

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: P237064

Luminaire Tested: **ARCH-L-AF72-110-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-110-D-U-T3-7030
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: 14884.4 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

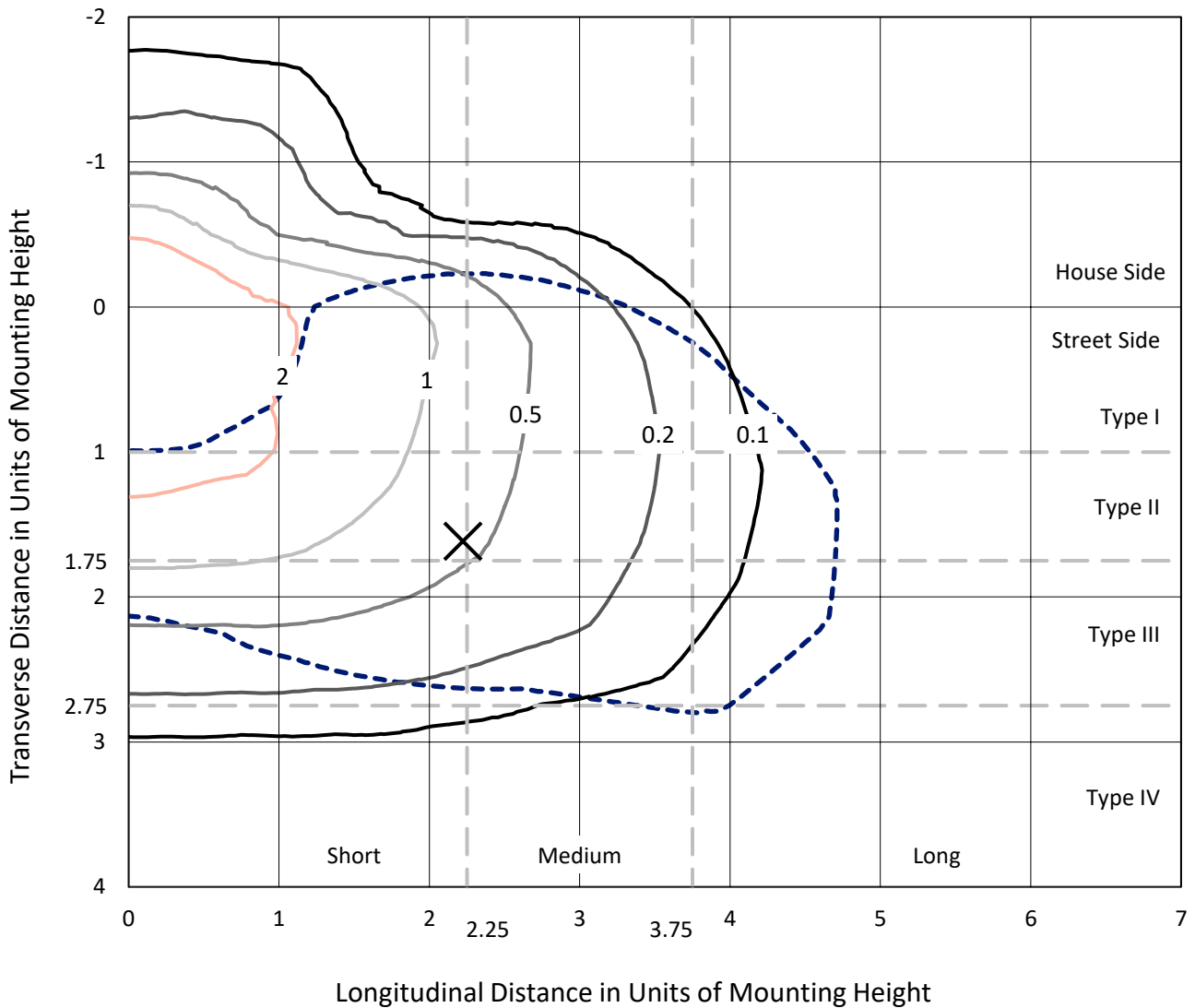
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

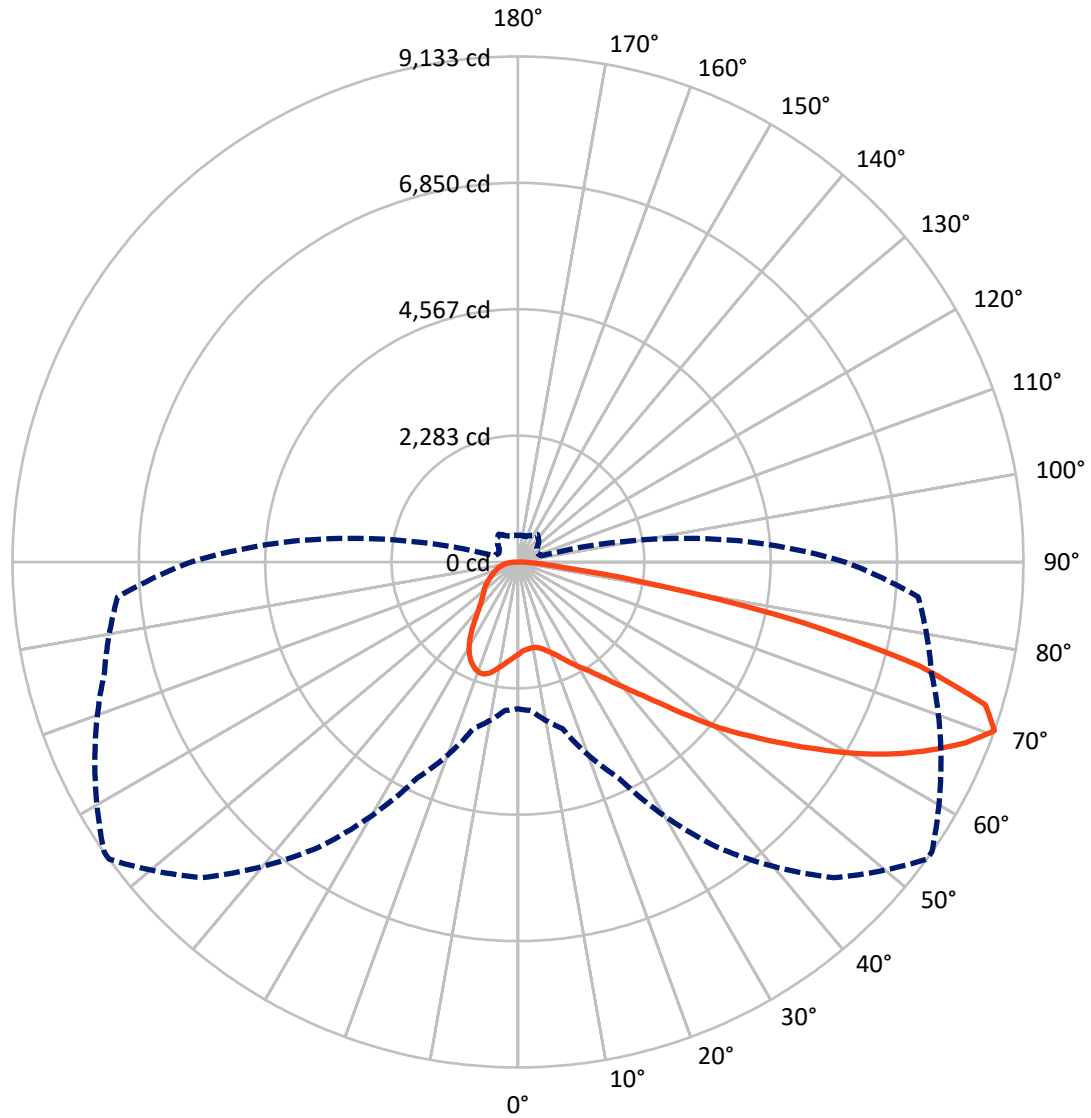
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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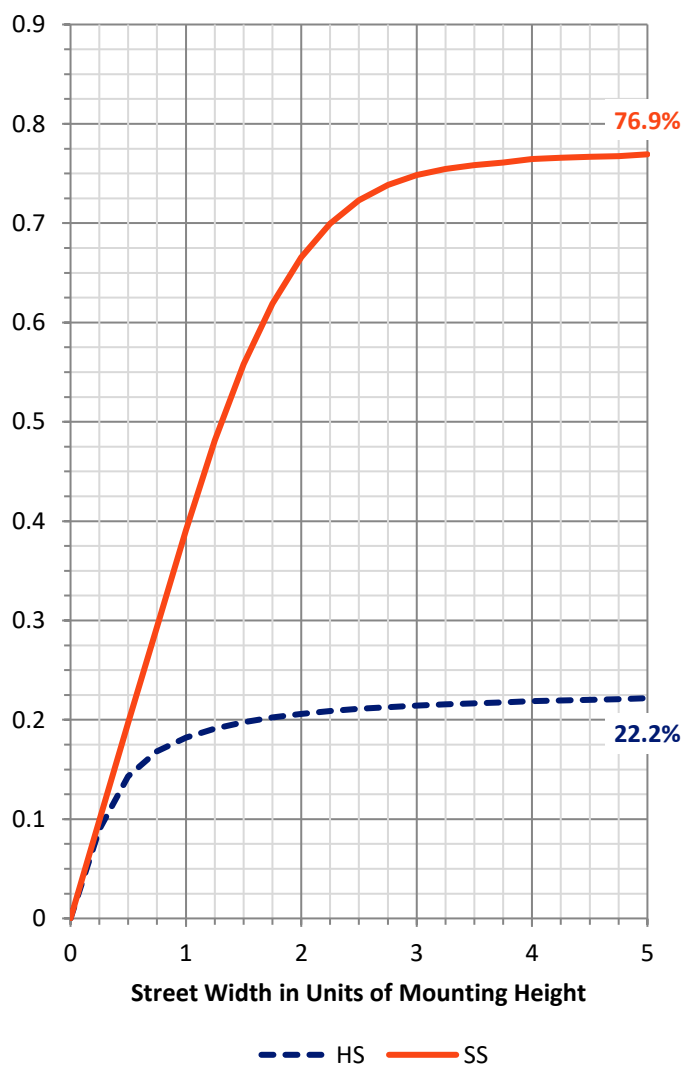
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3375.7	0.0	3375.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11508.6	0.0	11508.6
	% Fixture	77.3	0.0	77.3
Total	Lumens	14884.4	0.0	14884.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	1.1
10°-20°	522.2	3.5
20°-30°	907.2	6.1
30°-40°	1325.8	8.9
40°-50°	2080.8	14.0
50°-60°	3199.8	21.5
60°-70°	3909.3	26.3
70°-80°	2423.8	16.3
80°-90°	352.1	2.4
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°	14884.4	100.0
0°-180°	14884.4	100.0

Coefficient of Utilization



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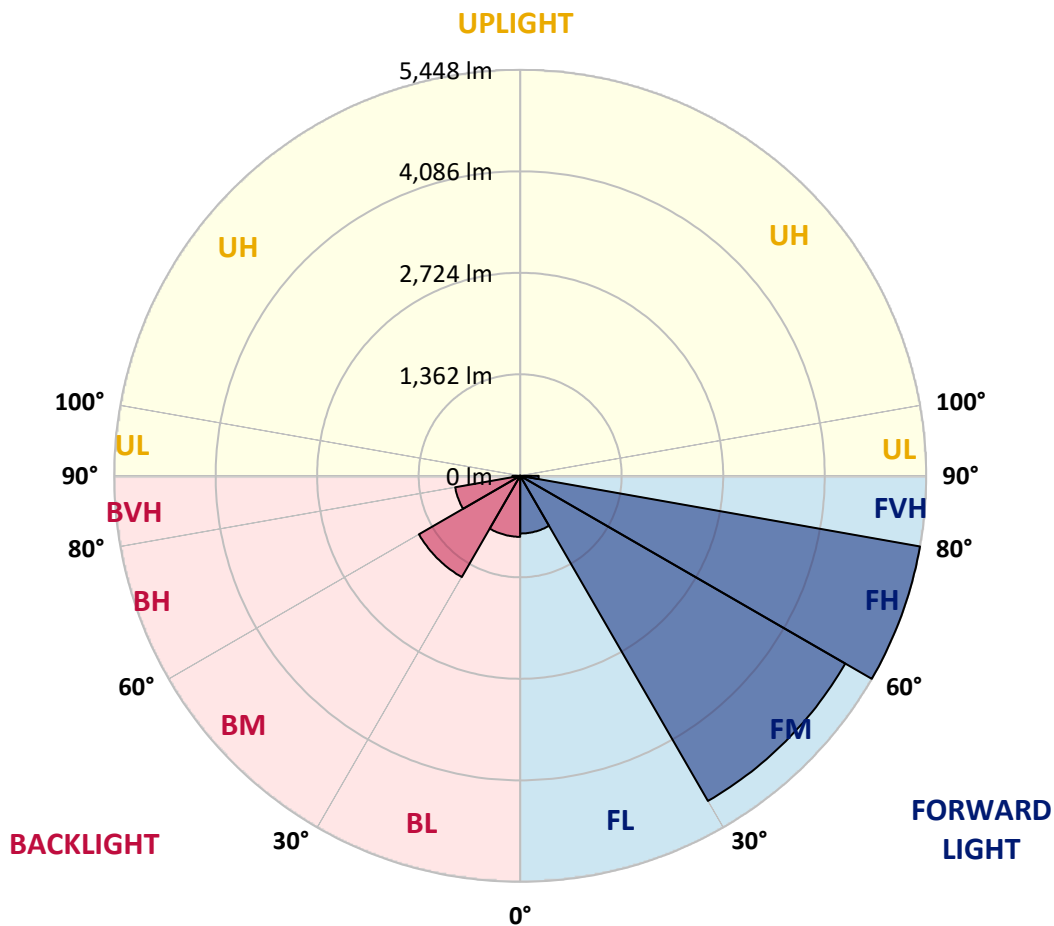
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.4	5.2			
FM (30°-60°)	5037.7	33.8			
FH (60°-80°)	5447.9	36.6			G3/7500
FVH (80°-90°)	248.6	1.7			G3/500
BL (0°-30°)	818.4	5.5	B2/1000		
BM (30°-60°)	1568.6	10.5	B2/2500		
BH (60°-80°)	885.2	5.9	B2/1000		G2/1000
BVH (80°-90°)	103.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2
2.5°	1599.9	1594.4	1594.4	1602.7	1605.3	1613.4	1613.4	1616.2	1624.3	1638.1	1654.4
5°	1550.8	1548.1	1550.8	1561.7	1567.1	1583.5	1588.9	1591.7	1608.1	1629.8	1654.4
7.5°	1501.8	1499.0	1504.5	1520.8	1537.2	1561.7	1575.3	1578.0	1602.7	1632.6	1665.2
10°	1485.4	1482.6	1490.9	1504.5	1520.8	1548.1	1569.8	1572.6	1608.1	1643.5	1689.8
12.5°	1507.2	1504.5	1512.5	1526.3	1542.6	1561.7	1586.2	1588.9	1635.3	1681.6	1730.6
15°	1561.7	1561.7	1564.4	1572.6	1588.9	1605.3	1627.1	1629.8	1678.9	1733.4	1782.4
17.5°	1646.2	1640.7	1640.7	1638.1	1648.9	1657.1	1684.3	1687.1	1738.9	1787.9	1836.9
20°	1749.8	1747.0	1736.1	1722.5	1719.7	1725.2	1752.5	1755.2	1807.0	1847.9	1894.2
22.5°	1875.1	1877.8	1853.4	1823.3	1809.7	1817.8	1842.4	1845.2	1883.3	1918.7	1959.6
25°	2041.4	2033.2	1997.8	1954.2	1926.9	1926.9	1951.5	1951.5	1986.9	2008.6	2035.9
27.5°	2199.5	2183.1	2150.4	2087.7	2044.1	2052.3	2076.8	2076.8	2109.5	2117.7	2131.3
30°	2371.2	2354.7	2313.9	2234.9	2177.6	2172.2	2202.2	2199.5	2243.1	2240.4	2229.4
32.5°	2581.0	2572.8	2504.7	2403.8	2327.5	2308.4	2335.8	2338.4	2365.7	2357.5	2322.1
35°	2875.3	2872.7	2809.9	2632.8	2532.0	2496.6	2512.9	2512.9	2532.0	2510.1	2450.2
37.5°	3246.0	3251.4	3196.9	2935.4	2793.6	2733.6	2736.4	2733.6	2739.1	2714.5	2651.8
40°	3616.7	3630.3	3627.6	3311.4	3131.6	3028.0	2989.9	2984.4	2998.0	2987.1	2927.2
42.5°	4104.6	4137.2	4060.9	3774.8	3573.1	3398.6	3295.0	3281.5	3311.4	3325.1	3267.8
45°	4611.5	4600.6	4480.7	4273.5	4090.8	3867.4	3671.2	3649.4	3671.2	3712.1	3652.1
47.5°	4875.9	4867.7	4837.7	4734.1	4706.9	4450.6	4153.6	4134.6	4093.6	4150.9	4080.1
50°	5311.9	5320.2	5197.5	5186.5	5301.0	5159.3	4698.7	4655.1	4581.6	4627.9	4567.9
52.5°	5628.1	5592.7	5516.4	5611.8	5968.9	5892.5	5211.1	5192.0	5123.9	5113.0	5085.7
55°	5756.3	5756.3	5769.9	5990.5	6500.3	6399.5	5767.1	5786.2	5693.5	5617.2	5652.6
57.5°	5794.3	5810.7	5927.9	6293.2	7124.4	6794.7	6380.3	6407.6	6274.0	6121.4	6233.1
60°	5606.3	5655.4	5936.0	6464.9	7475.9	7214.3	7026.3	7034.4	6840.9	6617.4	6813.6
62.5°	5123.9	5183.8	5685.3	6535.7	7418.7	7645.0	7636.7	7655.8	7391.5	7113.5	7358.7
65°	4532.5	4592.3	5126.7	6336.7	7375.1	7952.9	8195.5	8247.3	7906.5	7533.2	7699.5
67.5°	3663.0	3742.0	4249.0	5666.3	7162.5	8206.4	8718.8	8773.3	8304.5	7751.3	7669.5
70°	2654.6	2692.8	3117.9	4306.2	6295.8	8067.3	9133.1	9130.4	8435.4	7734.9	7260.6
72.5°	1278.3	1308.3	1676.1	2673.7	4502.5	6846.4	8833.3	8885.1	8255.4	7497.8	6325.8
75°	526.0	556.0	678.6	1128.3	2363.0	4524.3	7486.9	7609.5	7497.8	6729.2	4949.5
77.5°	327.0	337.9	397.9	583.2	1079.3	2112.2	5241.0	5407.3	5941.5	5391.0	3267.8
80°	245.3	253.5	297.0	408.8	681.3	779.4	2602.8	2812.7	3600.3	3093.4	1479.9
82.5°	204.5	207.1	237.1	297.0	463.4	447.0	833.9	929.4	1678.9	1180.1	509.7
85°	190.7	196.2	212.6	212.6	294.4	280.7	346.2	362.5	487.9	403.3	177.1
87.5°	98.2	92.7	188.0	166.3	152.6	136.2	147.2	158.1	182.6	193.5	79.0
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°	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2
2.5°	1659.7	1668.0	1681.6	1695.2	1711.5	1730.6	1741.6	1755.2	1766.0	1760.6	1758.0
5°	1668.0	1681.6	1711.5	1738.9	1771.5	1809.7	1834.3	1861.4	1883.3	1888.8	1880.6
7.5°	1681.6	1706.2	1747.0	1796.1	1839.7	1888.8	1926.9	1965.0	1992.4	1997.8	1997.8
10°	1714.3	1741.6	1796.1	1861.4	1913.2	1965.0	2008.6	2038.7	2063.2	2074.1	2074.1
12.5°	1760.6	1793.4	1858.7	1937.8	1995.1	2044.1	2068.6	2082.3	2093.2	2104.2	2106.7
15°	1815.2	1850.7	1929.6	2014.0	2074.1	2098.7	2098.7	2095.9	2095.9	2101.4	2106.7
17.5°	1869.7	1907.7	1989.6	2079.5	2117.7	2104.2	2085.0	2076.8	2071.3	2068.6	2076.8
20°	1926.9	1965.0	2046.9	2131.3	2120.4	2063.2	2035.9	2016.8	2000.5	1992.4	2003.3
22.5°	1989.6	2025.0	2109.5	2166.7	2085.0	1997.8	1946.0	1916.0	1888.8	1872.3	1883.3
25°	2063.2	2098.7	2180.4	2177.6	2022.3	1899.7	1817.8	1768.8	1738.9	1722.5	1722.5
27.5°	2150.4	2180.4	2259.4	2150.4	1935.1	1768.8	1648.9	1602.7	1594.4	1580.8	1580.8
30°	2240.4	2264.8	2333.0	2087.7	1815.2	1597.2	1466.3	1444.5	1447.2	1433.6	1436.3
32.5°	2333.0	2357.5	2376.6	1995.1	1659.7	1403.7	1316.3	1300.0	1297.4	1286.4	1275.5
35°	2463.8	2499.3	2382.1	1869.7	1471.7	1242.9	1180.1	1163.8	1147.4	1109.3	1109.3
37.5°	2662.7	2700.9	2368.4	1714.3	1278.3	1117.4	1060.3	1038.4	1011.2	973.0	959.4
40°	2935.4	2935.4	2338.4	1539.9	1122.8	1016.5	962.1	934.8	904.8	866.8	858.6
42.5°	3256.9	3180.6	2292.2	1362.7	1008.5	948.5	899.4	869.3	833.9	790.4	784.9
45°	3633.1	3426.0	2226.7	1204.7	923.9	907.6	877.6	825.8	765.9	719.5	711.4
47.5°	3998.3	3646.6	2164.0	1092.9	853.1	891.2	866.8	779.4	697.7	632.3	624.1
50°	4398.9	3842.8	2090.4	1000.3	798.5	880.3	853.1	711.4	621.3	575.0	569.7
52.5°	4799.5	4041.8	2011.4	902.2	752.2	858.6	820.3	662.3	618.7	556.0	547.8
55°	5222.0	4273.5	1918.7	793.1	697.7	815.0	776.8	659.6	637.7	556.0	536.9
57.5°	5633.5	4529.8	1768.8	686.8	637.7	749.5	760.5	643.2	596.9	550.5	528.7
60°	6088.7	4802.3	1520.8	596.9	585.9	695.0	738.6	607.8	550.5	534.2	523.3
62.5°	6454.0	5047.6	1188.3	534.2	542.4	651.4	711.4	585.9	531.4	517.9	515.1
65°	6612.1	5053.0	853.1	479.6	498.8	610.5	684.1	566.9	515.1	509.7	507.0
67.5°	6445.7	4775.0	599.7	427.9	452.5	572.3	648.7	547.8	498.8	501.5	496.0
70°	5908.8	4189.0	438.7	378.8	408.8	531.4	610.5	523.3	479.6	485.1	476.9
72.5°	4944.0	3265.1	351.6	337.9	373.3	487.9	572.3	496.0	449.7	452.5	436.1
75°	3652.1	2164.0	294.4	302.5	332.4	447.0	523.3	460.6	417.1	406.1	395.2
77.5°	2172.2	1112.0	242.5	264.4	297.0	397.9	468.8	417.1	381.6	362.5	354.3
80°	896.7	449.7	199.0	223.4	259.0	354.3	414.3	365.3	340.7	321.7	310.8
82.5°	357.1	220.8	158.1	182.6	218.1	308.0	362.5	321.7	297.0	283.4	253.5
85°	136.2	109.0	106.3	128.1	163.6	237.1	299.8	269.9	250.7	215.3	207.1
87.5°	54.5	49.0	49.0	62.8	92.7	149.9	215.3	188.0	196.2	155.3	158.1
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)