

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: P399206

Luminaire Tested: **ARCH-L-PA3-110-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399206
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-PA3-110-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16654 lumens
Efficiency: N/A
Efficacy: 147.4 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

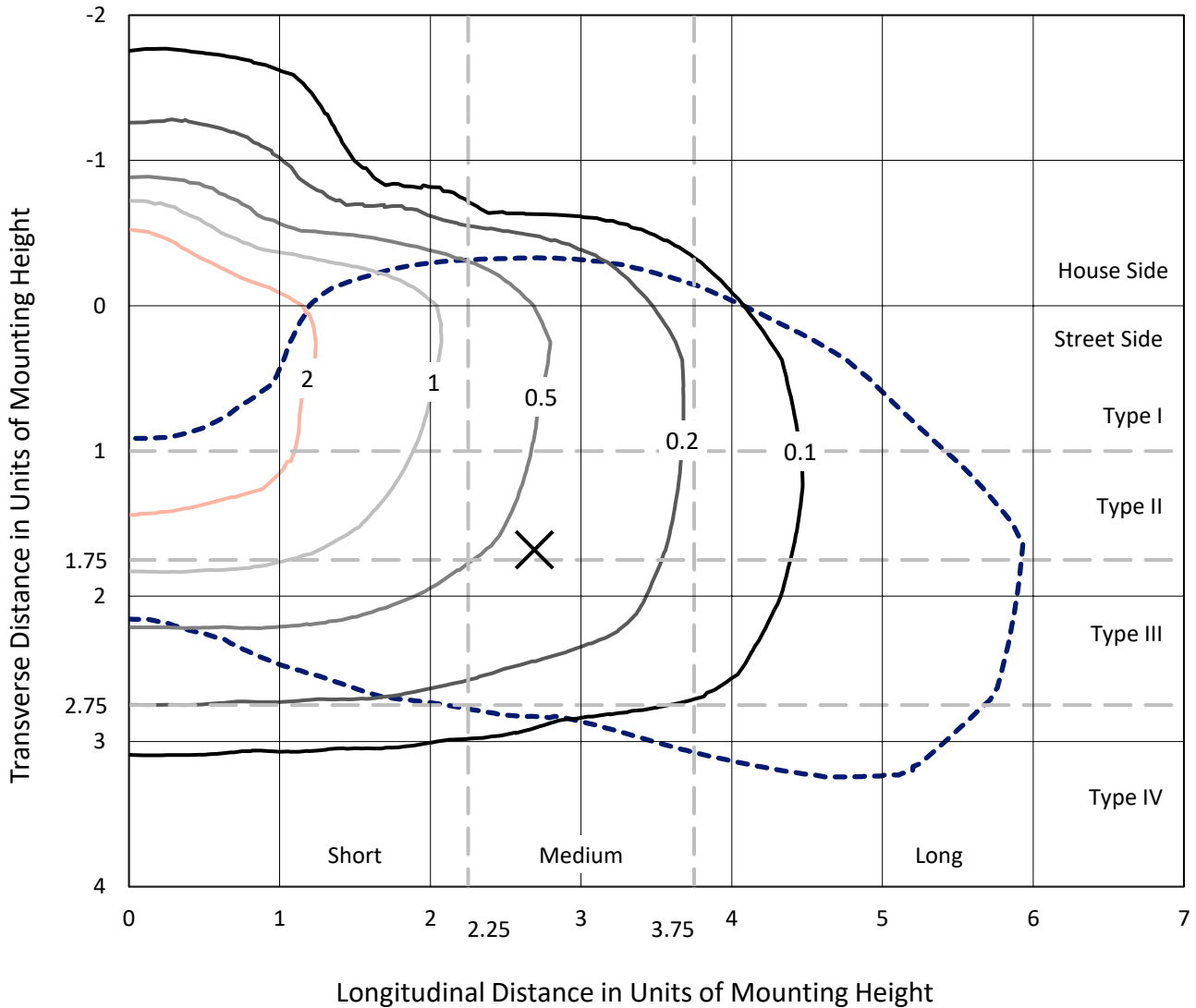
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

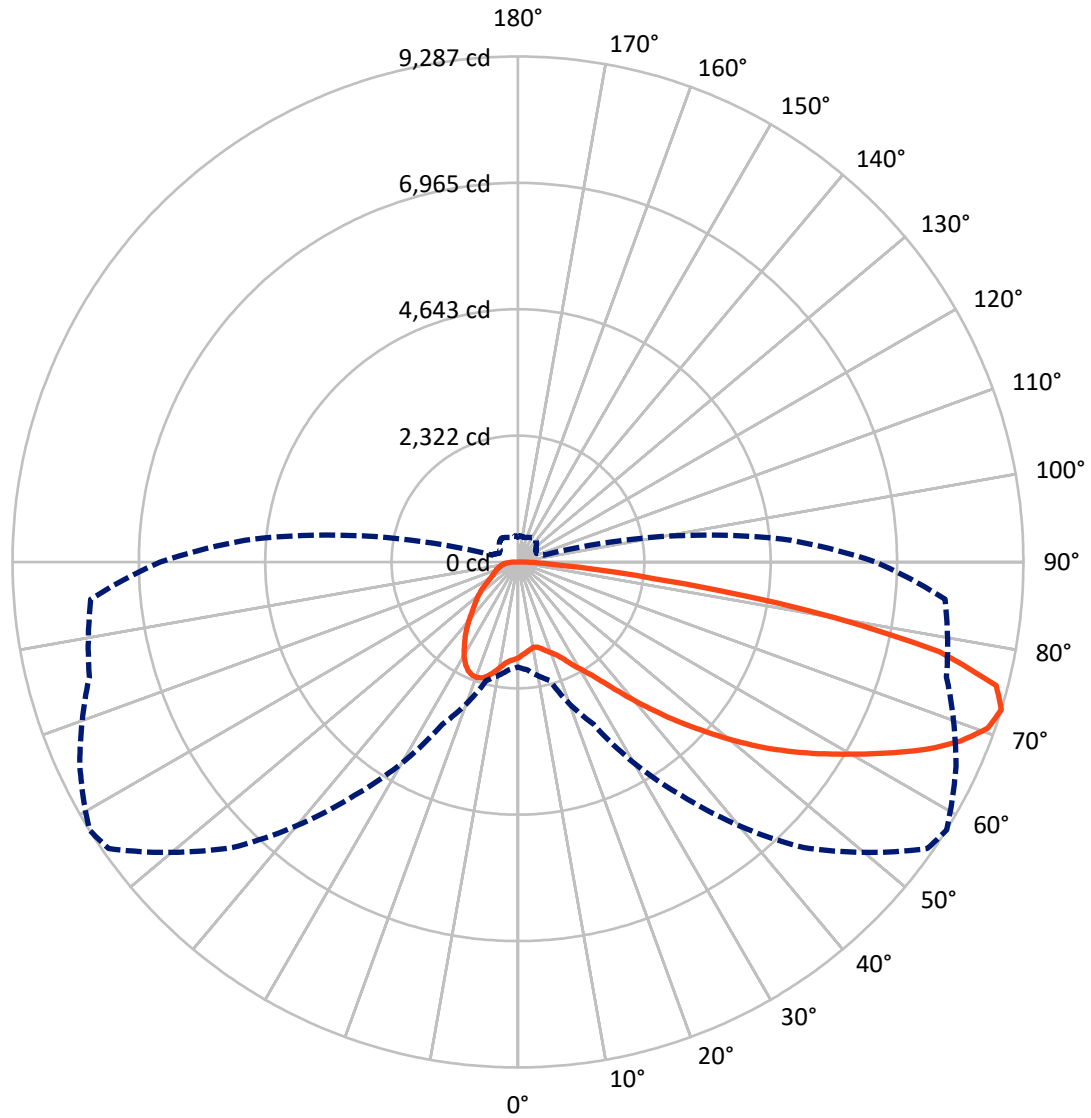
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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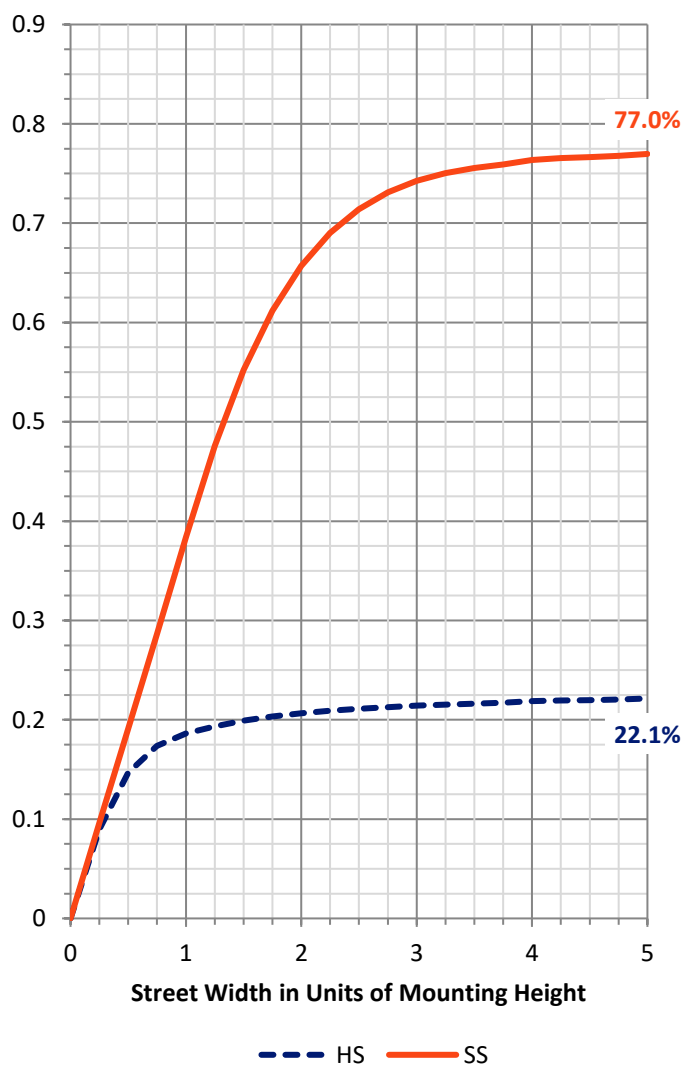
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3776.9	0.0	3776.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	12877.1	0.0	12877.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	16654.0	0.0	16654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	1.0
10°-20°	537.4	3.2
20°-30°	962.7	5.8
30°-40°	1448.1	8.7
40°-50°	2345.0	14.1
50°-60°	3530.0	21.2
60°-70°	4154.4	24.9
70°-80°	2945.9	17.7
80°-90°	561.3	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°	16654.0	100.0
0°-180°	16654.0	100.0

Coefficient of Utilization



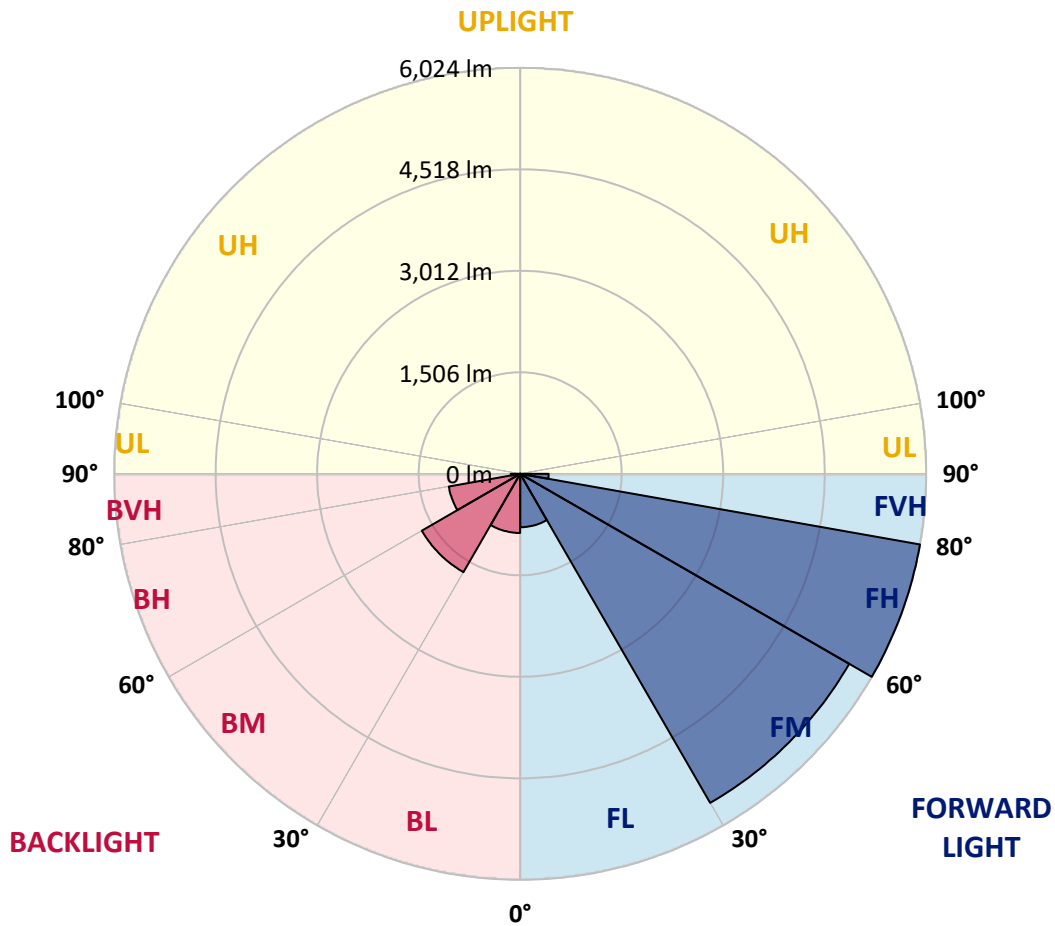
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.0	4.8			
FM (30°-60°)	5637.9	33.9			
FH (60°-80°)	6023.8	36.2			G3/7500
FVH (80°-90°)	423.4	2.5			G3/500
BL (0°-30°)	877.3	5.3	B2/1000		
BM (30°-60°)	1685.2	10.1	B2/2500		
BH (60°-80°)	1076.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	137.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6
2.5°	1690.7	1681.9	1684.1	1684.1	1692.9	1697.3	1699.5	1706.1	1710.5	1721.5	1736.9
5°	1611.5	1604.9	1607.1	1609.3	1624.7	1640.1	1653.3	1662.1	1675.3	1692.9	1714.9
7.5°	1554.4	1550.0	1552.2	1556.6	1569.8	1587.4	1609.3	1622.5	1642.3	1675.3	1712.7
10°	1512.6	1512.6	1514.8	1523.6	1536.8	1558.8	1576.4	1591.8	1631.3	1690.7	1747.8
12.5°	1479.6	1479.6	1486.2	1503.8	1525.8	1547.8	1589.6	1607.1	1659.9	1741.3	1809.4
15°	1477.4	1479.6	1481.8	1497.2	1521.4	1569.8	1631.3	1657.7	1721.5	1818.2	1897.4
17.5°	1512.6	1514.8	1506.0	1510.4	1539.0	1607.1	1688.5	1719.3	1800.6	1906.1	1987.5
20°	1620.3	1620.3	1594.0	1569.8	1589.6	1664.3	1756.6	1787.4	1877.6	1994.1	2075.4
22.5°	1840.2	1851.2	1789.6	1736.9	1706.1	1747.8	1831.4	1864.4	1965.5	2090.8	2172.2
25°	2106.2	2117.2	2033.7	1958.9	1901.7	1895.2	1950.1	1985.3	2068.8	2198.6	2266.7
27.5°	2363.4	2343.7	2266.7	2196.4	2123.8	2064.4	2106.2	2137.0	2233.7	2332.7	2374.4
30°	2565.7	2550.3	2475.6	2425.0	2356.8	2279.9	2255.7	2288.7	2367.8	2460.2	2482.2
32.5°	2790.0	2779.0	2704.2	2638.3	2581.1	2508.5	2455.8	2471.2	2515.1	2581.1	2594.3
35°	3075.8	3100.0	3020.8	2886.7	2822.9	2752.6	2715.2	2719.6	2752.6	2794.4	2772.4
37.5°	3377.0	3405.6	3410.0	3198.9	3113.1	3049.4	3009.8	3025.2	3064.8	3093.4	3025.2
40°	3935.4	3906.8	3792.5	3636.4	3504.5	3442.9	3388.0	3385.8	3414.4	3464.9	3341.8
42.5°	4676.3	4649.9	4419.1	4216.8	4008.0	3937.6	3829.9	3783.7	3796.9	3860.7	3689.2
45°	5386.5	5375.5	5190.8	4955.5	4704.9	4568.6	4322.4	4210.2	4199.2	4249.8	4045.3
47.5°	6017.4	5969.1	5835.0	5652.5	5626.1	5269.9	4817.0	4665.3	4612.6	4641.1	4412.5
50°	6692.4	6527.5	6342.8	6230.7	6422.0	6090.0	5316.1	5157.8	5028.1	5047.9	4810.4
52.5°	7050.8	6773.7	6652.8	6685.8	6943.0	6815.5	5859.1	5665.7	5456.8	5485.4	5206.2
55°	6743.0	6740.8	6793.5	6998.0	7356.4	7209.1	6375.8	6158.1	5929.5	5936.1	5661.3
57.5°	6320.8	6406.6	6679.2	7129.9	7868.6	7622.4	6883.7	6652.8	6444.0	6411.0	6177.9
60°	5936.1	6030.6	6426.4	7107.9	8046.7	8000.5	7367.3	7165.1	6995.8	6899.1	6721.0
62.5°	5351.3	5421.6	5982.3	6967.2	7897.2	8273.2	7857.6	7719.1	7591.6	7391.5	7305.8
65°	4663.1	4687.3	5278.7	6503.3	7710.3	8378.7	8345.7	8284.1	8161.0	7866.4	7884.0
67.5°	3917.8	3966.2	4485.0	5762.4	7301.4	8330.3	8723.9	8774.4	8629.3	8187.4	8253.4
70°	3124.1	3183.5	3577.0	4737.9	6606.6	8121.5	9073.4	9154.8	8875.6	8292.9	8321.5
72.5°	1932.5	1989.7	2253.5	3291.2	5237.0	7420.1	9181.2	9286.7	8882.1	8152.2	7877.4
75°	668.4	675.0	881.6	1578.6	3108.8	5601.9	8829.4	9077.8	8602.9	7640.0	6855.1
77.5°	305.6	316.6	391.3	650.8	1378.5	3023.0	7290.4	7912.6	7754.3	6839.7	5276.5
80°	211.1	215.5	270.4	389.1	795.9	1064.1	4601.6	5412.8	5689.9	5296.3	3381.4
82.5°	158.3	162.7	208.9	263.8	573.8	516.7	1752.2	2515.1	3126.3	3069.2	1413.7
85°	151.7	149.5	162.7	175.9	382.5	307.8	567.2	778.3	1220.2	1044.3	356.2
87.5°	66.0	72.6	167.1	98.9	200.1	142.9	246.2	288.0	371.6	323.2	127.5
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°	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6	1756.6
2.5°	1743.5	1747.8	1761.0	1780.8	1791.8	1813.8	1829.2	1838.0	1844.6	1846.8	1846.8
5°	1728.1	1736.9	1765.4	1798.4	1829.2	1875.4	1917.1	1941.3	1958.9	1965.5	1967.7
7.5°	1732.5	1754.4	1796.2	1844.6	1884.2	1943.5	1994.1	2042.5	2082.0	2097.4	2097.4
10°	1774.2	1805.0	1862.2	1925.9	1976.5	2038.1	2090.8	2132.6	2178.8	2205.1	2209.5
12.5°	1838.0	1875.4	1950.1	2020.5	2077.6	2126.0	2174.4	2205.1	2227.1	2246.9	2251.3
15°	1928.1	1974.3	2049.1	2121.6	2172.2	2202.9	2216.1	2216.1	2213.9	2216.1	2220.5
17.5°	2018.3	2062.2	2137.0	2209.5	2233.7	2216.1	2200.8	2196.4	2194.2	2189.8	2192.0
20°	2106.2	2148.0	2211.7	2266.7	2246.9	2185.4	2165.6	2163.4	2156.8	2152.4	2148.0
22.5°	2194.2	2224.9	2277.7	2297.5	2218.3	2130.4	2106.2	2093.0	2084.2	2073.2	2062.2
25°	2295.3	2304.1	2343.7	2312.9	2148.0	2029.3	1994.1	1974.3	1965.5	1954.5	1945.7
27.5°	2389.8	2389.8	2396.4	2288.7	2044.7	1895.2	1842.4	1807.2	1805.0	1802.8	1800.6
30°	2475.6	2464.6	2442.6	2216.1	1910.5	1730.3	1651.1	1615.9	1629.1	1640.1	1642.3
32.5°	2576.7	2554.7	2493.2	2117.2	1750.0	1545.6	1448.8	1433.5	1448.8	1462.0	1453.2
35°	2735.0	2695.4	2545.9	2002.9	1596.1	1376.3	1284.0	1262.0	1257.6	1255.4	1237.8
37.5°	2961.4	2893.3	2587.7	1879.8	1444.4	1226.8	1158.6	1112.5	1070.7	1026.7	1020.1
40°	3238.5	3121.9	2616.3	1739.1	1284.0	1101.5	1028.9	969.6	899.2	822.3	813.5
42.5°	3541.9	3368.2	2629.5	1583.0	1143.2	998.1	908.0	833.3	754.1	694.7	683.7
45°	3869.5	3634.2	2618.5	1433.5	1028.9	910.2	809.1	727.7	664.0	622.2	613.4
47.5°	4188.2	3939.8	2587.7	1314.7	941.0	835.4	732.1	657.4	609.0	562.8	551.8
50°	4597.2	4232.2	2550.3	1222.4	844.2	760.7	683.7	604.6	549.6	527.7	523.3
52.5°	5050.1	4524.6	2506.3	1105.9	749.7	701.3	653.0	582.6	565.0	523.3	516.7
55°	5540.4	4872.0	2497.6	958.6	666.2	659.6	622.2	602.4	606.8	523.3	512.3
57.5°	6057.0	5243.5	2517.3	811.3	598.0	622.2	635.4	620.0	613.4	534.2	512.3
60°	6595.7	5601.9	2458.0	675.0	545.2	591.4	650.8	611.2	562.8	529.9	514.5
62.5°	7118.9	5903.1	2200.8	578.2	505.7	582.6	642.0	578.2	523.3	523.3	516.7
65°	7499.3	6037.2	1721.5	507.9	479.3	571.6	626.6	556.2	512.3	527.7	518.9
67.5°	7543.2	5898.7	1156.4	452.9	457.3	551.8	591.4	536.4	501.3	540.8	527.7
70°	7272.8	5538.2	707.9	411.1	428.7	516.7	560.6	516.7	485.9	529.9	510.1
72.5°	6571.5	4865.4	499.1	376.0	397.9	483.7	532.0	499.1	463.9	479.3	459.5
75°	5390.8	3770.5	395.7	343.0	367.2	452.9	507.9	472.7	437.5	430.9	417.7
77.5°	3818.9	2416.2	318.8	316.6	334.2	415.5	474.9	441.9	406.7	393.5	384.7
80°	2196.4	1185.0	274.8	285.8	303.4	378.2	435.3	406.7	373.8	354.0	340.8
82.5°	839.8	413.3	241.8	248.4	268.2	338.6	395.7	371.6	338.6	356.2	299.0
85°	272.6	226.5	197.9	204.5	224.3	281.4	349.6	329.8	292.4	259.4	239.6
87.5°	120.9	123.1	105.5	116.5	140.7	186.9	255.0	241.8	213.3	178.1	171.5
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)