

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: P265603

Luminaire Tested: **ARCH-L-AF72-120-D-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-120-D-U-T3-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14411.1 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

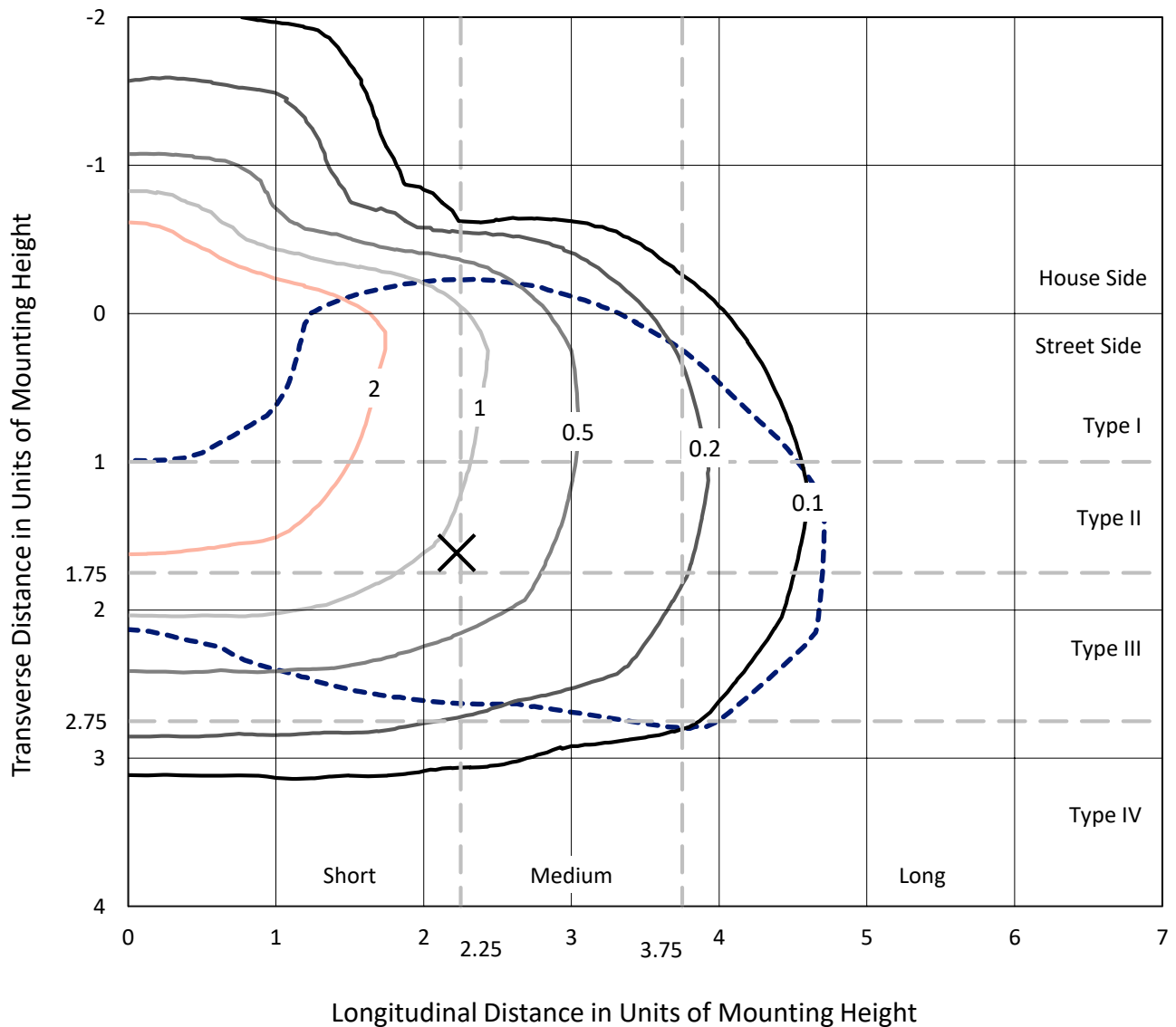
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: ARCH-L-AF72-120-D-U-T3-7027

Iso-Footcandle Lines of Horizontal Illumination

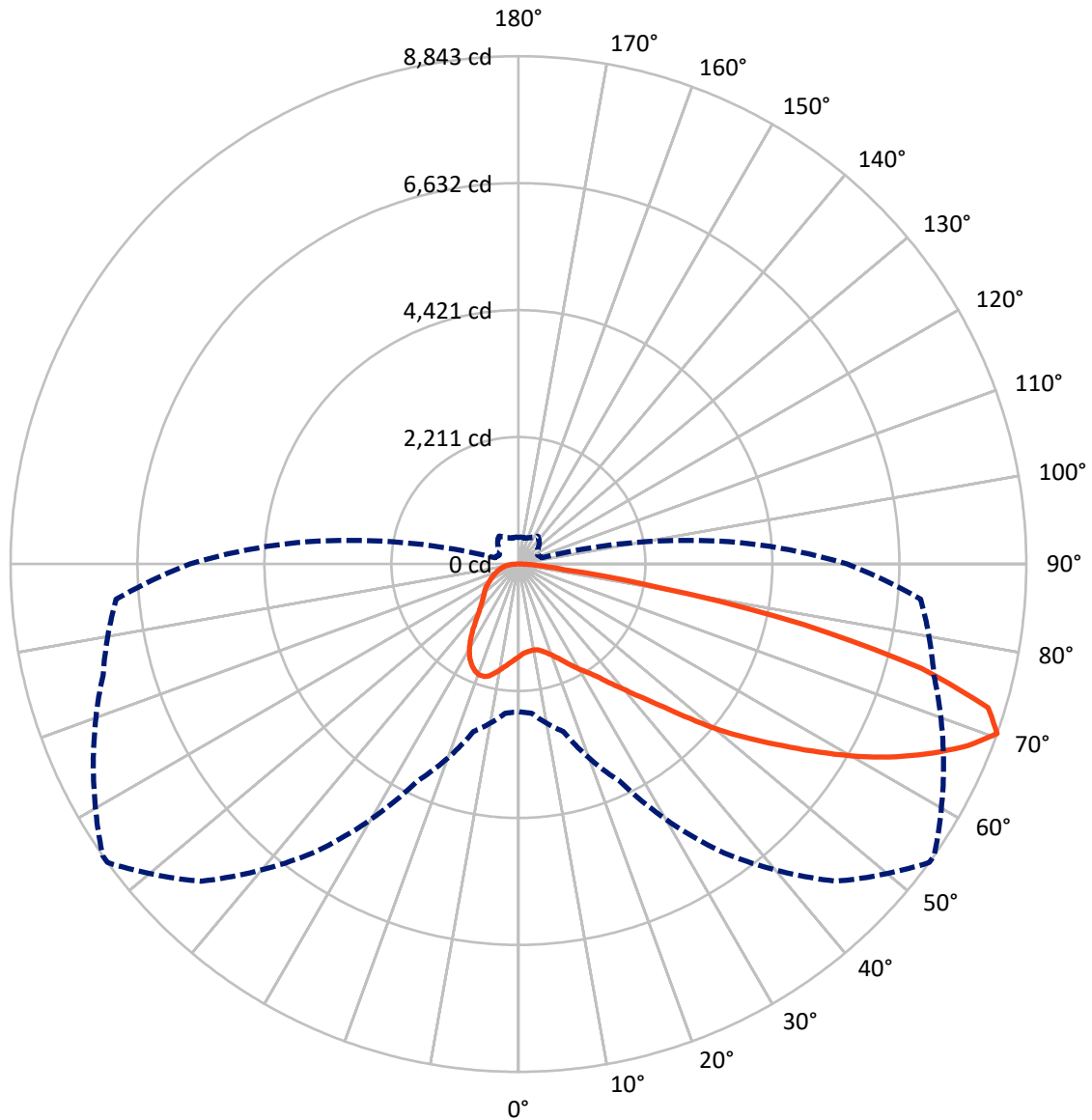
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P265603
CATALOG NUMBER: ARCH-L-AF72-120-D-U-T3-7027

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-T3-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3268.4	0.0	3268.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11142.7	0.0	11142.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	14411.1	0.0	14411.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	1.1
10°-20°	505.6	3.5
20°-30°	878.4	6.1
30°-40°	1283.6	8.9
40°-50°	2014.6	14.0
50°-60°	3098.0	21.5
60°-70°	3785.0	26.3
70°-80°	2346.7	16.3
80°-90°	340.9	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°	14411.1	100.0
0°-180°	14411.1	100.0

Coefficient of Utilization



REPORT NUMBER: P265603

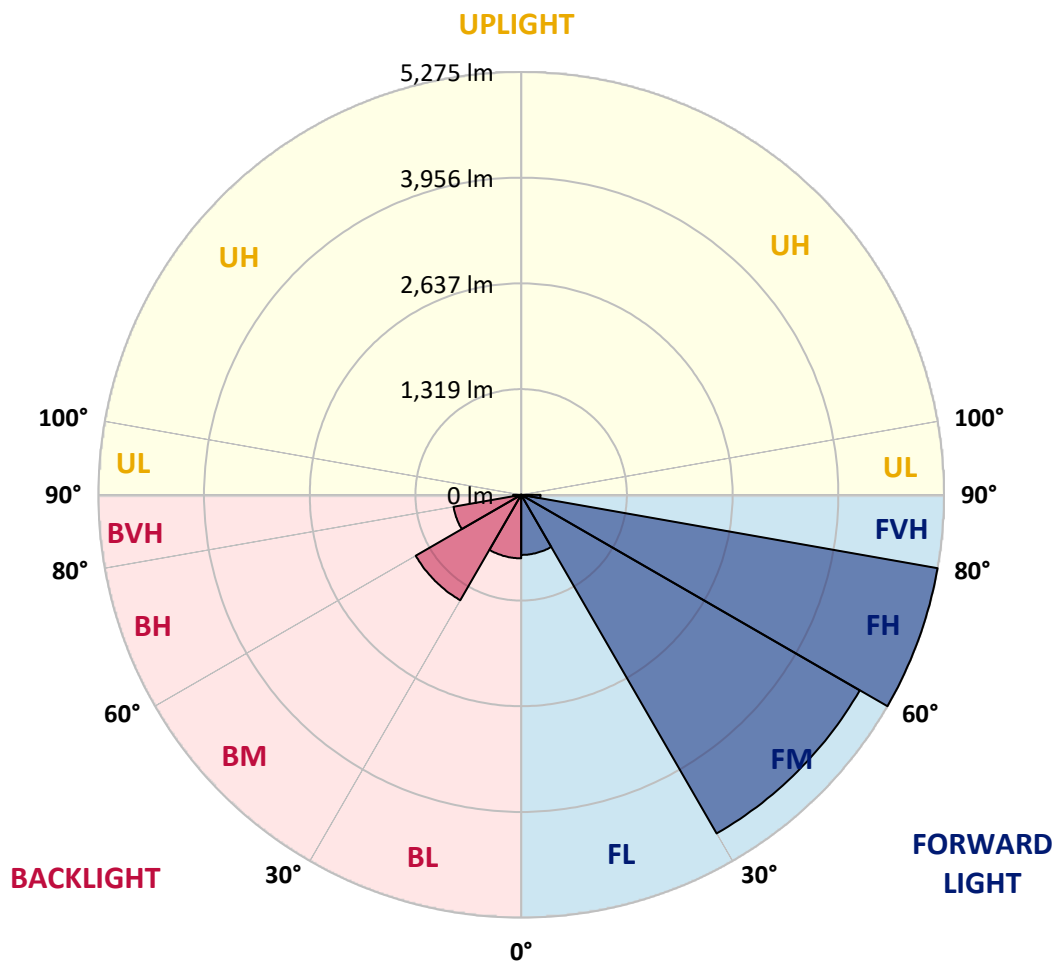
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	749.8	5.2			
FM	(30°-60°)	4877.5	33.8			
FH	(60°-80°)	5274.7	36.6			G3/7500
FVH	(80°-90°)	240.7	1.7			G3/500
BL	(0°-30°)	792.4	5.5	B2/1000		
BM	(30°-60°)	1518.8	10.5	B2/2500		
BH	(60°-80°)	857.1	5.9	B2/1000		G2/1000
BVH	(80°-90°)	100.2	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: P265603

CATALOG NUMBER: ARCH-L-AF72-120-D-U-T3-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1612.3	1612.3	1612.3	1612.3	1612.3	1612.3	1612.3	1612.3	1612.3	1612.3	1612.3
2.5°	1548.9	1543.6	1543.6	1551.6	1554.2	1562.2	1562.2	1564.8	1572.8	1585.9	1601.8
5°	1501.4	1498.8	1501.4	1512.0	1517.2	1533.1	1538.4	1541.0	1556.9	1578.1	1601.8
7.5°	1453.9	1451.3	1456.6	1472.4	1488.3	1512.0	1525.2	1527.8	1551.6	1580.7	1612.3
10°	1438.1	1435.5	1443.4	1456.6	1472.4	1498.8	1519.9	1522.5	1556.9	1591.2	1636.1
12.5°	1459.2	1456.6	1464.5	1477.7	1493.5	1512.0	1535.8	1538.4	1583.4	1628.2	1675.7
15°	1512.0	1512.0	1514.7	1522.5	1538.4	1554.2	1575.4	1578.1	1625.6	1678.3	1725.7
17.5°	1593.9	1588.6	1588.6	1585.9	1596.5	1604.5	1630.9	1633.4	1683.6	1731.0	1778.6
20°	1694.2	1691.5	1680.9	1667.8	1665.1	1670.4	1696.8	1699.5	1749.4	1789.2	1834.0
22.5°	1815.6	1818.1	1794.4	1765.3	1752.1	1760.0	1783.9	1786.5	1823.4	1857.8	1897.3
25°	1976.5	1968.5	1934.2	1892.0	1865.6	1865.6	1889.3	1889.3	1923.7	1944.8	1971.2
27.5°	2129.5	2113.7	2082.0	2021.4	1979.1	1987.1	2010.8	2010.8	2042.4	2050.3	2063.5
30°	2295.8	2279.9	2240.4	2163.7	2108.4	2103.1	2132.1	2129.5	2171.7	2169.0	2158.5
32.5°	2498.9	2491.0	2425.1	2327.4	2253.6	2235.1	2261.5	2264.1	2290.5	2282.6	2248.3
35°	2783.9	2781.3	2720.5	2549.1	2451.5	2417.2	2433.0	2433.0	2451.5	2430.4	2372.2
37.5°	3142.8	3148.1	3095.3	2842.0	2704.7	2646.8	2649.3	2646.8	2651.9	2628.3	2567.5
40°	3501.8	3514.9	3512.3	3206.1	3032.0	2931.7	2894.8	2889.5	2902.8	2892.2	2834.2
42.5°	3974.0	4005.7	3931.8	3654.8	3459.5	3290.6	3190.3	3177.1	3206.1	3219.3	3163.9
45°	4464.8	4454.2	4338.2	4137.7	3960.8	3744.4	3554.5	3533.4	3554.5	3594.1	3536.0
47.5°	4720.9	4712.9	4683.9	4583.6	4557.2	4309.2	4021.5	4003.0	3963.5	4018.8	3950.2
50°	5143.1	5150.9	5032.1	5021.6	5132.5	4995.3	4549.2	4507.1	4435.8	4480.7	4422.6
52.5°	5449.1	5414.9	5341.0	5433.3	5778.9	5705.0	5045.4	5026.9	4961.0	4950.4	4924.0
55°	5573.2	5573.2	5586.4	5800.0	6293.5	6195.9	5583.8	5602.2	5512.4	5438.6	5472.8
57.5°	5610.2	5625.9	5739.5	6093.1	6897.8	6578.6	6177.5	6203.9	6074.5	5926.7	6035.0
60°	5428.0	5475.4	5747.4	6259.2	7238.3	6985.0	6802.9	6810.8	6623.5	6407.0	6597.1
62.5°	4961.0	5019.0	5504.5	6327.8	7182.8	7401.9	7393.9	7412.5	7156.4	6887.2	7124.7
65°	4388.3	4446.4	4963.6	6135.2	7140.5	7700.0	7934.9	7985.0	7655.1	7293.7	7454.7
67.5°	3546.6	3623.0	4113.9	5486.0	6934.7	7945.5	8441.6	8494.4	8040.4	7504.8	7425.6
70°	2570.2	2607.2	3018.8	4169.4	6095.7	7810.9	8842.6	8840.0	8167.1	7488.9	7029.7
72.5°	1237.7	1266.6	1622.9	2588.6	4359.4	6628.7	8552.4	8602.4	7992.9	7259.4	6124.6
75°	509.2	538.4	657.1	1092.5	2287.9	4380.4	7248.9	7367.5	7259.4	6515.1	4792.1
77.5°	316.7	327.3	385.3	564.8	1045.0	2045.1	5074.4	5235.4	5752.6	5219.5	3163.9
80°	237.5	245.3	287.6	395.9	659.6	754.7	2520.0	2723.2	3485.9	2995.0	1432.8
82.5°	197.8	200.5	229.5	287.6	448.7	432.8	807.4	899.8	1625.6	1142.6	493.4
85°	184.7	190.0	205.8	205.8	285.0	271.7	335.2	351.0	472.4	390.6	171.5
87.5°	95.0	89.7	182.0	160.9	147.9	132.0	142.6	153.0	176.7	187.3	76.5
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: P265603

CATALOG NUMBER: ARCH-L-AF72-120-D-U-T3-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1612.3	1612.3	1612.3	1612.3	1612.3	1612.3	1612.3	1612.3	1612.3	1612.3	1612.3
2.5°	1607.1	1615.0	1628.2	1641.4	1657.2	1675.7	1686.2	1699.5	1710.0	1704.7	1702.0
5°	1615.0	1628.2	1657.2	1683.6	1715.3	1752.1	1775.9	1802.3	1823.4	1828.7	1820.8
7.5°	1628.2	1652.0	1691.5	1738.9	1781.2	1828.7	1865.6	1902.6	1929.0	1934.2	1934.2
10°	1659.8	1686.2	1738.9	1802.3	1852.5	1902.6	1944.8	1973.8	1997.7	2008.2	2008.2
12.5°	1704.7	1736.3	1799.7	1876.2	1931.6	1979.1	2002.9	2016.1	2026.5	2037.1	2039.8
15°	1757.4	1791.8	1868.3	1950.1	2008.2	2031.8	2031.8	2029.2	2029.2	2034.5	2039.8
17.5°	1810.3	1847.2	1926.3	2013.5	2050.3	2037.1	2018.8	2010.8	2005.5	2002.9	2010.8
20°	1865.6	1902.6	1981.8	2063.5	2052.9	1997.7	1971.2	1952.7	1936.8	1929.0	1939.5
22.5°	1926.3	1960.6	2042.4	2097.8	2018.8	1934.2	1884.1	1855.1	1828.7	1812.9	1823.4
25°	1997.7	2031.8	2111.0	2108.4	1957.9	1839.3	1760.0	1712.6	1683.6	1667.8	1667.8
27.5°	2082.0	2111.0	2187.6	2082.0	1873.5	1712.6	1596.5	1551.6	1543.6	1530.5	1530.5
30°	2169.0	2192.9	2258.8	2021.4	1757.4	1546.3	1419.7	1398.7	1401.1	1388.1	1390.7
32.5°	2258.8	2282.6	2301.1	1931.6	1607.1	1359.0	1274.5	1258.7	1256.1	1245.5	1235.0
35°	2385.4	2419.8	2306.3	1810.3	1424.9	1203.3	1142.6	1126.7	1110.9	1074.1	1074.1
37.5°	2578.1	2615.1	2293.2	1659.8	1237.7	1081.9	1026.6	1005.5	979.1	942.1	928.8
40°	2842.0	2842.0	2264.1	1490.9	1087.2	984.3	931.5	905.1	876.0	839.1	831.2
42.5°	3153.4	3079.5	2219.3	1319.4	976.4	918.2	870.7	841.8	807.4	765.3	760.0
45°	3517.6	3317.0	2155.9	1166.4	894.5	878.7	849.6	799.5	741.6	696.6	688.7
47.5°	3871.2	3530.7	2095.1	1058.2	825.9	862.9	839.1	754.7	675.5	612.3	604.3
50°	4259.0	3720.7	2024.1	968.5	773.3	852.3	825.9	688.7	601.7	556.8	551.5
52.5°	4646.9	3913.3	1947.4	873.4	728.3	831.2	794.3	641.2	599.0	538.4	530.4
55°	5055.9	4137.7	1857.8	768.0	675.5	789.0	752.1	638.5	617.5	538.4	519.8
57.5°	5454.4	4385.6	1712.6	664.9	617.5	725.7	736.3	622.7	577.9	533.1	511.9
60°	5895.0	4649.5	1472.4	577.9	567.3	672.9	715.1	588.5	533.1	517.2	506.6
62.5°	6248.7	4887.0	1150.5	517.2	525.1	630.7	688.7	567.3	514.5	501.3	498.6
65°	6401.7	4892.3	825.9	464.5	482.8	591.1	662.3	548.9	498.6	493.4	490.8
67.5°	6240.7	4623.1	580.6	414.3	438.1	554.2	628.0	530.4	482.8	485.5	480.2
70°	5720.9	4055.8	424.9	366.8	395.9	514.5	591.1	506.6	464.5	469.8	461.8
72.5°	4786.8	3161.2	340.4	327.3	361.5	472.4	554.2	480.2	435.4	438.1	422.3
75°	3536.0	2095.1	285.0	292.8	322.0	432.8	506.6	446.0	403.8	393.2	382.6
77.5°	2103.1	1076.6	234.8	255.9	287.6	385.3	453.9	403.8	369.5	351.0	343.1
80°	868.1	435.4	192.6	216.4	250.6	343.1	401.2	353.7	329.9	311.4	300.8
82.5°	345.7	213.7	153.0	176.7	211.1	298.1	351.0	311.4	287.6	274.4	245.3
85°	132.0	105.6	102.9	124.1	158.3	229.5	290.2	261.2	242.8	208.4	200.5
87.5°	52.8	47.5	47.5	60.6	89.7	145.2	208.4	182.0	190.0	150.3	153.0
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)