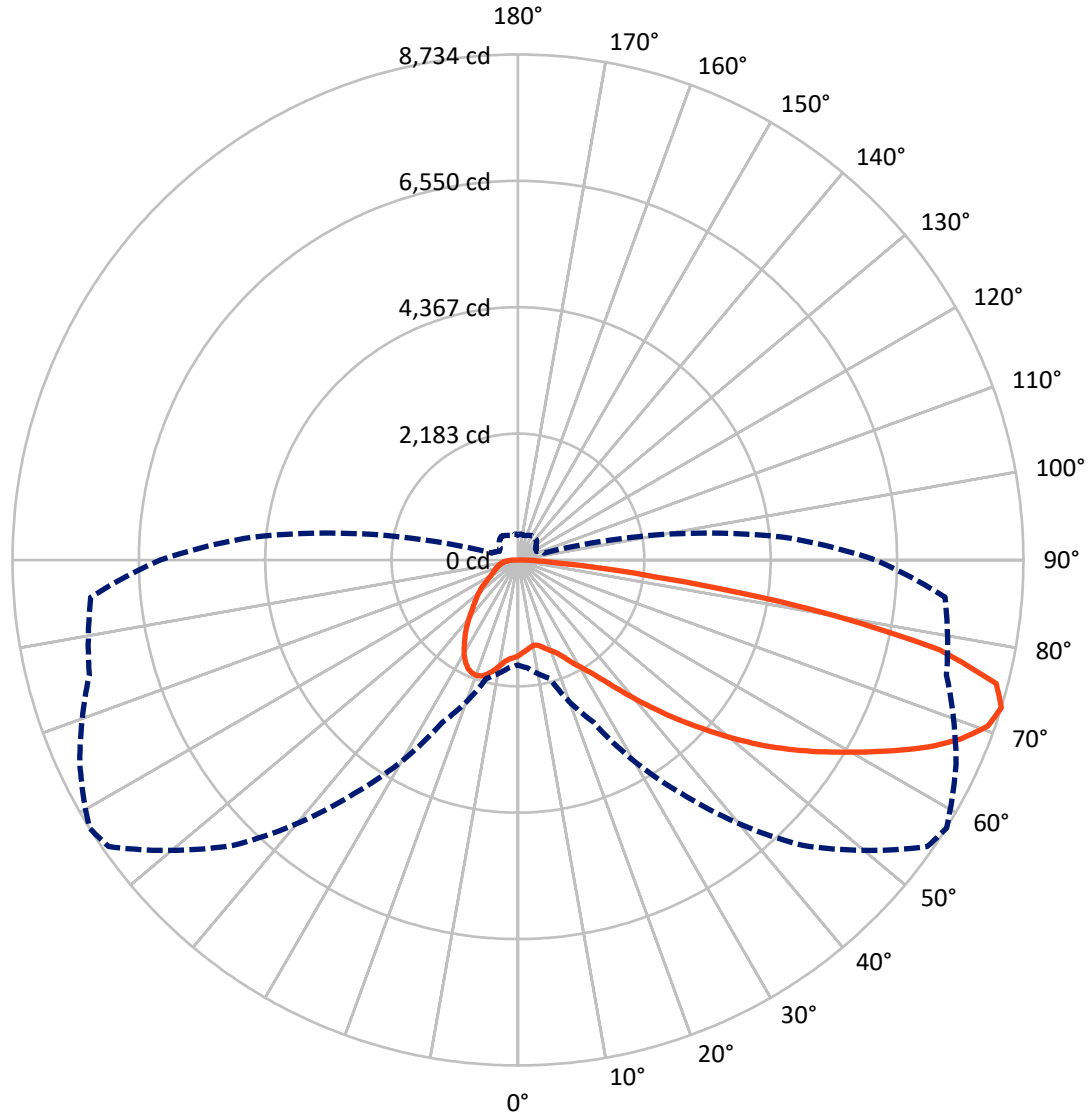
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399323
CATALOG NUMBER: ARCH-L-PA3-120-830-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: ARCH-L-PA3-120-830-U-T3

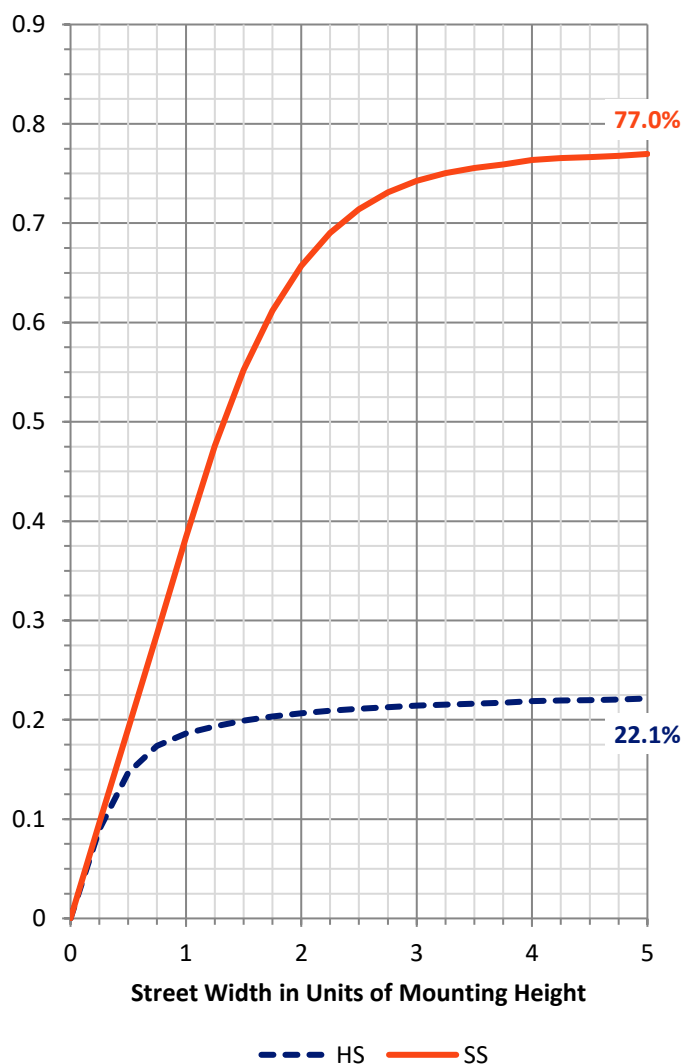
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3552.0	0.0	3552.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	12110.0	0.0	12110.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	15662.0	0.0	15662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	1.0
10°-20°	505.4	3.2
20°-30°	905.3	5.8
30°-40°	1361.9	8.7
40°-50°	2205.3	14.1
50°-60°	3319.7	21.2
60°-70°	3907.0	24.9
70°-80°	2770.4	17.7
80°-90°	527.9	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°	15662.0	100.0
0°-180°	15662.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399323

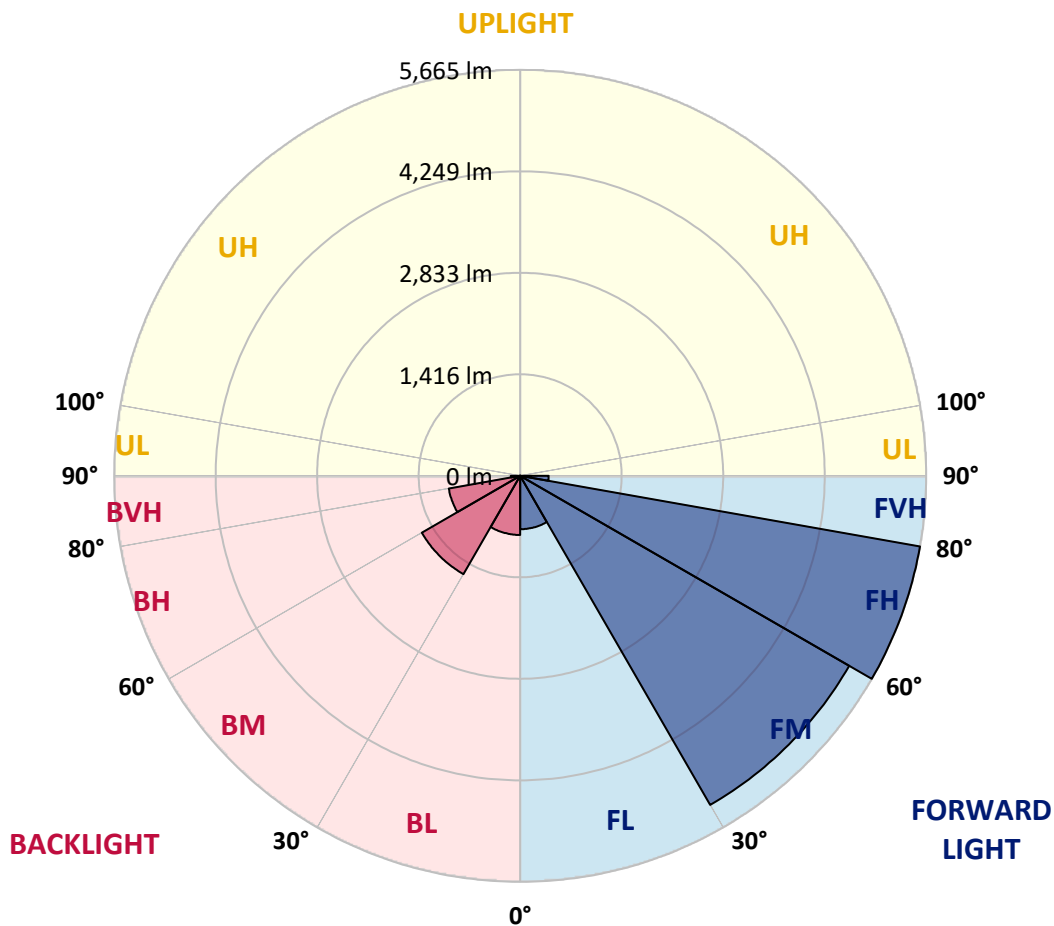
CATALOG NUMBER: ARCH-L-PA3-120-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.8	4.8			
FM (30°-60°)	5302.0	33.9			
FH (60°-80°)	5665.0	36.2			G3/7500
FVH (80°-90°)	398.2	2.5			G3/500
BL (0°-30°)	825.1	5.3	B2/1000		
BM (30°-60°)	1584.9	10.1	B2/2500		
BH (60°-80°)	1012.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	129.7	0.8			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 IV Medium





REPORT NUMBER: P399323

CATALOG NUMBER: ARCH-L-PA3-120-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0
2.5°	1590.0	1581.7	1583.8	1583.8	1592.0	1596.2	1598.3	1604.5	1608.6	1618.9	1633.4
5°	1515.5	1509.3	1511.4	1513.5	1528.0	1542.4	1554.8	1563.1	1575.5	1592.0	1612.7
7.5°	1461.8	1457.7	1459.7	1463.9	1476.3	1492.8	1513.5	1525.9	1544.5	1575.5	1610.7
10°	1422.5	1422.5	1424.6	1432.8	1445.2	1465.9	1482.5	1496.9	1534.2	1590.0	1643.7
12.5°	1391.5	1391.5	1397.7	1414.2	1434.9	1455.6	1494.9	1511.4	1561.0	1637.5	1701.6
15°	1389.4	1391.5	1393.6	1408.0	1430.8	1476.3	1534.2	1559.0	1618.9	1709.9	1784.3
17.5°	1422.5	1424.6	1416.3	1420.4	1447.3	1511.4	1587.9	1616.9	1693.4	1792.6	1869.1
20°	1523.8	1523.8	1499.0	1476.3	1494.9	1565.2	1652.0	1681.0	1765.7	1875.3	1951.8
22.5°	1730.6	1740.9	1683.0	1633.4	1604.5	1643.7	1722.3	1753.3	1848.4	1966.3	2042.8
25°	1980.8	1991.1	1912.5	1842.2	1788.5	1782.3	1834.0	1867.0	1945.6	2067.6	2131.7
27.5°	2222.7	2204.1	2131.7	2065.5	1997.3	1941.5	1980.8	2009.7	2100.7	2193.7	2233.0
30°	2412.9	2398.4	2328.1	2280.6	2216.5	2144.1	2121.4	2152.4	2226.8	2313.6	2334.3
32.5°	2623.8	2613.4	2543.1	2481.1	2427.4	2359.1	2309.5	2324.0	2365.3	2427.4	2439.8
35°	2892.6	2915.3	2840.9	2714.8	2654.8	2588.6	2553.5	2557.6	2588.6	2627.9	2607.2
37.5°	3175.8	3202.7	3206.8	3008.4	2927.7	2867.8	2830.5	2845.0	2882.2	2909.1	2845.0
40°	3701.0	3674.1	3566.6	3419.8	3295.7	3237.9	3186.2	3184.1	3211.0	3258.5	3142.7
42.5°	4397.8	4373.0	4155.9	3965.6	3769.2	3703.1	3601.7	3558.3	3570.7	3630.7	3469.4
45°	5065.6	5055.3	4881.6	4660.4	4424.7	4296.5	4064.9	3959.4	3949.1	3996.7	3804.4
47.5°	5659.0	5613.5	5487.4	5315.8	5291.0	4956.0	4530.1	4387.4	4337.8	4364.7	4149.7
50°	6293.8	6138.7	5965.0	5859.6	6039.4	5727.2	4999.4	4850.6	4728.6	4747.2	4523.9
52.5°	6630.8	6370.3	6256.5	6287.6	6529.5	6409.5	5510.1	5328.2	5131.8	5158.6	4896.1
55°	6341.3	6339.2	6388.9	6581.2	6918.2	6779.6	5996.0	5791.3	5576.3	5582.5	5324.1
57.5°	5944.3	6025.0	6281.4	6705.2	7399.9	7168.4	6473.6	6256.5	6060.1	6029.1	5809.9
60°	5582.5	5671.4	6043.6	6684.5	7567.4	7524.0	6928.5	6738.3	6579.1	6488.1	6320.6
62.5°	5032.5	5098.7	5625.9	6552.2	7426.8	7780.4	7389.6	7259.3	7139.4	6951.3	6870.6
65°	4385.4	4408.1	4964.3	6115.9	7251.1	7879.6	7848.6	7790.7	7674.9	7397.9	7414.4
67.5°	3684.5	3729.9	4217.9	5419.2	6866.5	7834.1	8204.2	8251.8	8115.3	7699.7	7761.7
70°	2938.1	2993.9	3364.0	4455.7	6213.1	7637.7	8533.0	8609.5	8346.9	7799.0	7825.8
72.5°	1817.4	1871.2	2119.3	3095.2	4925.0	6978.1	8634.3	8733.5	8353.1	7666.6	7408.2
75°	628.5	634.8	829.1	1484.5	2923.6	5268.2	8303.5	8537.1	8090.5	7184.9	6446.8
77.5°	287.4	297.7	368.0	612.0	1296.4	2842.9	6856.1	7441.3	7292.4	6432.3	4962.2
80°	198.5	202.6	254.3	366.0	748.5	1000.7	4327.5	5090.4	5350.9	4980.8	3180.0
82.5°	148.9	153.0	196.4	248.1	539.6	485.9	1647.9	2365.3	2940.1	2886.4	1329.5
85°	142.7	140.6	153.0	165.4	359.8	289.5	533.4	731.9	1147.5	982.1	335.0
87.5°	62.0	68.2	157.1	93.0	188.2	134.4	231.6	270.9	349.4	303.9	119.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399323
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0
2.5°	1639.6	1643.7	1656.1	1674.8	1685.1	1705.8	1720.2	1728.5	1734.7	1736.8	1736.8
5°	1625.1	1633.4	1660.3	1691.3	1720.2	1763.7	1802.9	1825.7	1842.2	1848.4	1850.5
7.5°	1629.3	1649.9	1689.2	1734.7	1771.9	1827.8	1875.3	1920.8	1958.0	1972.5	1972.5
10°	1668.5	1697.5	1751.3	1811.2	1858.8	1916.7	1966.3	2005.6	2049.0	2073.8	2077.9
12.5°	1728.5	1763.7	1834.0	1900.1	1953.9	1999.4	2044.9	2073.8	2094.5	2113.1	2117.2
15°	1813.3	1856.7	1927.0	1995.2	2042.8	2071.7	2084.1	2084.1	2082.1	2084.1	2088.3
17.5°	1898.1	1939.4	2009.7	2077.9	2100.7	2084.1	2069.7	2065.5	2063.5	2059.3	2061.4
20°	1980.8	2020.0	2080.0	2131.7	2113.1	2055.2	2036.6	2034.5	2028.3	2024.2	2020.0
22.5°	2063.5	2092.4	2142.0	2160.6	2086.2	2003.5	1980.8	1968.4	1960.1	1949.7	1939.4
25°	2158.6	2166.8	2204.1	2175.1	2020.0	1908.4	1875.3	1856.7	1848.4	1838.1	1829.8
27.5°	2247.5	2247.5	2253.7	2152.4	1922.9	1782.3	1732.6	1699.6	1697.5	1695.4	1693.4
30°	2328.1	2317.8	2297.1	2084.1	1796.7	1627.2	1552.8	1519.7	1532.1	1542.4	1544.5
32.5°	2423.2	2402.5	2344.7	1991.1	1645.8	1453.5	1362.5	1348.1	1362.5	1375.0	1366.7
35°	2572.1	2534.9	2394.3	1883.6	1501.1	1294.3	1207.5	1186.8	1182.7	1180.6	1164.1
37.5°	2785.0	2721.0	2433.6	1767.8	1358.4	1153.7	1089.6	1046.2	1006.9	965.6	959.4
40°	3045.6	2936.0	2460.4	1635.5	1207.5	1035.9	967.6	911.8	845.6	773.3	765.0
42.5°	3330.9	3167.6	2472.8	1488.7	1075.1	938.7	853.9	783.6	709.2	653.4	643.0
45°	3639.0	3417.7	2462.5	1348.1	967.6	856.0	760.9	684.4	624.4	585.1	576.9
47.5°	3938.8	3705.1	2433.6	1236.4	884.9	785.7	688.5	618.2	572.7	529.3	519.0
50°	4323.3	3980.1	2398.4	1149.6	794.0	715.4	643.0	568.6	516.9	496.2	492.1
52.5°	4749.3	4255.1	2357.1	1040.0	705.0	659.6	614.1	547.9	531.4	492.1	485.9
55°	5210.3	4581.8	2348.8	901.5	626.5	620.3	585.1	566.5	570.7	492.1	481.7
57.5°	5696.2	4931.2	2367.4	762.9	562.4	585.1	597.5	583.1	576.9	502.4	481.7
60°	6202.8	5268.2	2311.6	634.8	512.8	556.2	612.0	574.8	529.3	498.3	483.8
62.5°	6694.9	5551.5	2069.7	543.8	475.5	547.9	603.7	543.8	492.1	492.1	485.9
65°	7052.6	5677.6	1618.9	477.6	450.7	537.6	589.3	523.1	481.7	496.2	488.0
67.5°	7093.9	5547.4	1087.6	425.9	430.1	519.0	556.2	504.5	471.4	508.6	496.2
70°	6839.6	5208.3	665.8	386.6	403.2	485.9	527.2	485.9	456.9	498.3	479.7
72.5°	6180.0	4575.6	469.3	353.6	374.2	454.9	500.4	469.3	436.3	450.7	432.1
75°	5069.7	3545.9	372.2	322.5	345.3	425.9	477.6	444.5	411.5	405.2	392.8
77.5°	3591.4	2272.3	299.8	297.7	314.3	390.8	446.6	415.6	382.5	370.1	361.8
80°	2065.5	1114.4	258.4	268.8	285.3	355.6	409.4	382.5	351.5	332.9	320.5
82.5°	789.8	388.7	227.4	233.6	252.2	318.4	372.2	349.4	318.4	335.0	281.2
85°	256.4	213.0	186.1	192.3	210.9	264.7	328.7	310.1	275.0	244.0	225.4
87.5°	113.7	115.8	99.2	109.6	132.3	175.7	239.8	227.4	200.6	167.5	161.3
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)