

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: P265596

Luminaire Tested: **ARCH-L-AF72-110-D-U-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-110-D-U-T4W-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13314.8 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
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: 28.75 FT

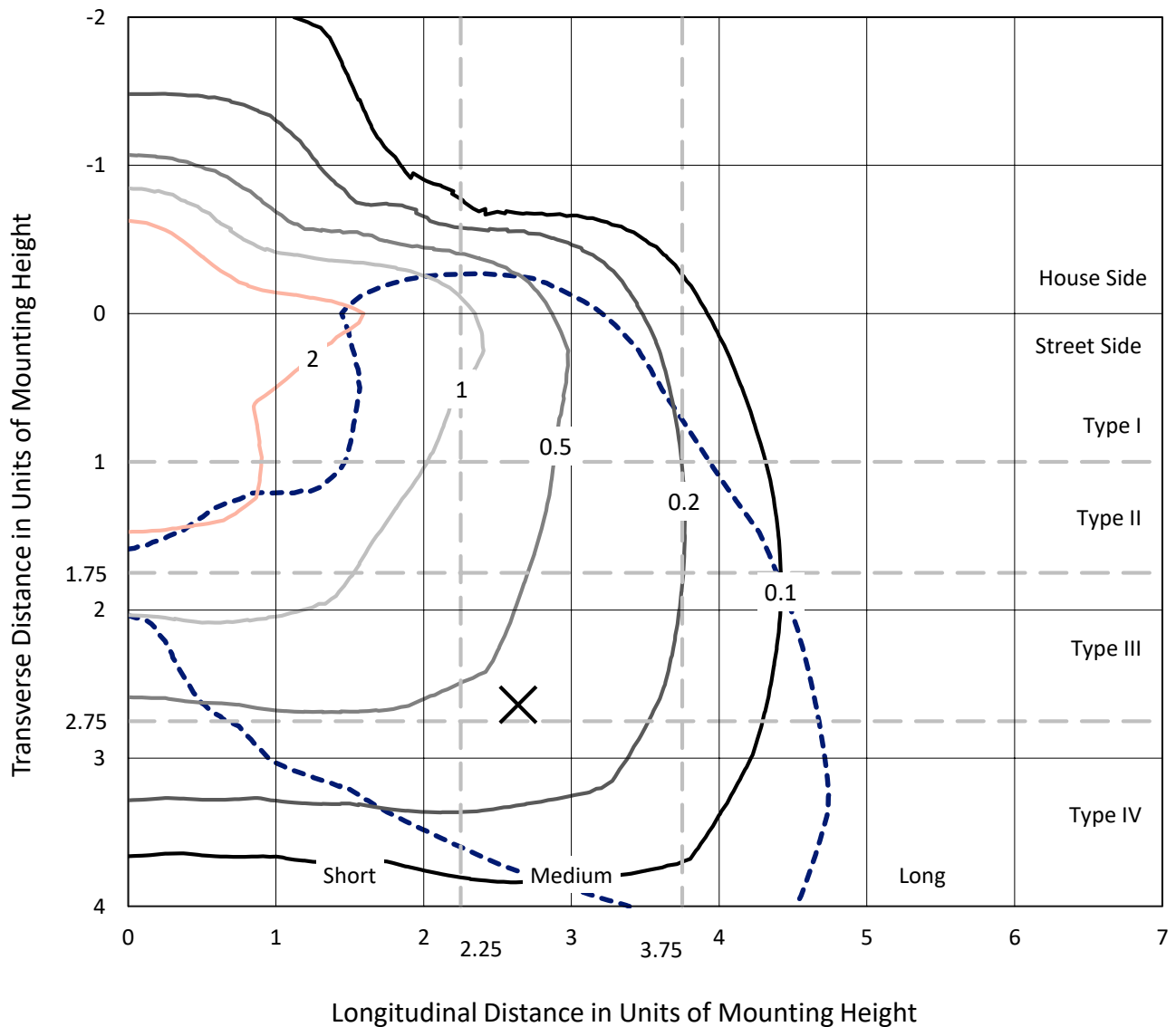


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

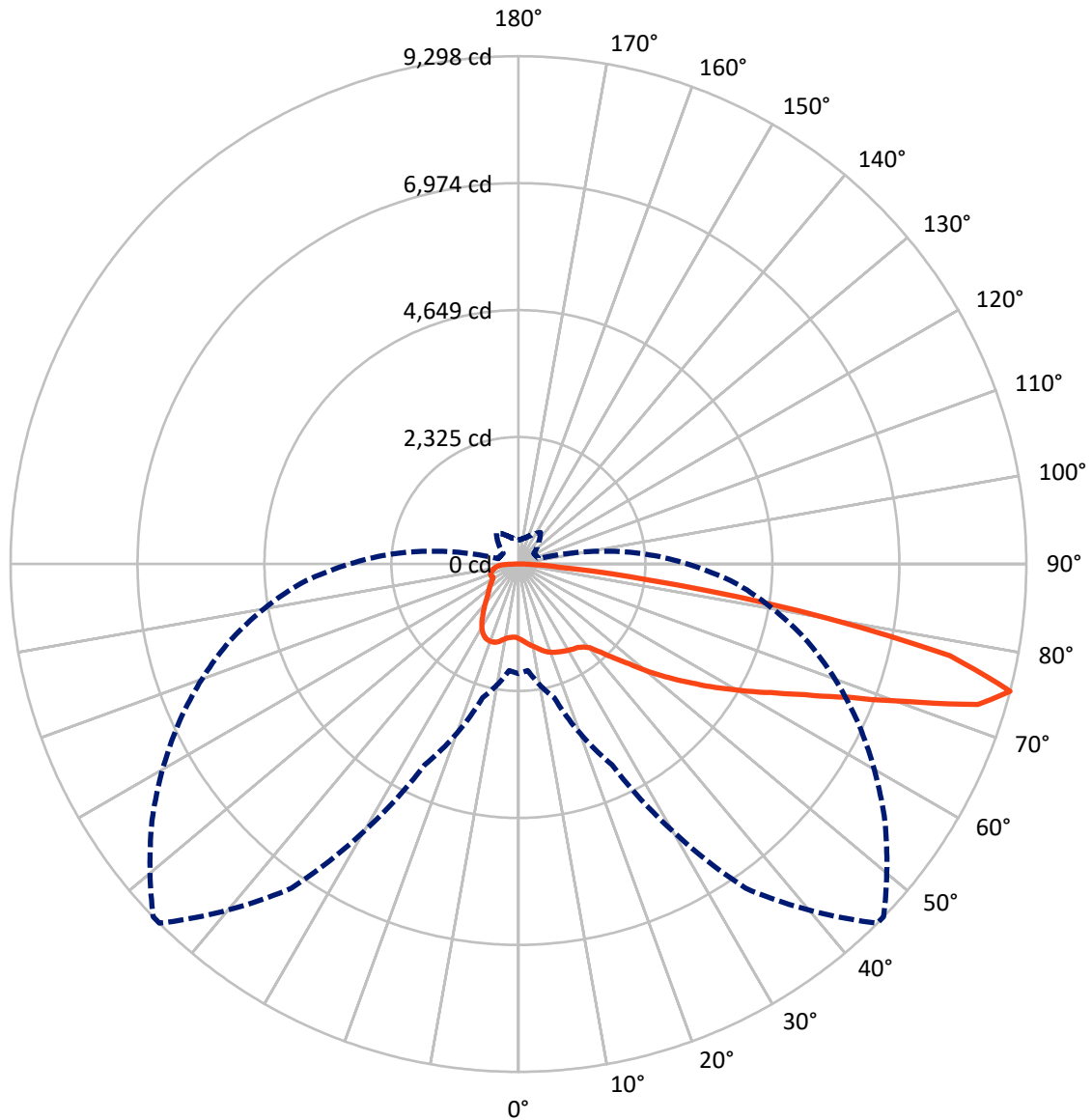


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3084.5	0.0	3084.5
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	10230.3	0.0	10230.3
	% Fixture	76.8	0.0	76.8
Total	Lumens	13314.8	0.0	13314.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.0
10°-20°	438.3	3.3
20°-30°	752.2	5.6
30°-40°	1052.0	7.9
40°-50°	1543.2	11.6
50°-60°	2403.9	18.1
60°-70°	3459.1	26.0
70°-80°	3013.2	22.6
80°-90°	517.5	3.9
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°	13314.8	100.0
0°-180°	13314.8	100.0



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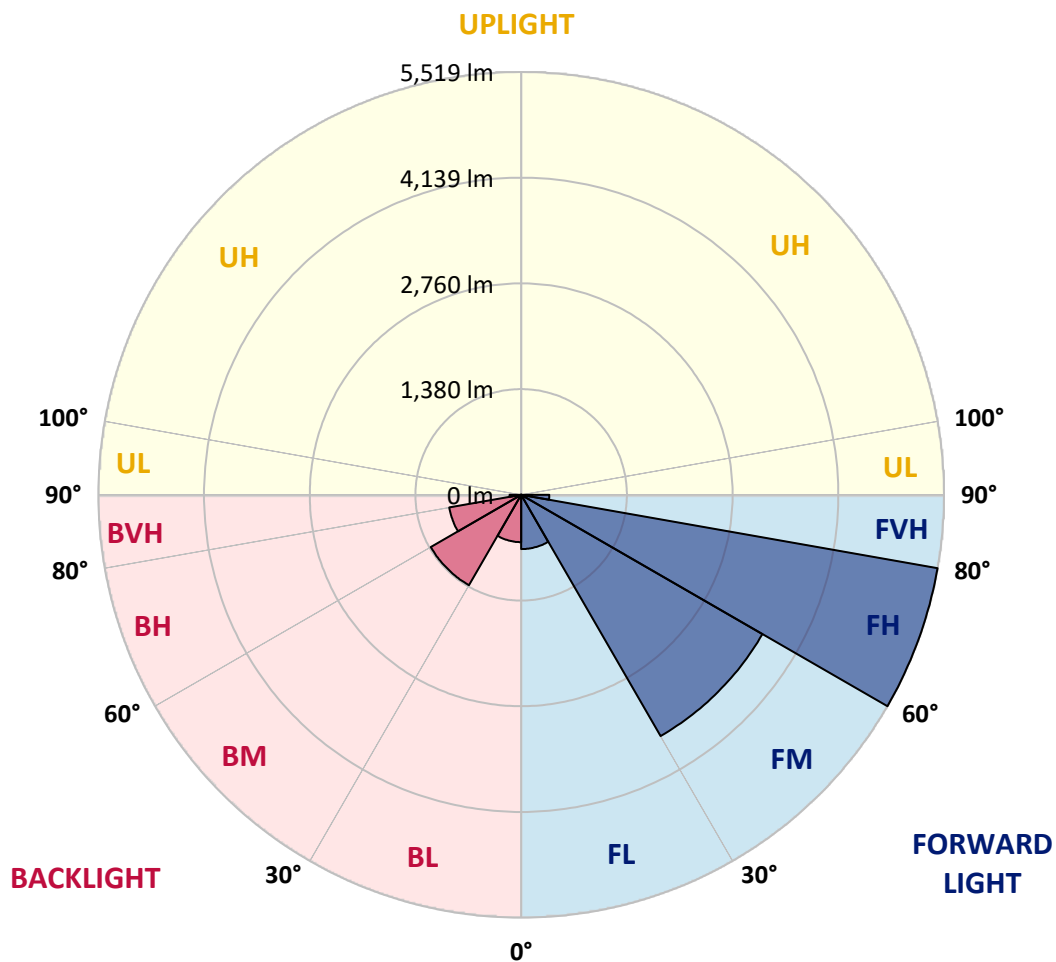
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	708.0	5.3			
FM (30°-60°)	3636.0	27.3			
FH (60°-80°)	5519.1	41.5			G3/7500
FVH (80°-90°)	367.2	2.8			G3/500
BL (0°-30°)	617.8	4.6	B2/1000		
BM (30°-60°)	1363.2	10.2	B2/2500		
BH (60°-80°)	953.2	7.2	B2/1000		G2/1000
BVH (80°-90°)	150.3	1.1			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0
2.5°	1432.3	1421.9	1421.9	1414.1	1414.1	1401.3	1396.1	1393.5	1380.4	1372.7	1365.0
5°	1515.3	1502.2	1499.6	1481.6	1473.7	1445.3	1442.7	1424.5	1401.3	1377.9	1359.8
7.5°	1590.3	1582.5	1569.6	1551.5	1528.1	1491.8	1489.3	1460.7	1421.9	1390.8	1365.0
10°	1644.6	1639.4	1621.4	1598.1	1572.2	1535.9	1533.2	1502.2	1455.7	1419.3	1383.1
12.5°	1709.5	1701.7	1678.4	1647.2	1618.7	1585.1	1582.5	1556.7	1504.8	1458.2	1411.5
15°	1771.5	1761.2	1732.7	1701.7	1670.6	1642.1	1642.1	1613.5	1559.2	1504.8	1450.5
17.5°	1802.7	1797.5	1769.0	1735.3	1709.5	1688.8	1686.1	1660.2	1605.8	1548.9	1489.3
20°	1813.0	1815.7	1789.8	1753.4	1735.3	1724.9	1722.4	1704.3	1644.6	1590.3	1533.2
22.5°	1810.4	1818.2	1797.5	1758.6	1753.4	1753.4	1753.4	1732.7	1686.1	1631.7	1574.8
25°	1820.9	1831.1	1815.7	1769.0	1769.0	1779.4	1779.4	1769.0	1727.6	1681.0	1624.0
27.5°	1857.1	1864.8	1851.9	1787.2	1789.8	1805.2	1802.7	1805.2	1779.4	1735.3	1678.4
30°	1901.2	1911.5	1896.0	1815.7	1813.0	1828.6	1828.6	1841.5	1823.4	1776.8	1730.1
32.5°	2020.3	2017.7	1968.5	1846.6	1838.9	1854.6	1854.6	1867.4	1857.1	1820.9	1776.8
35°	2375.1	2336.2	2227.4	1947.7	1870.0	1877.7	1877.7	1901.2	1906.3	1877.7	1838.9
37.5°	2737.7	2724.6	2641.8	2217.0	1983.9	1927.0	1924.3	1958.0	1981.4	1958.0	1932.2
40°	3102.8	3092.5	3074.4	2577.1	2222.2	2015.1	2007.4	2035.7	2077.2	2061.7	2046.1
42.5°	3442.1	3436.9	3455.2	2932.0	2525.2	2204.1	2180.8	2147.2	2206.7	2201.6	2201.6
45°	3708.9	3721.9	3732.3	3263.5	2854.3	2447.6	2419.0	2305.1	2385.4	2406.2	2421.7
47.5°	3859.2	3869.4	3905.8	3587.2	3183.1	2729.9	2709.2	2522.7	2628.9	2691.1	2735.1
50°	4074.2	4045.6	4076.8	3903.1	3579.4	3097.6	3040.8	2815.4	2950.0	3058.9	3162.5
52.5°	4281.3	4234.7	4260.7	4268.3	4030.1	3457.7	3398.2	3159.9	3328.2	3499.2	3683.1
55°	4467.8	4465.3	4491.2	4623.2	4465.3	3843.6	3776.3	3540.6	3784.1	3968.0	4278.7
57.5°	4618.0	4644.0	4758.0	5035.0	4967.6	4263.3	4188.1	3983.4	4271.0	4454.9	4970.3
60°	4794.2	4835.7	5024.7	5384.7	5426.1	4703.5	4625.8	4478.2	4770.9	4957.3	5770.6
62.5°	4853.7	4913.3	5301.8	5752.4	5905.3	5185.2	5115.4	5016.9	5296.6	5465.0	6568.3
65°	4457.5	4571.5	5454.7	5941.6	6420.7	5765.4	5705.9	5620.3	5819.8	5931.1	7109.6
67.5°	4348.6	4400.4	5156.8	6213.5	6905.0	6511.4	6451.7	6304.1	6309.3	6262.8	7285.9
70°	4195.9	4252.8	4851.1	6418.1	7599.2	7531.8	7459.3	7024.1	6757.4	6475.2	6938.7
72.5°	3574.3	3556.1	4180.4	5866.4	7933.3	8795.8	8710.3	7798.6	7089.0	6291.2	5856.1
75°	2007.4	1955.5	2535.6	4058.6	7244.3	9298.3	9295.8	8189.7	6855.9	5480.5	3986.0
77.5°	582.8	567.2	836.6	1701.7	4877.1	8078.4	8176.8	7386.9	5721.5	3936.8	2188.6
80°	274.5	279.7	360.0	562.0	2082.5	5213.8	5496.1	4864.1	3418.9	1815.7	904.0
82.5°	173.6	176.1	246.0	362.6	880.6	2367.4	2600.5	2188.6	1354.6	784.8	398.8
85°	108.8	108.8	163.2	238.3	525.8	756.4	821.1	746.0	580.1	427.4	217.6
87.5°	59.6	59.6	98.5	137.4	287.5	243.5	251.3	297.9	362.6	261.5	108.8
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°	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0	1365.0
2.5°	1362.4	1357.2	1349.4	1346.7	1344.3	1341.7	1344.3	1349.4	1344.3	1344.3	1346.7
5°	1354.6	1349.4	1339.1	1339.1	1341.7	1344.3	1357.2	1365.0	1367.5	1367.5	1367.5
7.5°	1354.6	1346.7	1339.1	1341.7	1346.7	1357.2	1377.9	1390.8	1401.3	1403.8	1403.8
10°	1367.5	1357.2	1351.9	1357.2	1372.7	1380.4	1401.3	1421.9	1435.0	1440.1	1440.1
12.5°	1390.8	1380.4	1380.4	1390.8	1411.5	1421.9	1440.1	1455.7	1471.2	1478.9	1478.9
15°	1429.7	1416.7	1419.3	1437.5	1460.7	1471.2	1484.1	1489.3	1502.2	1512.6	1512.6
17.5°	1465.9	1453.0	1458.2	1478.9	1494.5	1499.6	1507.4	1504.8	1510.1	1517.7	1520.3
20°	1507.4	1494.5	1497.0	1510.1	1512.6	1507.4	1507.4	1499.6	1497.0	1510.1	1515.3
22.5°	1548.9	1535.9	1533.2	1525.5	1512.6	1499.6	1491.8	1484.1	1478.9	1491.8	1497.0
25°	1598.1	1579.8	1567.0	1533.2	1499.6	1476.4	1465.9	1460.7	1458.2	1471.2	1476.4
27.5°	1652.4	1634.3	1595.5	1522.9	1468.5	1429.7	1421.9	1421.9	1427.0	1435.0	1440.1
30°	1704.3	1686.1	1616.2	1499.6	1414.1	1357.2	1349.4	1357.2	1370.2	1377.9	1385.6
32.5°	1756.0	1738.0	1629.2	1463.3	1333.9	1261.4	1256.2	1269.1	1289.8	1295.0	1300.1
35°	1826.0	1807.8	1644.6	1411.5	1232.8	1155.2	1150.0	1157.7	1175.9	1183.6	1191.4
37.5°	1924.3	1914.1	1668.1	1354.6	1139.6	1054.2	1038.6	1033.4	1043.8	1041.1	1051.6
40°	2054.0	2061.7	1709.5	1279.5	1049.0	960.8	927.2	911.7	901.3	880.6	890.9
42.5°	2243.0	2248.2	1756.0	1193.9	971.2	872.9	828.9	800.3	779.5	746.0	751.2
45°	2520.1	2476.1	1810.4	1103.4	901.3	802.9	751.2	717.4	689.0	660.4	663.0
47.5°	2888.0	2753.2	1870.0	1028.2	831.4	746.0	699.3	660.4	626.7	603.5	606.0
50°	3341.2	3097.6	1929.6	958.3	761.5	701.8	660.4	619.0	585.3	562.0	559.5
52.5°	3939.4	3512.2	1968.5	880.6	691.5	663.0	626.7	587.9	546.4	518.1	515.4
55°	4561.1	3993.9	2002.1	787.4	624.2	619.0	600.8	556.9	507.6	471.4	466.2
57.5°	5244.8	4509.2	2028.1	696.7	572.4	582.8	577.6	525.8	471.4	437.7	435.0
60°	5866.4	5042.8	1945.1	616.4	525.8	546.4	551.6	507.6	479.2	486.9	489.5
62.5°	6493.3	5454.7	1629.2	556.9	494.6	523.3	567.2	564.7	551.6	564.7	567.2
65°	6718.6	5540.0	1155.2	507.6	463.6	533.6	616.4	611.2	551.6	528.4	523.3
67.5°	6591.7	5286.3	777.0	468.7	440.3	546.4	668.2	611.2	531.0	499.8	489.5
70°	5988.2	4662.1	569.9	430.0	419.6	544.0	696.7	608.6	520.6	486.9	473.9
72.5°	4776.1	3597.6	458.5	393.6	388.4	531.0	712.3	603.5	510.2	473.9	458.5
75°	3092.5	2237.8	385.9	357.4	341.9	510.2	704.5	587.9	497.3	450.7	440.3
77.5°	1435.0	963.5	328.9	315.9	297.9	479.2	681.2	556.9	468.7	424.8	411.9
80°	668.2	455.8	277.1	274.5	266.7	453.3	650.2	520.6	435.0	398.8	378.1
82.5°	357.4	274.5	225.4	225.4	233.1	422.2	611.2	476.6	391.1	372.9	318.5
85°	189.1	158.0	163.2	176.1	199.5	372.9	559.5	430.0	341.9	284.9	277.1
87.5°	95.8	101.0	101.0	119.1	152.8	303.1	461.0	354.8	290.2	233.1	227.9
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)