

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: P398137

Luminaire Tested: **ARCH-S-PA1-90-740-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398137
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-PA1-90-740-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 11591 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

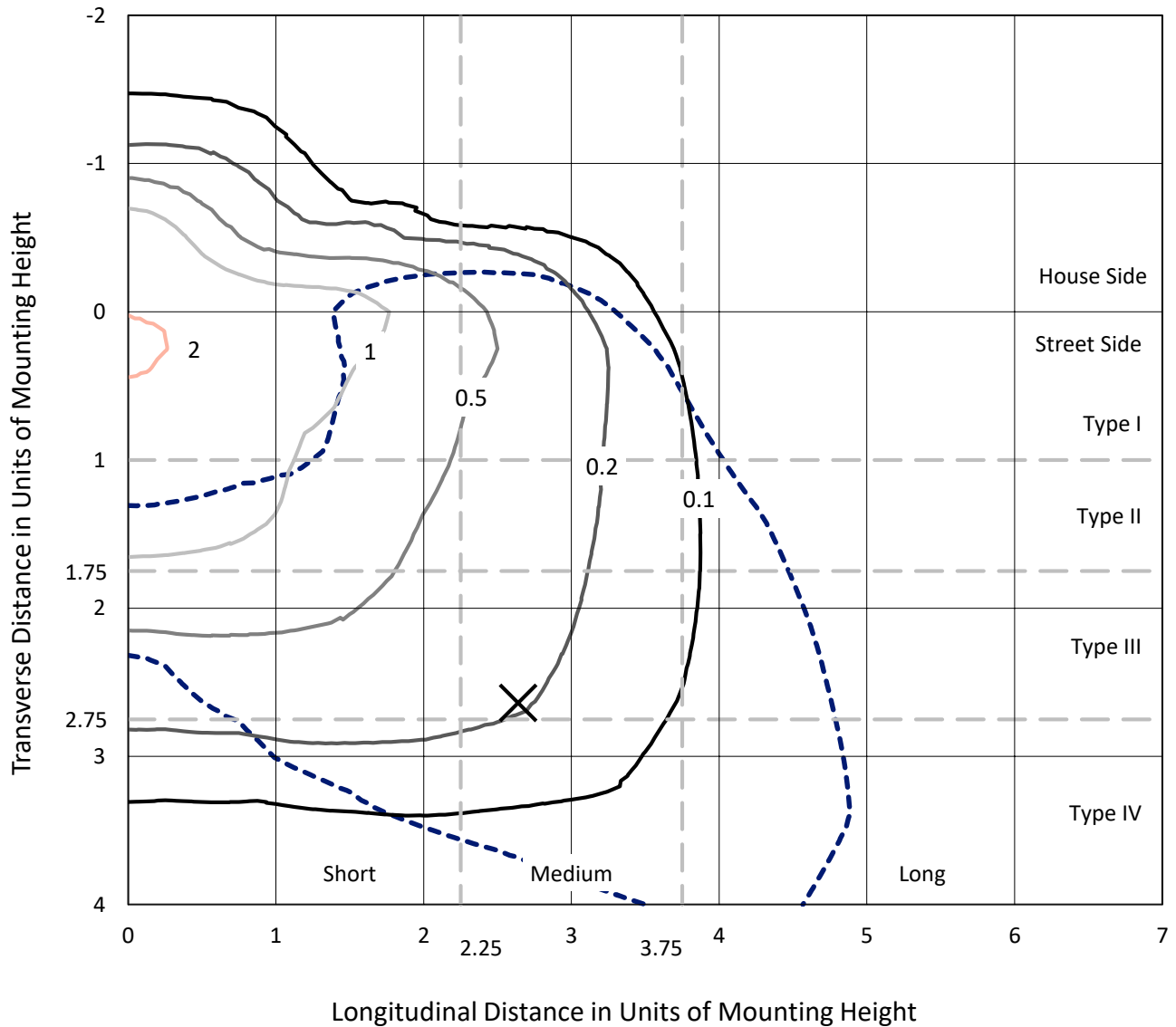
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

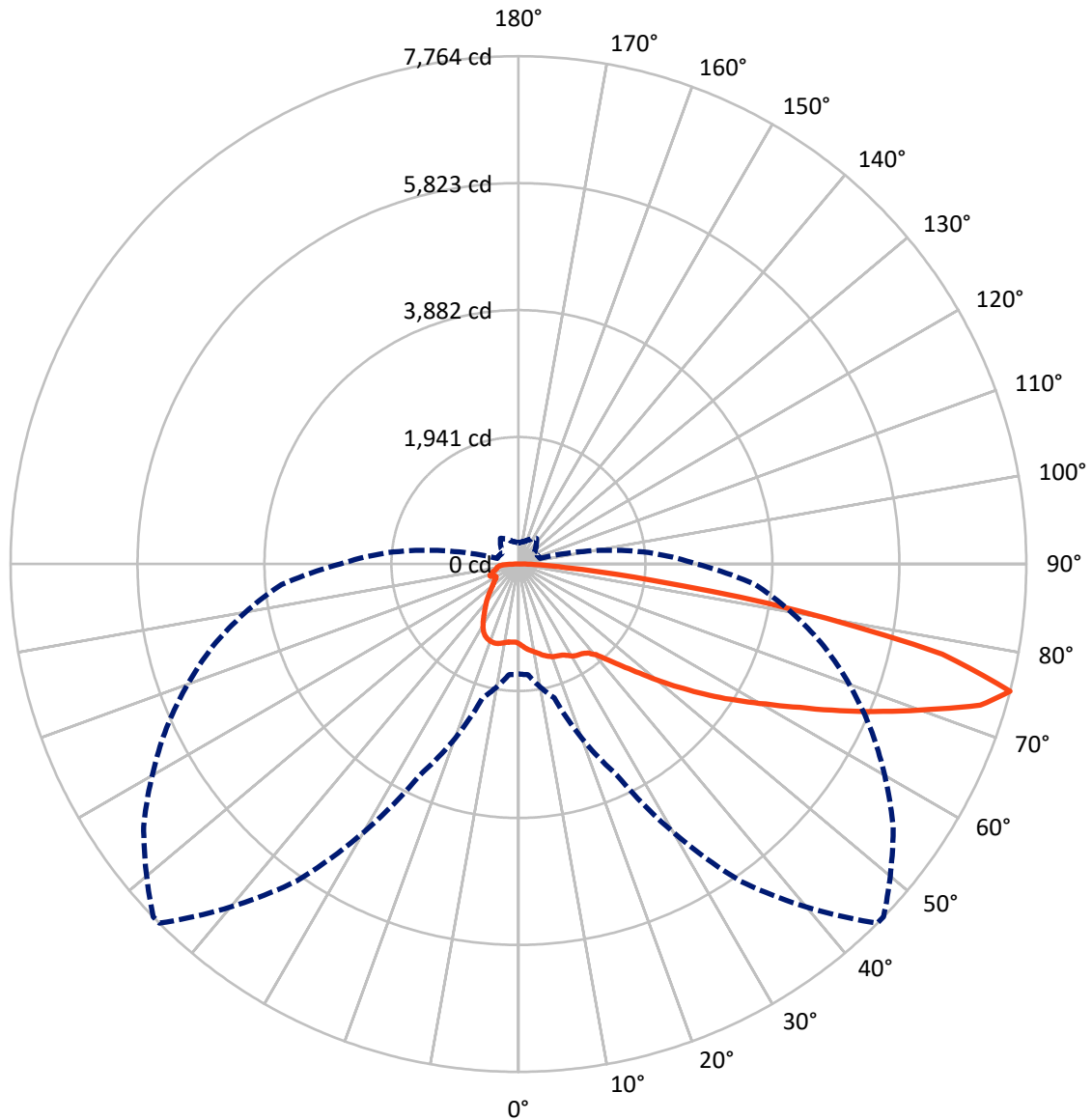


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Medium - Non-Cutoff

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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	2561.5	0.0	2561.5
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	9029.4	0.0	9029.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	11591.0	0.0	11591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.0
10°-20°	383.1	3.3
20°-30°	653.2	5.6
30°-40°	915.2	7.9
40°-50°	1344.5	11.6
50°-60°	2139.8	18.5
60°-70°	3043.9	26.3
70°-80°	2548.6	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°	11591.0	100.0
0°-180°	11591.0	100.0

Coefficient of Utilization



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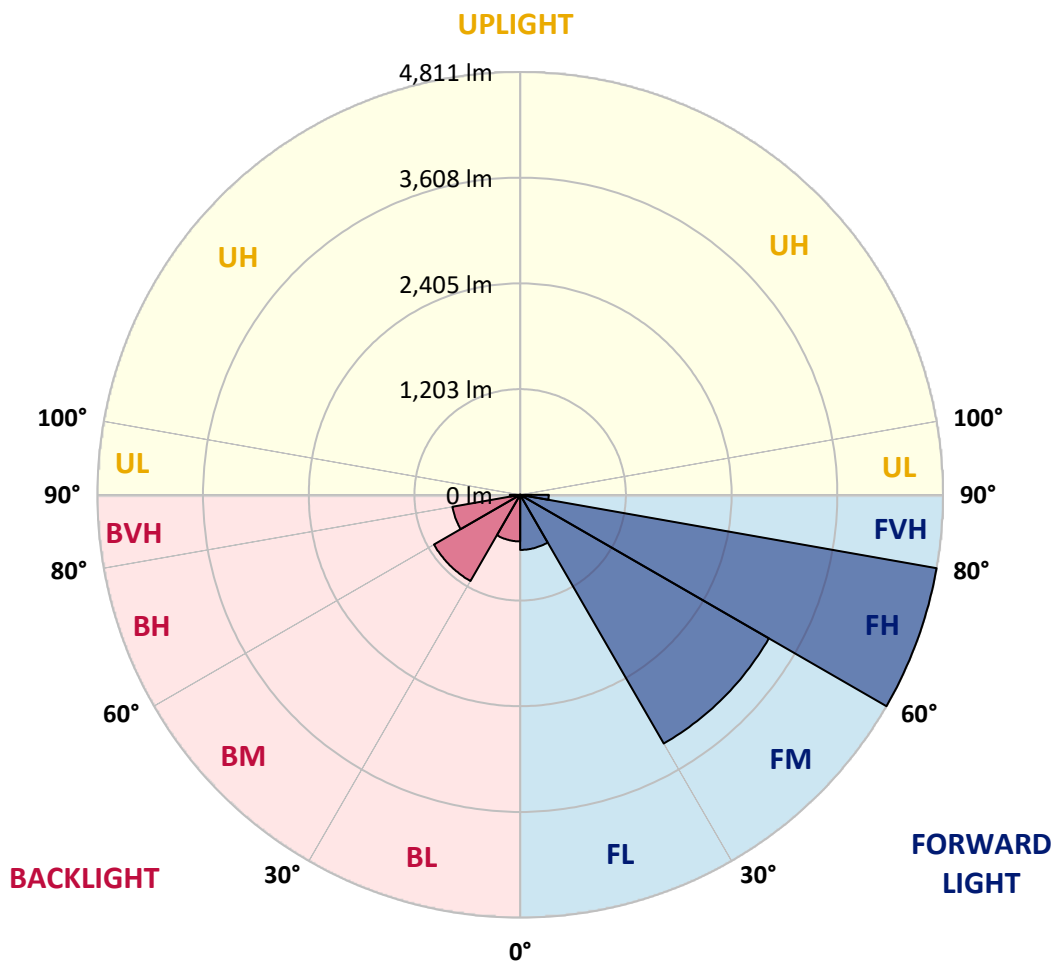
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.6	5.4			
FM (30°-60°)	3267.2	28.2			
FH (60°-80°)	4810.6	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°)	1132.3	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°	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3
2.5°	1287.0	1280.8	1277.7	1277.7	1265.3	1257.6	1256.0	1245.2	1235.9	1226.6	1218.9
5°	1361.3	1356.7	1347.4	1339.7	1322.6	1300.9	1297.8	1274.6	1251.4	1229.7	1211.1
7.5°	1429.5	1420.2	1409.4	1393.9	1366.0	1336.6	1331.9	1299.4	1266.9	1234.3	1209.6
10°	1486.8	1477.5	1462.0	1440.3	1404.7	1369.1	1364.4	1330.4	1296.3	1257.6	1222.0
12.5°	1541.0	1533.3	1510.0	1480.6	1438.8	1406.3	1401.6	1372.2	1336.6	1293.2	1246.7
15°	1587.5	1579.7	1554.9	1520.9	1472.9	1448.1	1441.9	1414.0	1378.4	1331.9	1283.9
17.5°	1610.7	1610.7	1584.4	1547.2	1502.3	1483.7	1479.0	1445.0	1412.4	1367.5	1319.5
20°	1618.4	1621.5	1602.9	1558.0	1519.3	1511.6	1506.9	1479.0	1441.9	1398.5	1353.6
22.5°	1623.1	1629.3	1613.8	1562.7	1530.2	1525.5	1522.4	1503.8	1474.4	1432.6	1387.7
25°	1638.6	1638.6	1627.7	1570.4	1544.1	1542.5	1542.5	1531.7	1511.6	1475.9	1431.0
27.5°	1661.8	1660.2	1646.3	1587.5	1575.1	1579.7	1578.2	1576.6	1562.7	1527.1	1479.0
30°	1700.5	1700.5	1685.0	1621.5	1613.8	1633.9	1635.5	1638.6	1616.9	1561.1	1522.4
32.5°	1759.4	1753.2	1737.7	1655.6	1643.2	1661.8	1664.9	1663.3	1644.8	1592.1	1573.5
35°	1940.6	1926.6	1870.9	1731.5	1669.5	1680.4	1681.9	1689.7	1692.8	1651.0	1641.7
37.5°	2258.1	2239.5	2154.3	1911.1	1753.2	1726.8	1725.3	1745.4	1762.5	1725.3	1725.3
40°	2603.4	2587.9	2538.4	2220.9	1908.0	1821.3	1815.1	1833.7	1855.4	1829.1	1836.8
42.5°	2900.8	2913.2	2917.8	2549.2	2140.4	1997.9	1980.8	1954.5	1988.6	1965.3	1996.3
45°	3123.8	3117.6	3202.8	2885.3	2440.8	2219.3	2196.1	2124.9	2168.2	2166.7	2234.8
47.5°	3360.8	3349.9	3385.5	3201.2	2783.1	2490.4	2454.8	2349.4	2414.5	2459.4	2572.5
50°	3585.3	3588.4	3600.8	3450.6	3154.8	2820.3	2775.3	2634.4	2727.3	2821.8	2981.3
52.5°	3878.0	3856.4	3840.9	3741.8	3571.4	3164.1	3134.6	2973.6	3103.7	3215.2	3427.4
55°	4133.6	4119.6	4110.4	4105.7	3919.9	3543.5	3512.5	3345.3	3532.7	3611.7	3924.5
57.5°	4406.2	4398.4	4448.0	4527.0	4452.6	3929.2	3896.6	3735.6	3944.6	4000.4	4463.5
60°	4605.9	4610.6	4746.9	4948.2	4897.1	4347.3	4308.6	4166.1	4345.8	4395.3	5002.4
62.5°	4607.5	4654.0	4969.9	5330.8	5389.6	4829.0	4784.1	4629.2	4757.7	4757.7	5485.6
65°	4167.7	4220.3	4929.6	5425.2	5888.3	5402.0	5358.6	5115.5	5163.5	5098.4	5939.4
67.5°	3729.4	3791.3	4458.8	5433.0	6238.3	6015.3	5964.2	5601.8	5519.7	5355.5	6256.9
70°	3438.2	3481.6	4039.1	5332.3	6448.9	6656.5	6617.8	6063.3	5800.0	5570.8	6190.3
72.5°	2894.6	2879.1	3411.9	4853.7	6566.7	7384.4	7351.9	6565.1	6043.2	5468.6	5279.7
75°	1680.4	1699.0	2117.1	3555.9	5919.3	7763.8	7760.7	6994.1	5936.3	4830.5	3638.0
77.5°	484.8	498.7	695.4	1562.7	3743.3	6622.4	6834.6	6396.3	5017.9	3442.8	1886.4
80°	212.2	223.0	302.0	520.4	1612.2	4325.6	4511.5	4325.6	3026.2	1579.7	740.3
82.5°	125.4	133.2	196.7	322.1	772.8	2058.3	2309.2	2016.5	1305.6	670.6	306.7
85°	71.2	74.3	113.1	204.4	486.3	720.2	808.4	757.3	636.5	381.0	161.1
87.5°	32.5	34.1	55.8	96.0	272.6	243.2	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°	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3	1217.3
2.5°	1215.8	1211.1	1201.8	1198.7	1194.1	1195.6	1197.2	1197.2	1198.7	1194.1	1194.1
5°	1203.4	1195.6	1186.3	1186.3	1186.3	1198.7	1209.6	1215.8	1218.9	1218.9	1215.8
7.5°	1198.7	1189.4	1178.6	1181.7	1184.8	1200.3	1220.4	1240.5	1246.7	1246.7	1243.6
10°	1208.0	1198.7	1191.0	1195.6	1203.4	1215.8	1231.2	1249.8	1265.3	1266.9	1265.3
12.5°	1229.7	1218.9	1211.1	1220.4	1229.7	1237.4	1245.2	1252.9	1273.1	1276.2	1276.2
15°	1265.3	1254.5	1245.2	1252.9	1256.0	1256.0	1256.0	1256.0	1276.2	1279.3	1279.3
17.5°	1300.9	1291.6	1282.4	1283.9	1274.6	1262.2	1257.6	1256.0	1266.9	1276.2	1277.7
20°	1335.0	1327.3	1318.0	1302.5	1279.3	1256.0	1248.3	1248.3	1254.5	1268.4	1268.4
22.5°	1372.2	1362.9	1347.4	1311.8	1273.1	1240.5	1232.8	1237.4	1245.2	1263.8	1262.2
25°	1414.0	1401.6	1375.3	1308.7	1252.9	1214.2	1215.8	1229.7	1243.6	1263.8	1263.8
27.5°	1460.5	1443.4	1390.8	1283.9	1208.0	1170.8	1184.8	1217.3	1237.4	1259.1	1262.2
30°	1511.6	1496.1	1403.2	1240.5	1135.2	1101.2	1135.2	1187.9	1218.9	1239.0	1243.6
32.5°	1573.5	1561.1	1414.0	1184.8	1040.8	1011.3	1060.9	1125.9	1175.5	1198.7	1203.4
35°	1651.0	1638.6	1427.9	1121.3	952.5	921.5	966.4	1033.0	1098.1	1127.5	1136.8
37.5°	1751.6	1733.0	1440.3	1053.1	878.1	842.5	864.2	924.6	983.4	1023.7	1034.6
40°	1880.2	1850.7	1451.2	975.7	813.1	772.8	780.6	810.0	844.1	879.7	893.6
42.5°	2061.4	2002.5	1452.7	893.6	746.5	709.3	706.2	715.5	715.5	715.5	720.2
45°	2313.8	2202.3	1455.8	816.2	678.3	639.6	630.3	627.2	604.0	559.1	556.0
47.5°	2632.9	2464.0	1469.8	751.1	607.1	573.0	560.6	548.3	504.9	458.4	449.1
50°	3041.7	2767.6	1497.6	689.2	546.7	523.5	508.0	478.6	430.5	394.9	385.6
52.5°	3512.5	3128.5	1524.0	624.1	501.8	486.3	467.7	432.1	381.0	359.3	356.2
55°	4053.0	3531.1	1576.6	566.8	463.1	452.2	435.2	401.1	362.4	346.9	345.4
57.5°	4605.9	3981.8	1651.0	515.7	425.9	419.7	419.7	390.3	365.5	359.3	359.3
60°	5138.7	4369.0	1593.7	467.7	391.8	394.9	424.4	416.6	398.0	405.8	410.4
62.5°	5552.2	4596.7	1293.2	429.0	367.1	394.9	470.8	470.8	449.1	446.0	446.0
65°	5728.8	4593.6	909.1	399.6	357.8	433.6	525.0	500.2	442.9	421.3	416.6
67.5°	5683.9	4392.2	627.2	379.4	354.7	473.9	549.8	480.1	415.1	396.5	382.5
70°	5288.9	3966.3	483.2	360.9	350.0	456.9	542.1	456.9	393.4	376.3	364.0
72.5°	4266.8	3181.1	401.1	342.3	331.4	422.8	515.7	435.2	376.3	357.8	345.4
75°	2721.1	2001.0	339.2	317.5	295.8	379.4	480.1	413.5	357.8	333.0	323.7
77.5°	1308.7	862.6	295.8	288.1	266.4	351.6	444.5	385.6	333.0	312.8	306.7
80°	529.7	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	167.3	179.7	193.6	288.1	373.2	314.4	261.7	224.6	216.8
87.5°	72.8	92.9	94.5	108.4	134.7	230.8	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)