

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: P398146

Luminaire Tested: **ARCH-S-PA1-90-750-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-90-750-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11590 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 94
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

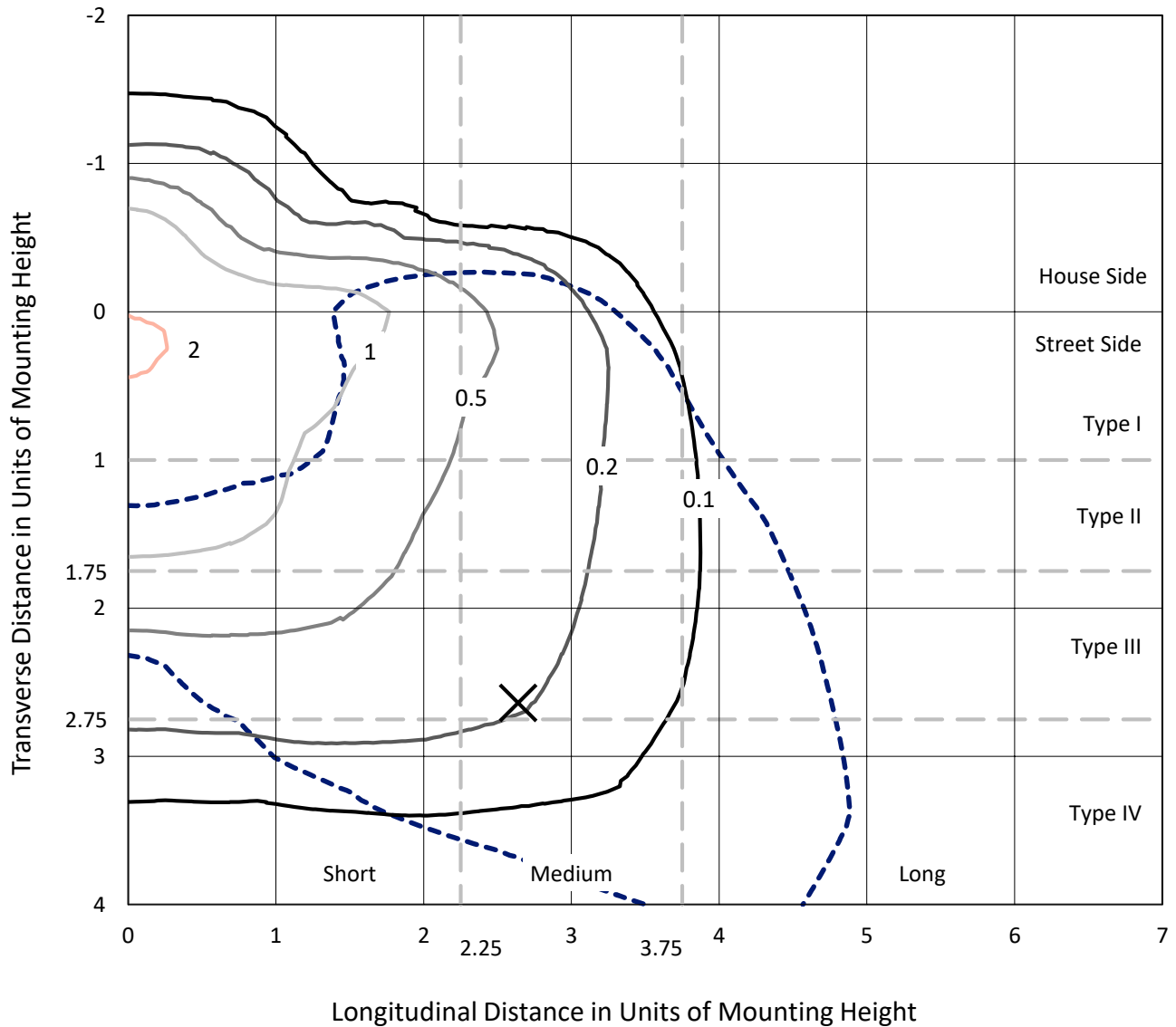


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

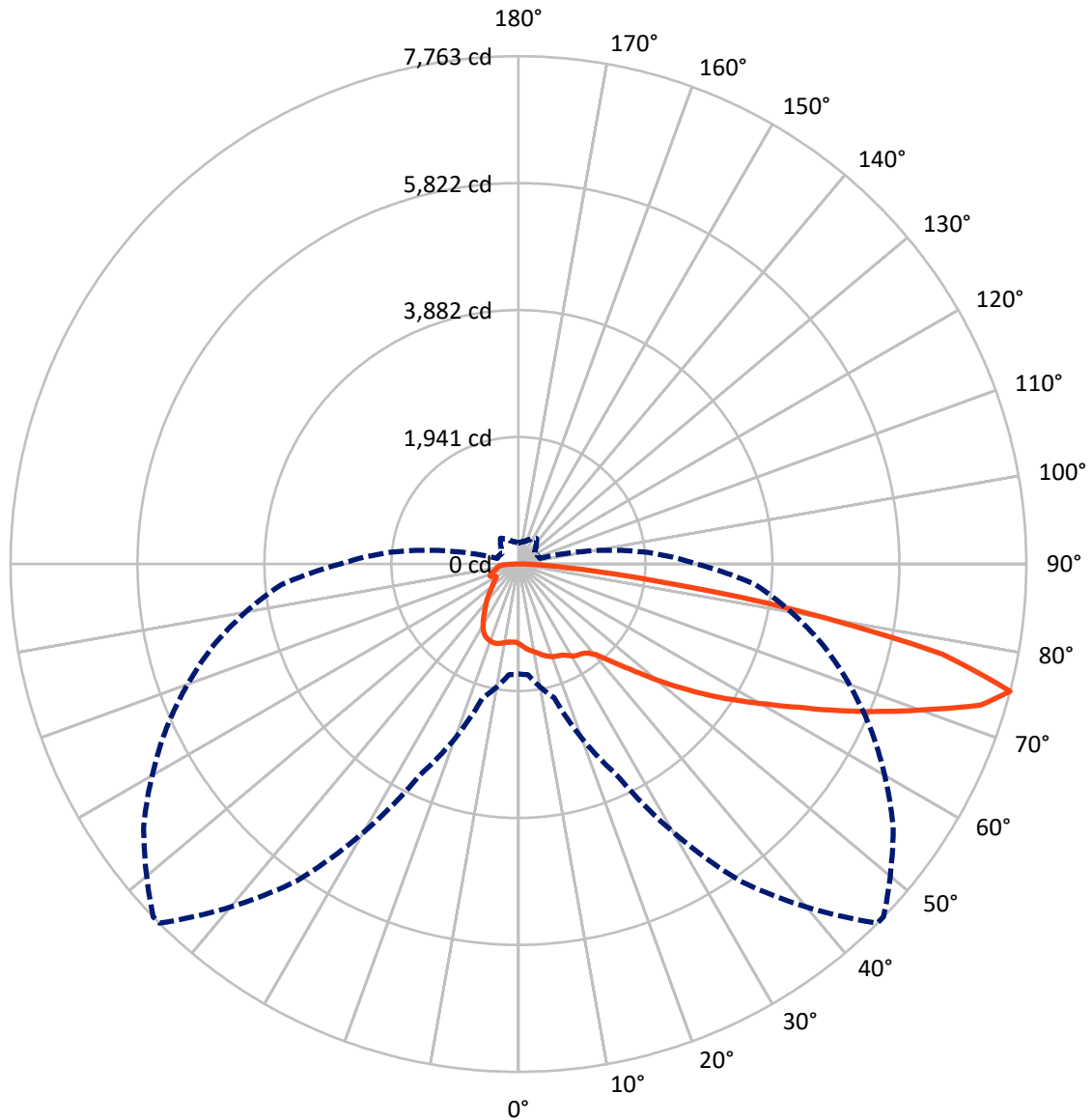


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Medium - Non-Cutoff

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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	2561.3	0.0	2561.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	9028.7	0.0	9028.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	11590.0	0.0	11590.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.0
10°-20°	383.1	3.3
20°-30°	653.1	5.6
30°-40°	915.1	7.9
40°-50°	1344.4	11.6
50°-60°	2139.6	18.5
60°-70°	3043.6	26.3
70°-80°	2548.4	22.0
80°-90°	442.3	3.8
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°	11590.0	100.0
0°-180°	11590.0	100.0



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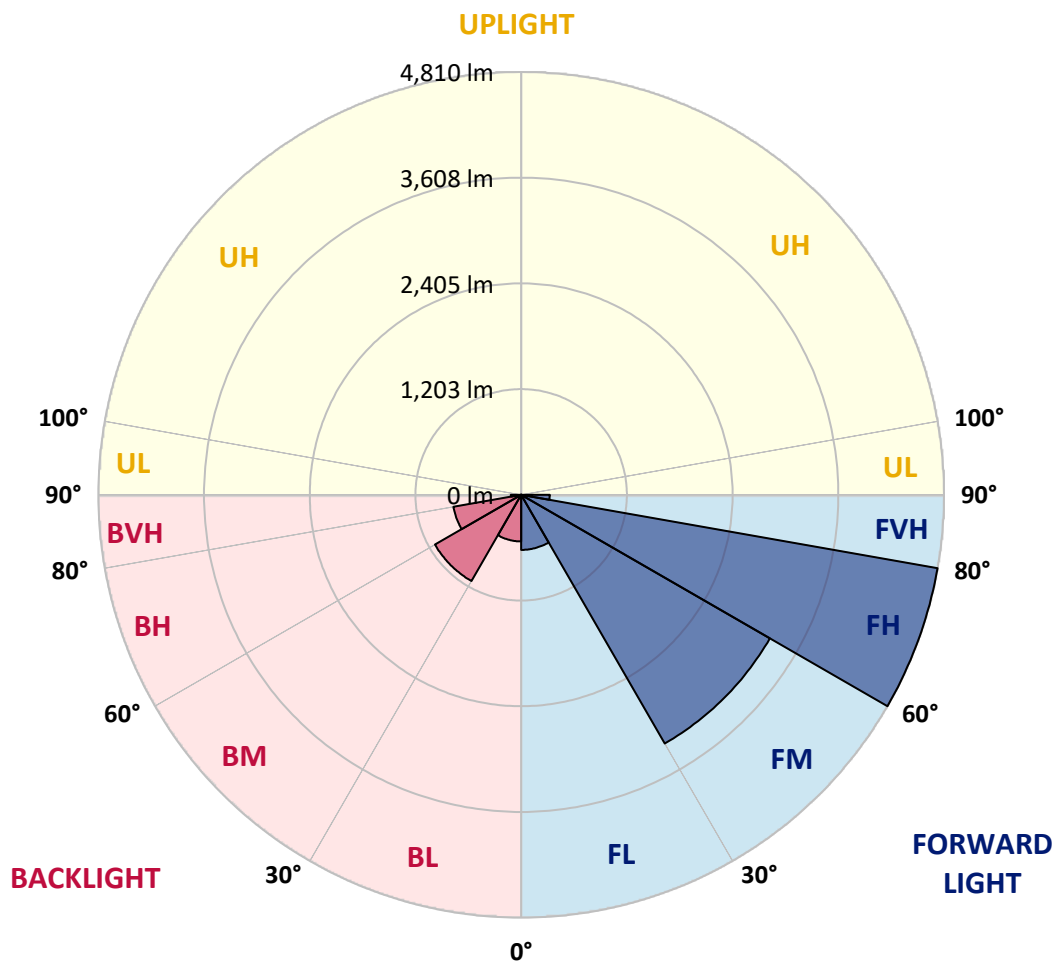
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.5	5.4			
FM (30°-60°)	3266.9	28.2			
FH (60°-80°)	4810.1	41.5			G2/5000
FVH (80°-90°)	325.2	2.8			G3/500
BL (0°-30°)	530.1	4.6	B2/1000		
BM (30°-60°)	1132.2	9.8	B2/2500		
BH (60°-80°)	781.9	6.7	B2/1000		G2/1000
BVH (80°-90°)	117.1	1.0			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°	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2
2.5°	1286.9	1280.7	1277.6	1277.6	1265.2	1257.5	1255.9	1245.1	1235.8	1226.5	1218.8
5°	1361.2	1356.6	1347.3	1339.5	1322.5	1300.8	1297.7	1274.5	1251.3	1229.6	1211.0
7.5°	1429.4	1420.1	1409.2	1393.7	1365.9	1336.4	1331.8	1299.3	1266.8	1234.2	1209.5
10°	1486.7	1477.4	1461.9	1440.2	1404.6	1369.0	1364.3	1330.3	1296.2	1257.5	1221.8
12.5°	1540.9	1533.1	1509.9	1480.5	1438.7	1406.1	1401.5	1372.1	1336.4	1293.1	1246.6
15°	1587.3	1579.6	1554.8	1520.7	1472.7	1447.9	1441.8	1413.9	1378.3	1331.8	1283.8
17.5°	1610.5	1610.5	1584.2	1547.1	1502.1	1483.6	1478.9	1444.8	1412.3	1367.4	1319.4
20°	1618.3	1621.4	1602.8	1557.9	1519.2	1511.4	1506.8	1478.9	1441.8	1398.4	1353.5
22.5°	1622.9	1629.1	1613.6	1562.5	1530.0	1525.4	1522.3	1503.7	1474.3	1432.5	1387.6
25°	1638.4	1638.4	1627.6	1570.3	1544.0	1542.4	1542.4	1531.6	1511.4	1475.8	1430.9
27.5°	1661.7	1660.1	1646.2	1587.3	1574.9	1579.6	1578.0	1576.5	1562.5	1526.9	1478.9
30°	1700.4	1700.4	1684.9	1621.4	1613.6	1633.8	1635.3	1638.4	1616.7	1561.0	1522.3
32.5°	1759.2	1753.0	1737.5	1655.5	1643.1	1661.7	1664.8	1663.2	1644.6	1592.0	1573.4
35°	1940.4	1926.5	1870.7	1731.3	1669.4	1680.2	1681.8	1689.5	1692.6	1650.8	1641.5
37.5°	2257.9	2239.3	2154.1	1911.0	1753.0	1726.7	1725.1	1745.3	1762.3	1725.1	1725.1
40°	2603.2	2587.7	2538.2	2220.7	1907.9	1821.2	1815.0	1833.5	1855.2	1828.9	1836.6
42.5°	2900.5	2912.9	2917.6	2549.0	2140.2	1997.7	1980.7	1954.3	1988.4	1965.2	1996.2
45°	3123.5	3117.3	3202.5	2885.1	2440.6	2219.2	2195.9	2124.7	2168.0	2166.5	2234.6
47.5°	3360.5	3349.6	3385.3	3201.0	2782.8	2490.2	2454.5	2349.2	2414.3	2459.2	2572.2
50°	3585.0	3588.1	3600.5	3450.3	3154.5	2820.0	2775.1	2634.2	2727.1	2821.6	2981.1
52.5°	3877.7	3856.0	3840.5	3741.4	3571.1	3163.8	3134.4	2973.3	3103.4	3214.9	3427.1
55°	4133.2	4119.3	4110.0	4105.4	3919.5	3543.2	3512.2	3345.0	3532.4	3611.3	3924.2
57.5°	4405.8	4398.0	4447.6	4526.6	4452.2	3928.8	3896.3	3735.2	3944.3	4000.0	4463.1
60°	4605.6	4610.2	4746.5	4947.8	4896.7	4346.9	4308.2	4165.7	4345.4	4394.9	5002.0
62.5°	4607.1	4653.6	4969.5	5330.3	5389.1	4828.6	4783.6	4628.8	4757.3	4757.3	5485.2
65°	4167.3	4219.9	4929.2	5424.8	5887.8	5401.5	5358.2	5115.0	5163.0	5098.0	5938.9
67.5°	3729.0	3791.0	4458.4	5432.5	6237.8	6014.8	5963.7	5601.3	5519.2	5355.1	6256.4
70°	3437.9	3481.3	4038.8	5331.8	6448.4	6655.9	6617.2	6062.8	5799.5	5570.3	6189.8
72.5°	2894.3	2878.9	3411.6	4853.3	6566.1	7383.7	7351.2	6564.5	6042.7	5468.1	5279.2
75°	1680.2	1698.8	2116.9	3555.6	5918.8	7763.2	7760.1	6993.5	5935.8	4830.1	3637.7
77.5°	484.7	498.7	695.3	1562.5	3743.0	6621.8	6834.0	6395.7	5017.5	3442.5	1886.2
80°	212.2	223.0	302.0	520.3	1612.1	4325.3	4511.1	4325.3	3026.0	1579.6	740.2
82.5°	125.4	133.2	196.7	322.1	772.8	2058.1	2309.0	2016.3	1305.5	670.5	306.6
85°	71.2	74.3	113.0	204.4	486.3	720.1	808.4	757.3	636.5	381.0	161.1
87.5°	32.5	34.1	55.7	96.0	272.6	243.1	252.4	334.5	368.6	232.3	80.5
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°	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2
2.5°	1215.7	1211.0	1201.7	1198.6	1194.0	1195.5	1197.1	1197.1	1198.6	1194.0	1194.0
5°	1203.3	1195.5	1186.2	1186.2	1186.2	1198.6	1209.5	1215.7	1218.8	1218.8	1215.7
7.5°	1198.6	1189.3	1178.5	1181.6	1184.7	1200.2	1220.3	1240.4	1246.6	1246.6	1243.5
10°	1207.9	1198.6	1190.9	1195.5	1203.3	1215.7	1231.1	1249.7	1265.2	1266.8	1265.2
12.5°	1229.6	1218.8	1211.0	1220.3	1229.6	1237.3	1245.1	1252.8	1273.0	1276.1	1276.1
15°	1265.2	1254.4	1245.1	1252.8	1255.9	1255.9	1255.9	1255.9	1276.1	1279.1	1279.1
17.5°	1300.8	1291.5	1282.2	1283.8	1274.5	1262.1	1257.5	1255.9	1266.8	1276.1	1277.6
20°	1334.9	1327.2	1317.9	1302.4	1279.1	1255.9	1248.2	1248.2	1254.4	1268.3	1268.3
22.5°	1372.1	1362.8	1347.3	1311.7	1273.0	1240.4	1232.7	1237.3	1245.1	1263.7	1262.1
25°	1413.9	1401.5	1375.2	1308.6	1252.8	1214.1	1215.7	1229.6	1243.5	1263.7	1263.7
27.5°	1460.3	1443.3	1390.6	1283.8	1207.9	1170.7	1184.7	1217.2	1237.3	1259.0	1262.1
30°	1511.4	1496.0	1403.0	1240.4	1135.1	1101.1	1135.1	1187.8	1218.8	1238.9	1243.5
32.5°	1573.4	1561.0	1413.9	1184.7	1040.7	1011.2	1060.8	1125.8	1175.4	1198.6	1203.3
35°	1650.8	1638.4	1427.8	1121.2	952.4	921.4	966.3	1032.9	1098.0	1127.4	1136.7
37.5°	1751.5	1732.9	1440.2	1053.1	878.1	842.4	864.1	924.5	983.4	1023.6	1034.5
40°	1880.0	1850.6	1451.0	975.6	813.0	772.8	780.5	809.9	844.0	879.6	893.5
42.5°	2061.2	2002.3	1452.6	893.5	746.4	709.3	706.2	715.5	715.5	715.5	720.1
45°	2313.6	2202.1	1455.7	816.1	678.3	639.6	630.3	627.2	604.0	559.0	555.9
47.5°	2632.6	2463.8	1469.6	751.1	607.1	573.0	560.6	548.2	504.8	458.4	449.1
50°	3041.5	2767.4	1497.5	689.1	546.7	523.4	507.9	478.5	430.5	394.9	385.6
52.5°	3512.2	3128.2	1523.8	624.1	501.7	486.3	467.7	432.1	381.0	359.3	356.2
55°	4052.7	3530.8	1576.5	566.8	463.0	452.2	435.2	401.1	362.4	346.9	345.3
57.5°	4605.6	3981.5	1650.8	515.7	425.9	419.7	419.7	390.2	365.5	359.3	359.3
60°	5138.3	4368.6	1593.5	467.7	391.8	394.9	424.3	416.6	398.0	405.7	410.4
62.5°	5551.7	4596.3	1293.1	429.0	367.0	394.9	470.8	470.8	449.1	446.0	446.0
65°	5728.3	4593.2	909.0	399.5	357.7	433.6	525.0	500.2	442.9	421.2	416.6
67.5°	5683.4	4391.8	627.2	379.4	354.6	473.9	549.8	480.1	415.0	396.4	382.5
70°	5288.5	3966.0	483.2	360.8	350.0	456.8	542.0	456.8	393.3	376.3	363.9
72.5°	4266.4	3180.8	401.1	342.2	331.4	422.8	515.7	435.2	376.3	357.7	345.3
75°	2720.9	2000.8	339.1	317.5	295.8	379.4	480.1	413.5	357.7	333.0	323.7
77.5°	1308.6	862.6	295.8	288.0	266.4	351.5	444.4	385.6	333.0	312.8	306.6
80°	529.6	394.9	257.1	258.6	244.7	334.5	419.7	359.3	308.2	286.5	275.7
82.5°	275.7	229.2	216.8	223.0	223.0	319.0	401.1	337.6	286.5	277.2	241.6
85°	148.7	142.5	167.2	179.6	193.6	288.0	373.2	314.4	261.7	224.5	216.8
87.5°	72.8	92.9	94.5	108.4	134.7	230.7	314.4	263.3	218.4	181.2	178.1
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)