

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: P399143

Luminaire Tested: **ARCH-L-PA3-100-740-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399143
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-PA3-100-740-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16730 lumens
Efficiency: N/A
Efficacy: 164.0 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

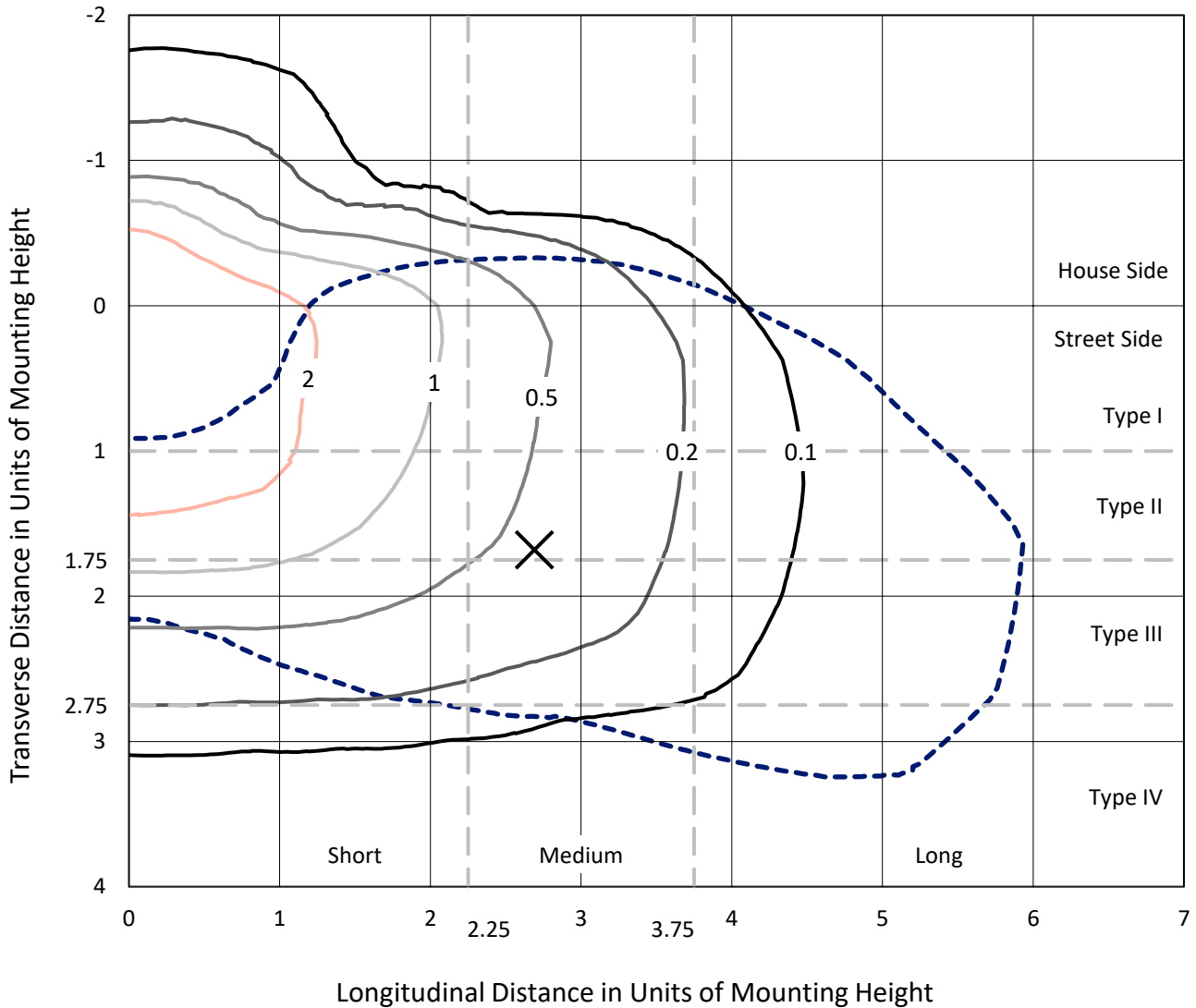
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

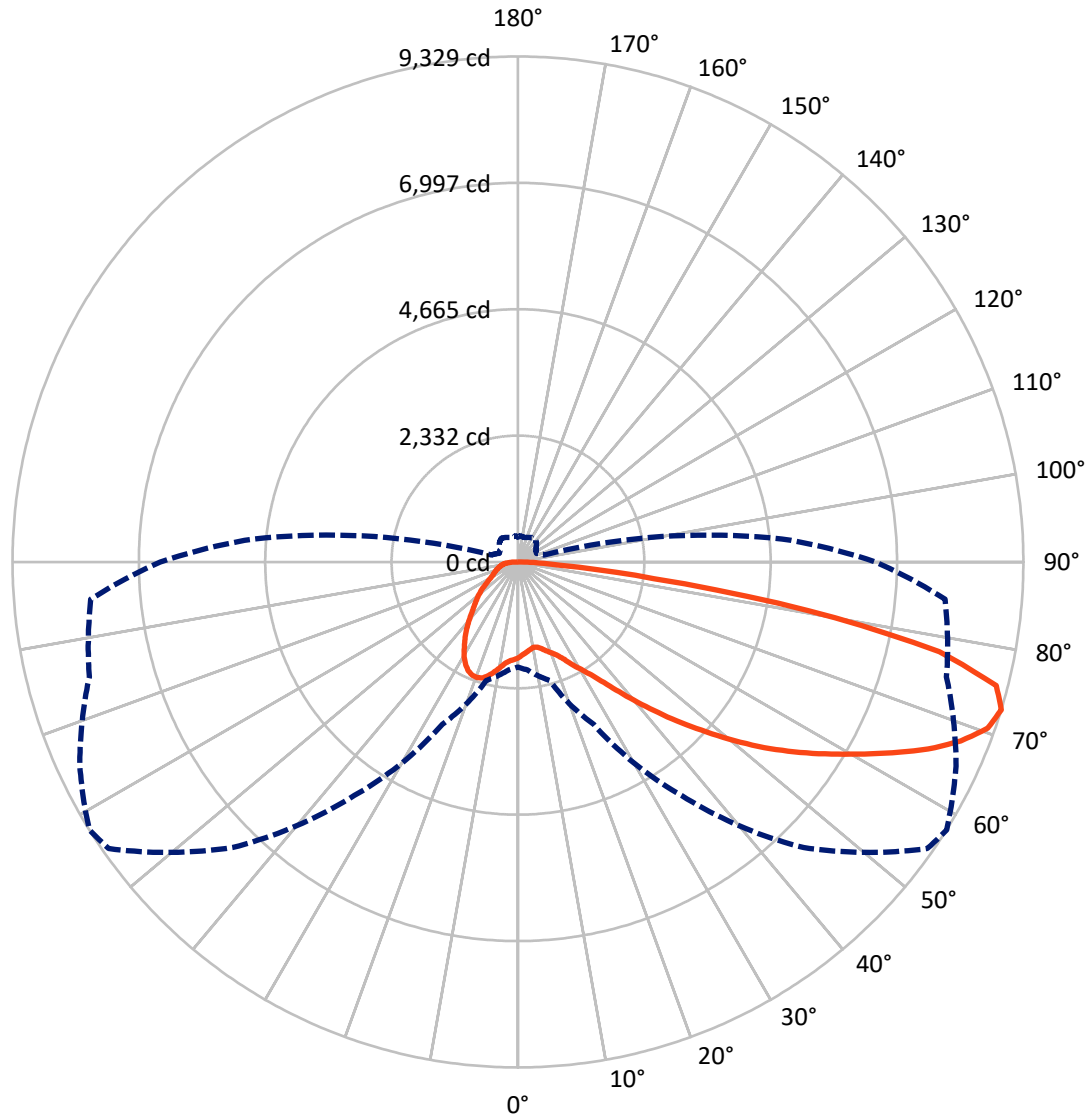
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399143
CATALOG NUMBER: ARCH-L-PA3-100-740-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-PA3-100-740-U-T3

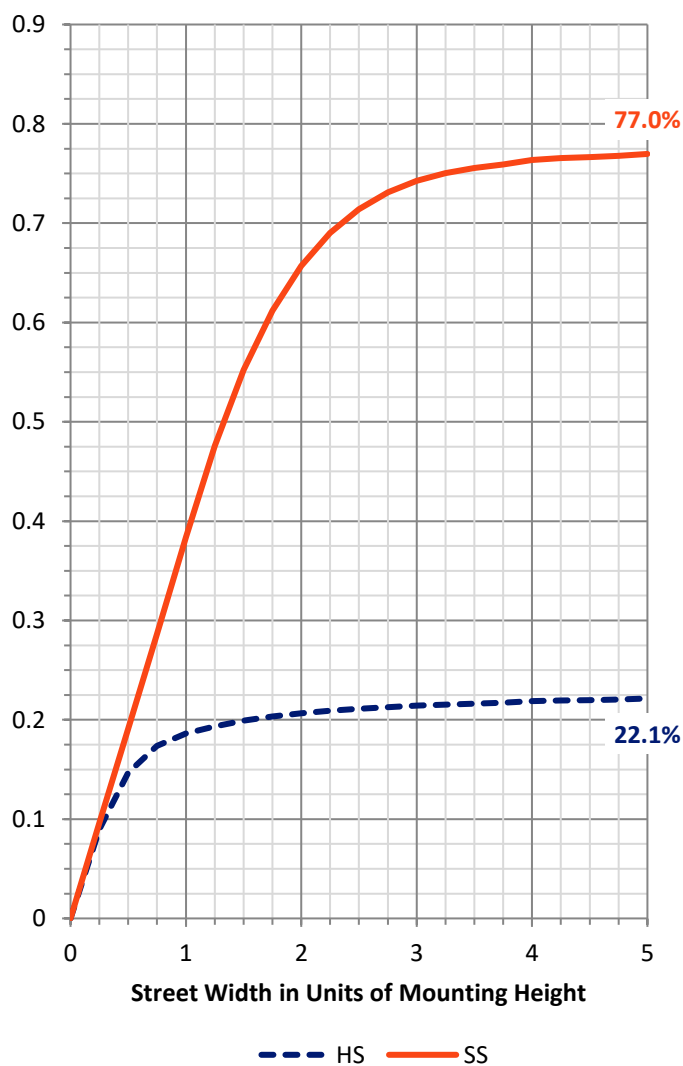
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3794.2	0.0	3794.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	12935.8	0.0	12935.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	16730.0	0.0	16730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	1.0
10°-20°	539.9	3.2
20°-30°	967.1	5.8
30°-40°	1454.7	8.7
40°-50°	2355.7	14.1
50°-60°	3546.1	21.2
60°-70°	4173.4	24.9
70°-80°	2959.3	17.7
80°-90°	563.9	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°	16730.0	100.0
0°-180°	16730.0	100.0

Coefficient of Utilization

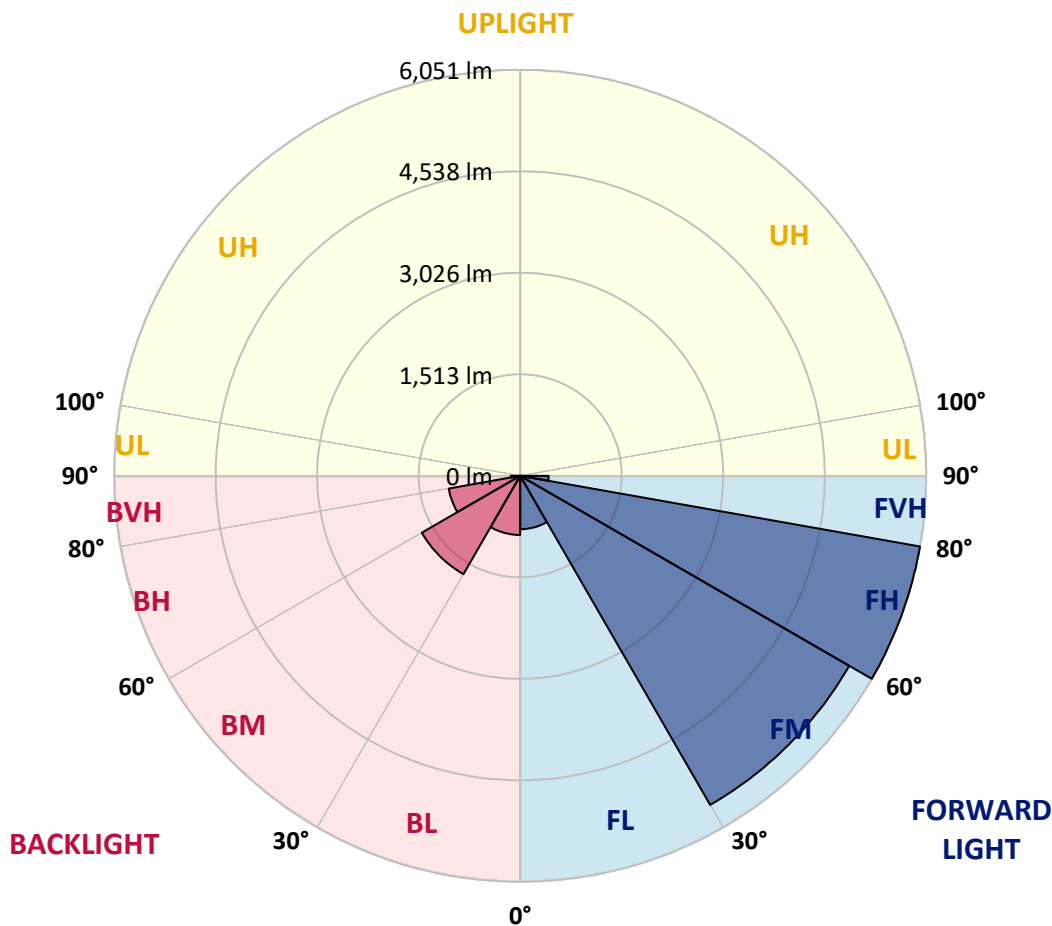


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.6	4.8			
FM (30°-60°)	5663.6	33.9			
FH (60°-80°)	6051.3	36.2			G3/7500
FVH (80°-90°)	425.3	2.5			G3/500
BL (0°-30°)	881.3	5.3	B2/1000		
BM (30°-60°)	1692.9	10.1	B2/2500		
BH (60°-80°)	1081.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	138.5	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: P399143

CATALOG NUMBER: ARCH-L-PA3-100-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1698.4	1689.6	1691.8	1691.8	1700.6	1705.0	1707.2	1713.9	1718.3	1729.3	1744.8
5°	1618.9	1612.3	1614.5	1616.7	1632.1	1647.6	1660.9	1669.7	1682.9	1700.6	1722.7
7.5°	1561.5	1557.1	1559.3	1563.7	1576.9	1594.6	1616.7	1629.9	1649.8	1682.9	1720.5
10°	1519.5	1519.5	1521.7	1530.5	1543.8	1565.9	1583.6	1599.0	1638.8	1698.4	1755.8
12.5°	1486.4	1486.4	1493.0	1510.7	1532.8	1554.8	1596.8	1614.5	1667.5	1749.2	1817.7
15°	1484.2	1486.4	1488.6	1504.0	1528.3	1576.9	1638.8	1665.3	1729.3	1826.5	1906.0
17.5°	1519.5	1521.7	1512.9	1517.3	1546.0	1614.5	1696.2	1727.1	1808.8	1914.8	1996.6
20°	1627.7	1627.7	1601.2	1576.9	1596.8	1671.9	1764.7	1795.6	1886.1	2003.2	2084.9
22.5°	1848.6	1859.6	1797.8	1744.8	1713.9	1755.8	1839.8	1872.9	1974.5	2100.4	2182.1
25°	2115.8	2126.9	2042.9	1967.8	1910.4	1903.8	1959.0	1994.4	2078.3	2208.6	2277.1
27.5°	2374.2	2354.4	2277.1	2206.4	2133.5	2073.9	2115.8	2146.7	2243.9	2343.3	2385.3
30°	2577.4	2562.0	2486.9	2436.1	2367.6	2290.3	2266.0	2299.1	2378.6	2471.4	2493.5
32.5°	2802.7	2791.7	2716.6	2650.3	2592.9	2520.0	2467.0	2482.4	2526.6	2592.9	2606.1
35°	3089.8	3114.1	3034.6	2899.9	2835.8	2765.1	2727.6	2732.0	2765.1	2807.1	2785.0
37.5°	3392.4	3421.1	3425.5	3213.5	3127.4	3063.3	3023.6	3039.0	3078.8	3107.5	3039.0
40°	3953.4	3924.7	3809.8	3653.0	3520.5	3458.6	3403.4	3401.2	3429.9	3480.7	3357.0
42.5°	4697.7	4671.2	4439.3	4236.1	4026.3	3955.6	3847.4	3801.0	3814.2	3878.3	3706.0
45°	5411.0	5400.0	5214.5	4978.2	4726.4	4589.4	4342.1	4229.4	4218.4	4269.2	4063.8
47.5°	6044.9	5996.3	5861.6	5678.3	5651.8	5294.0	4839.0	4686.6	4633.6	4662.3	4432.6
50°	6722.9	6557.3	6371.8	6259.1	6451.3	6117.8	5340.4	5181.3	5051.0	5070.9	4832.4
52.5°	7082.9	6804.7	6683.2	6716.3	6974.7	6846.6	5885.9	5691.5	5481.7	5510.4	5229.9
55°	6773.7	6771.5	6824.5	7029.9	7389.9	7241.9	6404.9	6186.2	5956.6	5963.2	5687.1
57.5°	6349.7	6435.8	6709.7	7162.4	7904.5	7657.2	6915.1	6683.2	6473.4	6440.2	6206.1
60°	5963.2	6058.1	6455.7	7140.4	8083.4	8037.0	7401.0	7197.8	7027.7	6930.5	6751.6
62.5°	5375.7	5446.4	6009.6	6999.0	7933.2	8310.9	7893.5	7754.3	7626.2	7425.3	7339.1
65°	4684.4	4708.7	5302.8	6533.0	7745.5	8416.9	8383.8	8321.9	8198.3	7902.3	7920.0
67.5°	3935.7	3984.3	4505.5	5788.7	7334.7	8368.3	8763.7	8814.5	8668.7	8224.8	8291.0
70°	3138.4	3198.0	3593.4	4759.5	6636.8	8158.5	9114.8	9196.5	8916.1	8330.8	8359.5
72.5°	1941.3	1998.8	2263.8	3306.3	5260.8	7454.0	9223.1	9329.1	8922.7	8189.4	7913.4
75°	671.4	678.0	885.6	1585.8	3122.9	5627.5	8869.7	9119.2	8642.2	7674.8	6886.4
77.5°	307.0	318.0	393.1	653.7	1384.8	3036.8	7323.7	7948.7	7789.7	6870.9	5300.6
80°	212.0	216.4	271.7	390.9	799.5	1069.0	4622.6	5437.5	5715.8	5320.5	3396.8
82.5°	159.0	163.4	209.8	265.0	576.4	519.0	1760.2	2526.6	3140.6	3083.2	1420.1
85°	152.4	150.2	163.4	176.7	384.3	309.2	569.8	781.8	1225.8	1049.1	357.8
87.5°	66.3	72.9	167.9	99.4	201.0	143.6	247.4	289.3	373.3	324.7	128.1
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: P399143
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1751.4	1755.8	1769.1	1789.0	1800.0	1822.1	1837.5	1846.4	1853.0	1855.2	1855.2
5°	1735.9	1744.8	1773.5	1806.6	1837.5	1883.9	1925.9	1950.2	1967.8	1974.5	1976.7
7.5°	1740.4	1762.5	1804.4	1853.0	1892.8	1952.4	2003.2	2051.8	2091.5	2107.0	2107.0
10°	1782.3	1813.2	1870.7	1934.7	1985.5	2047.4	2100.4	2142.3	2188.7	2215.2	2219.6
12.5°	1846.4	1883.9	1959.0	2029.7	2087.1	2135.7	2184.3	2215.2	2237.3	2257.2	2261.6
15°	1936.9	1983.3	2058.4	2131.3	2182.1	2213.0	2226.3	2226.3	2224.0	2226.3	2230.7
17.5°	2027.5	2071.7	2146.7	2219.6	2243.9	2226.3	2210.8	2206.4	2204.2	2199.8	2202.0
20°	2115.8	2157.8	2221.8	2277.1	2257.2	2195.3	2175.5	2173.2	2166.6	2162.2	2157.8
22.5°	2204.2	2235.1	2288.1	2308.0	2228.5	2140.1	2115.8	2102.6	2093.7	2082.7	2071.7
25°	2305.8	2314.6	2354.4	2323.4	2157.8	2038.5	2003.2	1983.3	1974.5	1963.4	1954.6
27.5°	2400.7	2400.7	2407.4	2299.1	2054.0	1903.8	1850.8	1815.5	1813.2	1811.0	1808.8
30°	2486.9	2475.8	2453.7	2226.3	1919.3	1738.2	1658.6	1623.3	1636.6	1647.6	1649.8
32.5°	2588.5	2566.4	2504.5	2126.9	1758.0	1552.6	1455.5	1440.0	1455.5	1468.7	1459.9
35°	2747.5	2707.7	2557.5	2012.0	1603.4	1382.6	1289.8	1267.7	1263.3	1261.1	1243.4
37.5°	2975.0	2906.5	2599.5	1888.3	1451.0	1232.4	1163.9	1117.5	1075.6	1031.4	1024.8
40°	3253.2	3136.2	2628.2	1747.0	1289.8	1106.5	1033.6	974.0	903.3	826.0	817.2
42.5°	3558.0	3383.6	2641.5	1590.2	1148.5	1002.7	912.1	837.1	757.5	697.9	686.9
45°	3887.1	3650.8	2630.4	1440.0	1033.6	914.4	812.8	731.0	667.0	625.0	616.2
47.5°	4207.4	3957.8	2599.5	1320.7	945.3	839.3	735.5	660.4	611.8	565.4	554.4
50°	4618.2	4251.5	2562.0	1228.0	848.1	764.2	686.9	607.4	552.1	530.1	525.6
52.5°	5073.1	4545.3	2517.8	1110.9	753.1	704.5	655.9	585.3	567.6	525.6	519.0
55°	5565.6	4894.2	2509.0	962.9	669.2	662.6	625.0	605.2	609.6	525.6	514.6
57.5°	6084.7	5267.5	2528.8	815.0	600.7	625.0	638.3	622.8	616.2	536.7	514.6
60°	6625.8	5627.5	2469.2	678.0	547.7	594.1	653.7	614.0	565.4	532.3	516.8
62.5°	7151.4	5930.1	2210.8	580.9	508.0	585.3	644.9	580.9	525.6	525.6	519.0
65°	7533.5	6064.8	1729.3	510.2	481.5	574.2	629.4	558.8	514.6	530.1	521.2
67.5°	7577.7	5925.6	1161.7	455.0	459.4	554.4	594.1	538.9	503.6	543.3	530.1
70°	7306.0	5563.4	711.2	413.0	430.7	519.0	563.2	519.0	488.1	532.3	512.4
72.5°	6601.5	4887.6	501.3	377.7	399.8	485.9	534.5	501.3	466.0	481.5	461.6
75°	5415.5	3787.7	397.5	344.5	368.8	455.0	510.2	474.8	439.5	432.9	419.6
77.5°	3836.3	2427.2	320.2	318.0	335.7	417.4	477.1	443.9	408.6	395.3	386.5
80°	2206.4	1190.4	276.1	287.1	304.8	379.9	437.3	408.6	375.5	355.6	342.3
82.5°	843.7	415.2	242.9	249.6	269.4	340.1	397.5	373.3	340.1	357.8	300.4
85°	273.9	227.5	198.8	205.4	225.3	282.7	351.2	331.3	293.7	260.6	240.7
87.5°	121.5	123.7	106.0	117.1	141.3	187.7	256.2	242.9	214.2	178.9	172.3
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)