

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: P237105

Luminaire Tested: **ARCH-L-AF72-120-D-U-T3-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-120-D-U-T3-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16587 lumens
Efficiency: N/A
Efficacy: 134.9 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

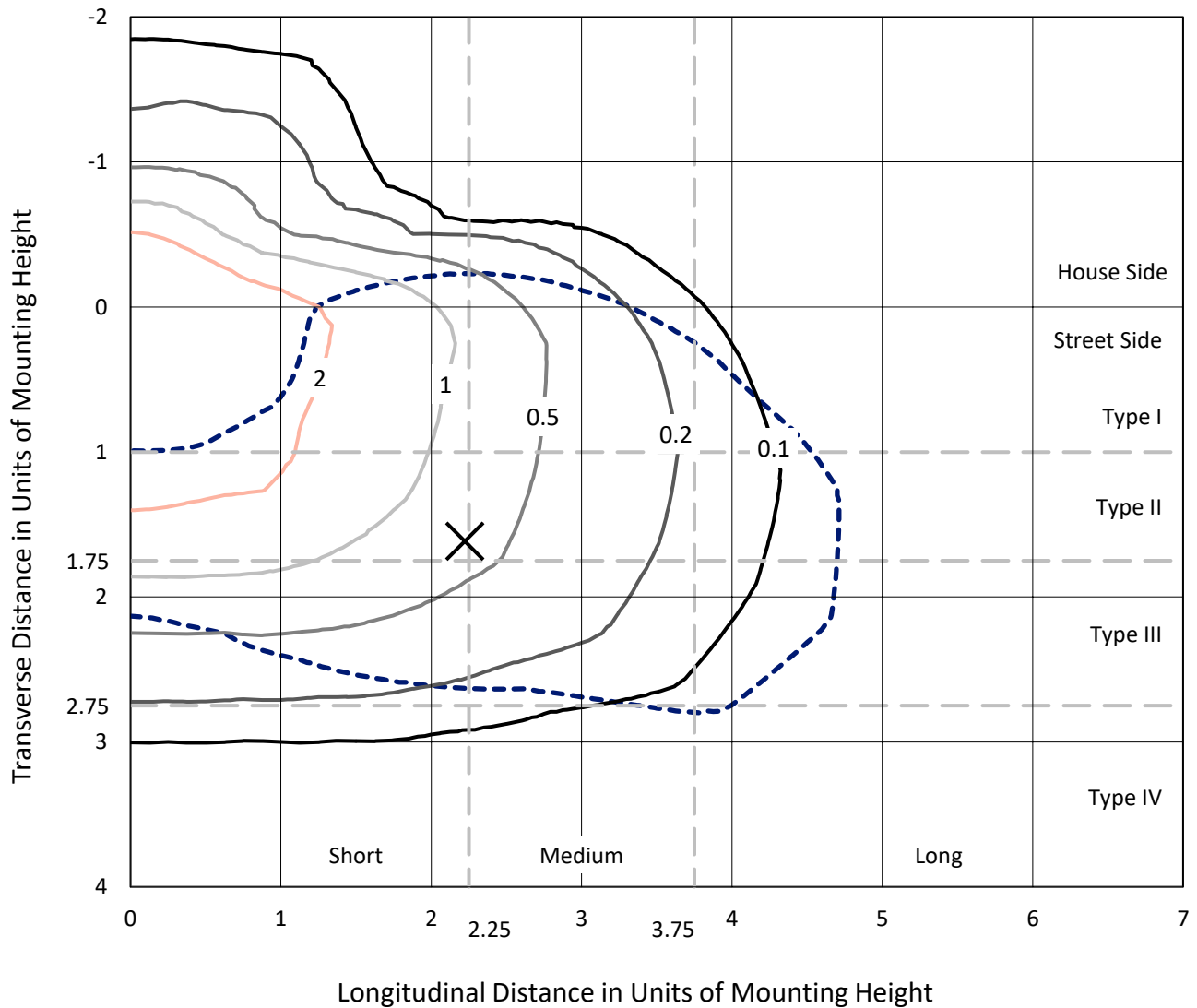
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P237105
 CATALOG NUMBER: ARCH-L-AF72-120-D-U-T3-7050

Iso-Footcandle Lines of Horizontal Illumination

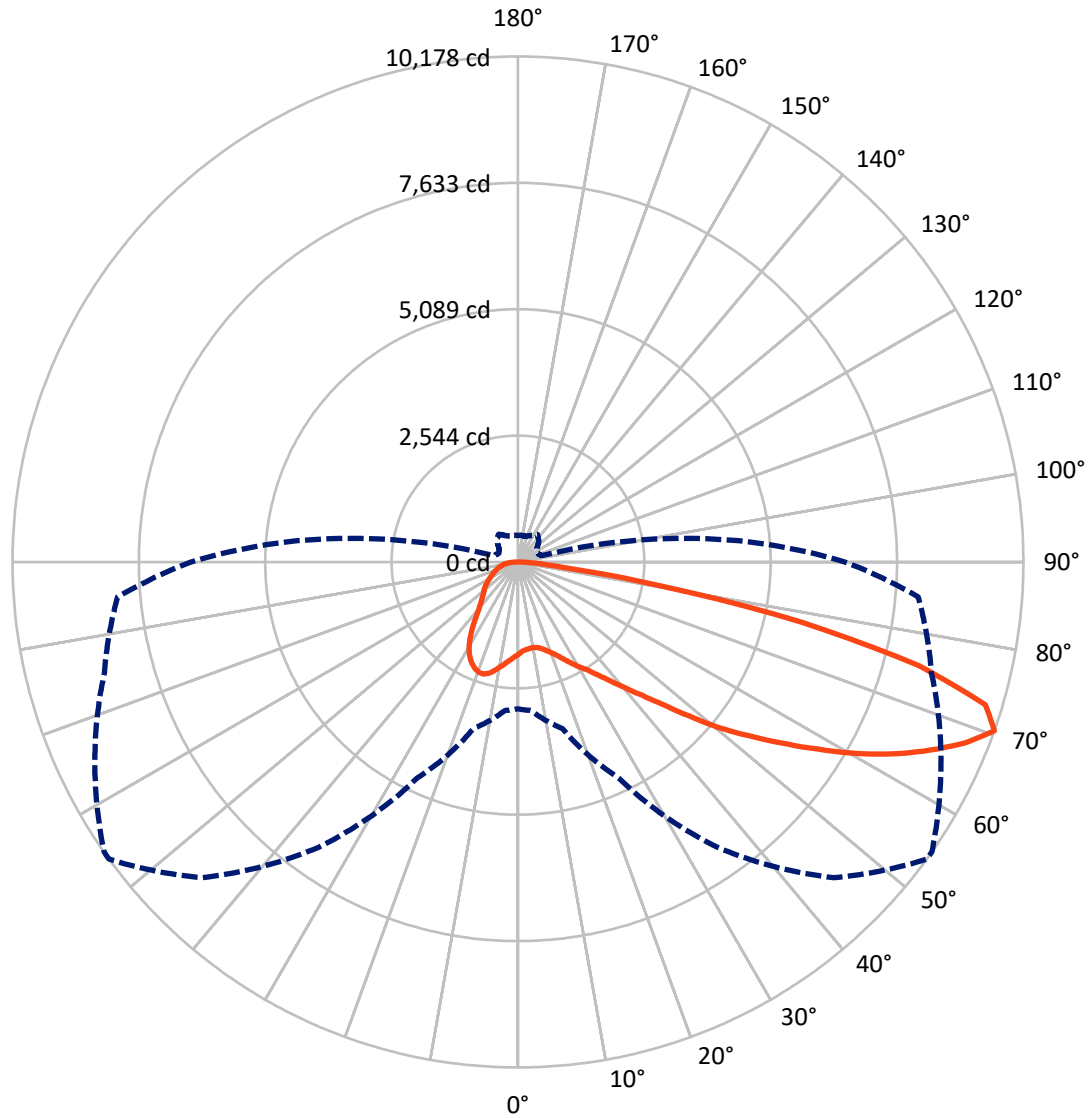
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

REPORT NUMBER: P237105
CATALOG NUMBER: ARCH-L-AF72-120-D-U-T3-7050

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: ARCH-L-AF72-120-D-U-T3-7050

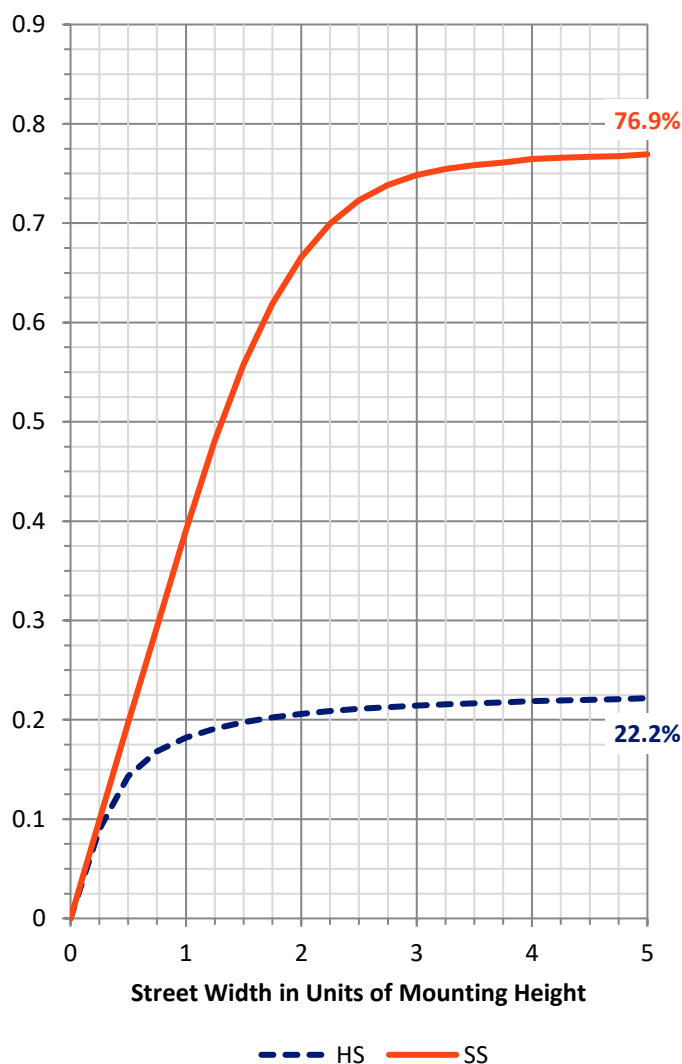
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3761.9	0.0	3761.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	12825.1	0.0	12825.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	16587.0	0.0	16587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	1.1
10°-20°	581.9	3.5
20°-30°	1011.0	6.1
30°-40°	1477.4	8.9
40°-50°	2318.8	14.0
50°-60°	3565.8	21.5
60°-70°	4356.5	26.3
70°-80°	2701.0	16.3
80°-90°	392.4	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°	16587.0	100.0
0°-180°	16587.0	100.0

Coefficient of Utilization



REPORT NUMBER: P237105

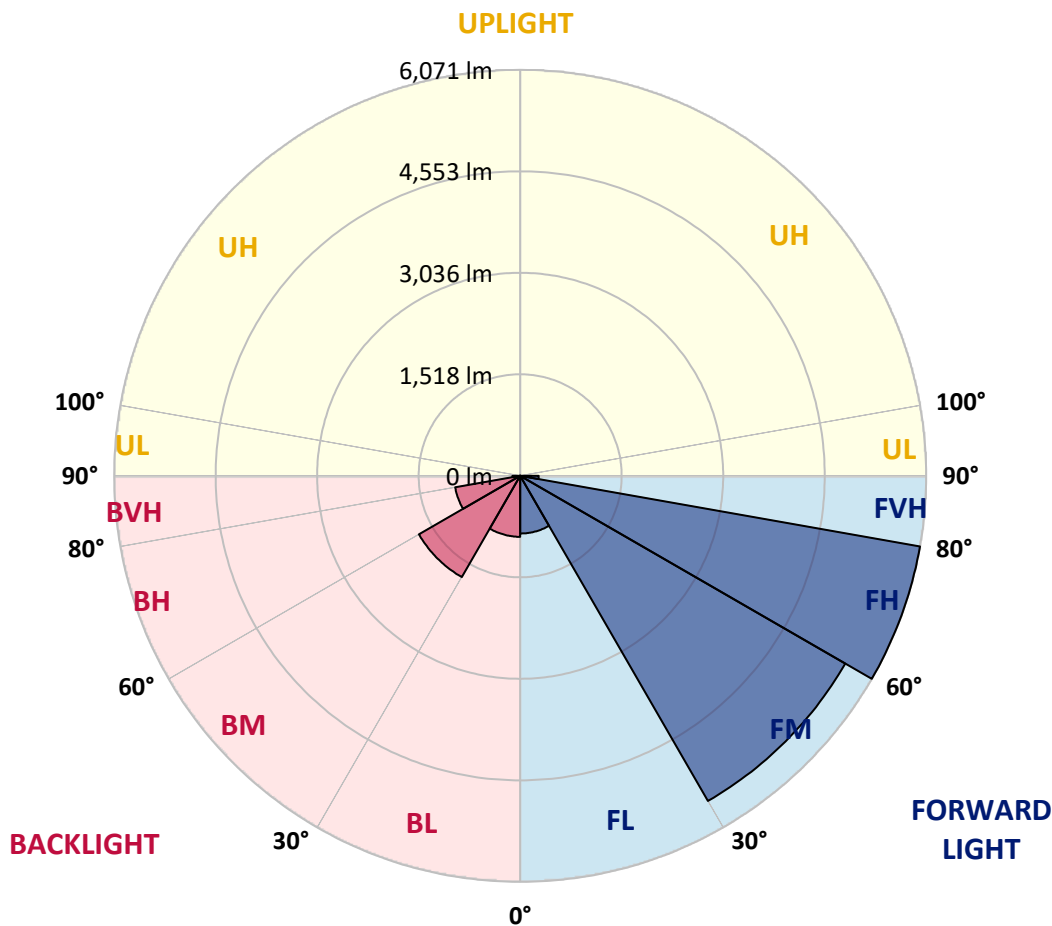
CATALOG NUMBER: ARCH-L-AF72-120-D-U-T3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	863.0	5.2			
FM (30°-60°)	5613.9	33.8			
FH (60°-80°)	6071.1	36.6			G3/7500
FVH (80°-90°)	277.1	1.7			G3/500
BL (0°-30°)	912.0	5.5	B2/1000		
BM (30°-60°)	1748.1	10.5	B2/2500		
BH (60°-80°)	986.5	5.9	B2/1000		G2/1000
BVH (80°-90°)	115.3	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





REPORT NUMBER: P237105

CATALOG NUMBER: ARCH-L-AF72-120-D-U-T3-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8
2.5°	1782.9	1776.8	1776.8	1785.9	1788.9	1798.0	1798.0	1801.1	1810.2	1825.4	1843.6
5°	1728.2	1725.1	1728.2	1740.3	1746.4	1764.6	1770.7	1773.7	1792.0	1816.3	1843.6
7.5°	1673.5	1670.5	1676.6	1694.8	1713.0	1740.3	1755.5	1758.6	1785.9	1819.3	1855.8
10°	1655.3	1652.3	1661.4	1676.6	1694.8	1725.1	1749.4	1752.5	1792.0	1831.5	1883.1
12.5°	1679.6	1676.6	1685.7	1700.9	1719.1	1740.3	1767.7	1770.7	1822.3	1874.0	1928.6
15°	1740.3	1740.3	1743.4	1752.5	1770.7	1788.9	1813.2	1816.3	1870.9	1931.7	1986.4
17.5°	1834.5	1828.4	1828.4	1825.4	1837.5	1846.6	1877.0	1880.0	1937.8	1992.4	2047.1
20°	1949.9	1946.9	1934.7	1919.5	1916.5	1922.6	1952.9	1956.0	2013.7	2059.2	2110.9
22.5°	2089.6	2092.7	2065.3	2031.9	2016.7	2025.8	2053.2	2056.2	2098.7	2138.2	2183.8
25°	2274.9	2265.8	2226.3	2177.7	2147.3	2147.3	2174.7	2174.7	2214.1	2238.4	2268.8
27.5°	2451.0	2432.8	2396.4	2326.5	2277.9	2287.0	2314.4	2314.4	2350.8	2359.9	2375.1
30°	2642.4	2624.2	2578.6	2490.5	2426.8	2420.7	2454.1	2451.0	2499.6	2496.6	2484.5
32.5°	2876.3	2867.1	2791.2	2678.8	2593.8	2572.5	2602.9	2605.9	2636.3	2627.2	2587.7
35°	3204.3	3201.2	3131.4	2934.0	2821.6	2782.1	2800.3	2800.3	2821.6	2797.3	2730.5
37.5°	3617.3	3623.4	3562.7	3271.1	3113.2	3046.3	3049.4	3046.3	3052.4	3025.1	2955.2
40°	4030.4	4045.6	4042.6	3690.2	3489.8	3374.4	3331.8	3325.8	3341.0	3328.8	3262.0
42.5°	4574.1	4610.5	4525.5	4206.6	3981.8	3787.4	3672.0	3656.8	3690.2	3705.4	3641.6
45°	5139.0	5126.9	4993.2	4762.4	4558.9	4309.8	4091.2	4066.9	4091.2	4136.7	4069.9
47.5°	5433.6	5424.5	5391.1	5275.7	5245.3	4959.8	4628.7	4607.5	4561.9	4625.7	4546.7
50°	5919.6	5928.7	5792.0	5779.9	5907.4	5749.5	5236.2	5187.6	5105.6	5157.2	5090.4
52.5°	6271.9	6232.4	6147.4	6253.7	6651.5	6566.5	5807.2	5785.9	5710.0	5697.9	5667.5
55°	6414.6	6414.6	6429.8	6675.8	7243.8	7131.4	6426.8	6448.0	6344.8	6259.7	6299.2
57.5°	6457.2	6475.4	6606.0	7013.0	7939.3	7571.8	7110.2	7140.5	6991.7	6821.6	6946.2
60°	6247.6	6302.3	6615.1	7204.3	8331.1	8039.6	7830.0	7839.1	7623.5	7374.4	7593.1
62.5°	5710.0	5776.8	6335.7	7283.3	8267.4	8519.4	8510.3	8531.6	8237.0	7927.2	8200.5
65°	5050.9	5117.7	5713.0	7061.6	8218.8	8862.7	9133.0	9190.7	8811.0	8394.9	8580.2
67.5°	4082.0	4170.1	4735.0	6314.4	7981.9	9145.1	9716.1	9776.9	9254.5	8637.9	8546.8
70°	2958.3	3000.8	3474.6	4798.8	7016.0	8990.2	10177.8	10174.7	9400.2	8619.7	8091.2
72.5°	1424.5	1457.9	1867.9	2979.5	5017.5	7629.5	9843.7	9901.4	9199.8	8355.4	7049.4
75°	586.2	619.6	756.3	1257.4	2633.3	5041.8	8343.3	8480.0	8355.4	7498.9	5515.6
77.5°	364.5	376.6	443.4	650.0	1202.7	2353.9	5840.6	6025.9	6621.2	6007.6	3641.6
80°	273.4	282.5	331.1	455.6	759.3	868.6	2900.6	3134.4	4012.2	3447.3	1649.2
82.5°	227.8	230.8	264.2	331.1	516.3	498.1	929.4	1035.7	1870.9	1315.1	568.0
85°	212.6	218.7	236.9	236.9	328.0	312.8	385.7	404.0	543.7	449.5	197.4
87.5°	109.3	103.3	209.6	185.3	170.1	151.9	164.0	176.2	203.5	215.6	88.1
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: P237105

CATALOG NUMBER: ARCH-L-AF72-120-D-U-T3-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8
2.5°	1849.7	1858.8	1874.0	1889.2	1907.4	1928.6	1940.8	1956.0	1968.1	1962.1	1959.0
5°	1858.8	1874.0	1907.4	1937.8	1974.2	2016.7	2044.1	2074.4	2098.7	2104.8	2095.7
7.5°	1874.0	1901.3	1946.9	2001.5	2050.1	2104.8	2147.3	2189.8	2220.2	2226.3	2226.3
10°	1910.4	1940.8	2001.5	2074.4	2132.1	2189.8	2238.4	2271.9	2299.2	2311.3	2311.3
12.5°	1962.1	1998.5	2071.4	2159.5	2223.3	2277.9	2305.3	2320.4	2332.6	2344.7	2347.8
15°	2022.8	2062.3	2150.4	2244.5	2311.3	2338.7	2338.7	2335.6	2335.6	2341.7	2347.8
17.5°	2083.5	2126.1	2217.2	2317.4	2359.9	2344.7	2323.5	2314.4	2308.3	2305.3	2314.4
20°	2147.3	2189.8	2281.0	2375.1	2363.0	2299.2	2268.8	2247.6	2229.3	2220.2	2232.4
22.5°	2217.2	2256.7	2350.8	2414.6	2323.5	2226.3	2168.6	2135.2	2104.8	2086.6	2098.7
25°	2299.2	2338.7	2429.8	2426.8	2253.6	2117.0	2025.8	1971.2	1937.8	1919.5	1919.5
27.5°	2396.4	2429.8	2517.9	2396.4	2156.4	1971.2	1837.5	1785.9	1776.8	1761.6	1761.6
30°	2496.6	2523.9	2599.9	2326.5	2022.8	1779.8	1634.0	1609.7	1612.8	1597.6	1600.6
32.5°	2599.9	2627.2	2648.5	2223.3	1849.7	1564.2	1467.0	1448.8	1445.7	1433.6	1421.4
35°	2745.7	2785.1	2654.5	2083.5	1640.1	1385.0	1315.1	1296.9	1278.7	1236.2	1236.2
37.5°	2967.4	3009.9	2639.4	1910.4	1424.5	1245.3	1181.5	1157.2	1126.8	1084.3	1069.1
40°	3271.1	3271.1	2605.9	1716.0	1251.3	1132.9	1072.1	1041.8	1008.4	965.8	956.7
42.5°	3629.5	3544.5	2554.3	1518.6	1123.8	1057.0	1002.3	968.9	929.4	880.8	874.7
45°	4048.6	3817.8	2481.4	1342.5	1029.6	1011.4	978.0	920.3	853.5	801.8	792.7
47.5°	4455.6	4063.8	2411.6	1217.9	950.7	993.2	965.8	868.6	777.5	704.6	695.5
50°	4902.1	4282.5	2329.6	1114.7	889.9	981.0	950.7	792.7	692.5	640.9	634.8
52.5°	5348.6	4504.2	2241.5	1005.3	838.3	956.7	914.2	738.0	689.5	619.6	610.5
55°	5819.3	4762.4	2138.2	883.8	777.5	908.1	865.6	735.0	710.7	619.6	598.3
57.5°	6278.0	5047.9	1971.2	765.4	710.7	835.2	847.4	716.8	665.2	613.5	589.2
60°	6785.2	5351.6	1694.8	665.2	653.0	774.5	823.1	677.3	613.5	595.3	583.1
62.5°	7192.2	5625.0	1324.2	595.3	604.4	725.9	792.7	653.0	592.3	577.1	574.0
65°	7368.3	5631.0	950.7	534.6	555.8	680.3	762.3	631.7	574.0	568.0	564.9
67.5°	7183.1	5321.2	668.2	476.8	504.2	637.8	722.9	610.5	555.8	558.9	552.8
70°	6584.7	4668.2	489.0	422.2	455.6	592.3	680.3	583.1	534.6	540.6	531.5
72.5°	5509.5	3638.6	391.8	376.6	416.1	543.7	637.8	552.8	501.1	504.2	486.0
75°	4069.9	2411.6	328.0	337.1	370.5	498.1	583.1	513.3	464.7	452.5	440.4
77.5°	2420.7	1239.2	270.3	294.6	331.1	443.4	522.4	464.7	425.2	404.0	394.8
80°	999.3	501.1	221.7	249.1	288.5	394.8	461.7	407.0	379.7	358.4	346.2
82.5°	397.9	246.0	176.2	203.5	243.0	343.2	404.0	358.4	331.1	315.9	282.5
85°	151.9	121.5	118.5	142.8	182.2	264.2	334.1	300.7	279.4	239.9	230.8
87.5°	60.7	54.7	54.7	69.9	103.3	167.0	239.9	209.6	218.7	173.1	176.2
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)