

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: P397552

Luminaire Tested: **ARCH-S-PA1-100-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397552
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-PA1-100-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10665 lumens
Efficiency: N/A
Efficacy: 111.1 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

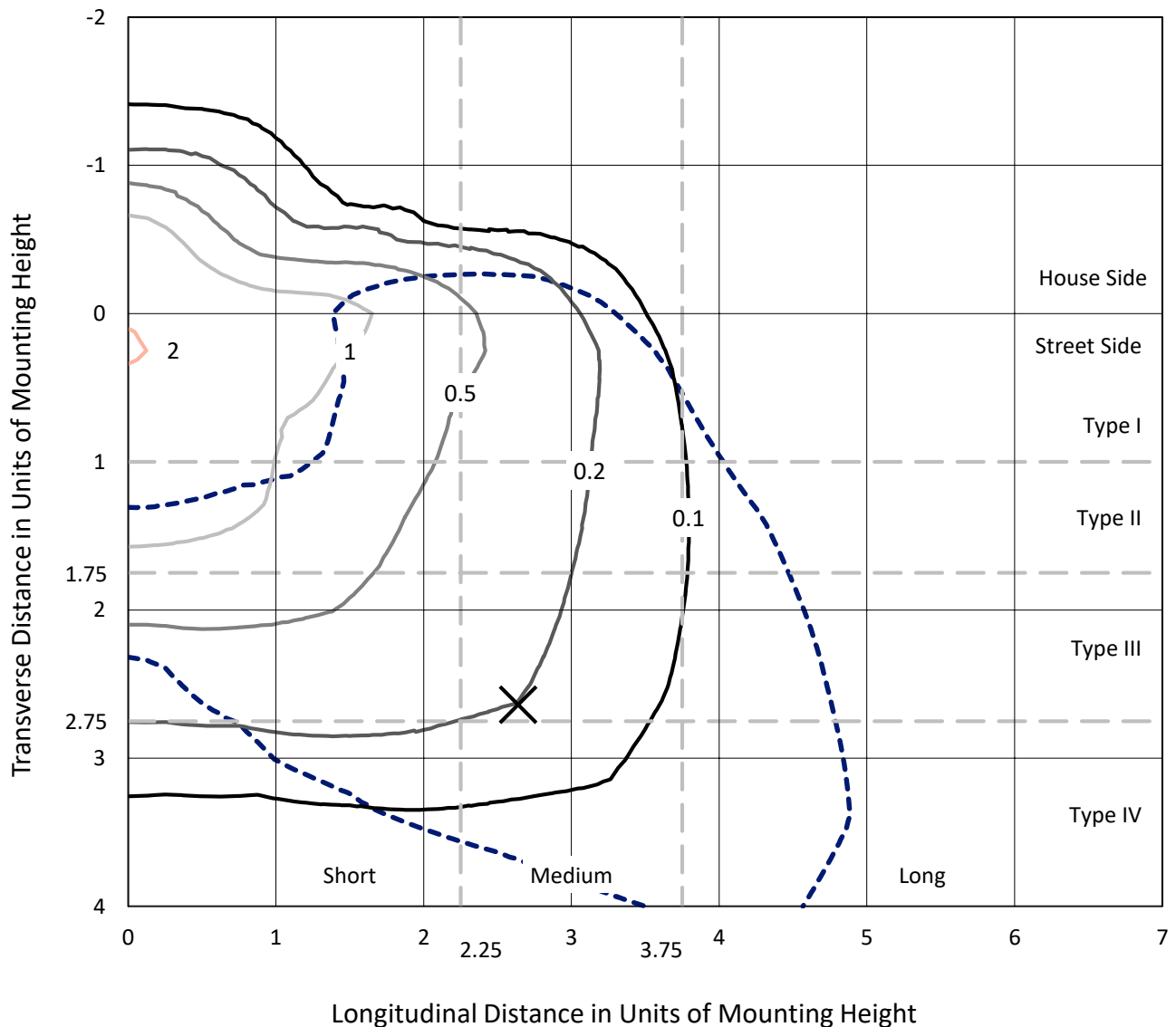
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

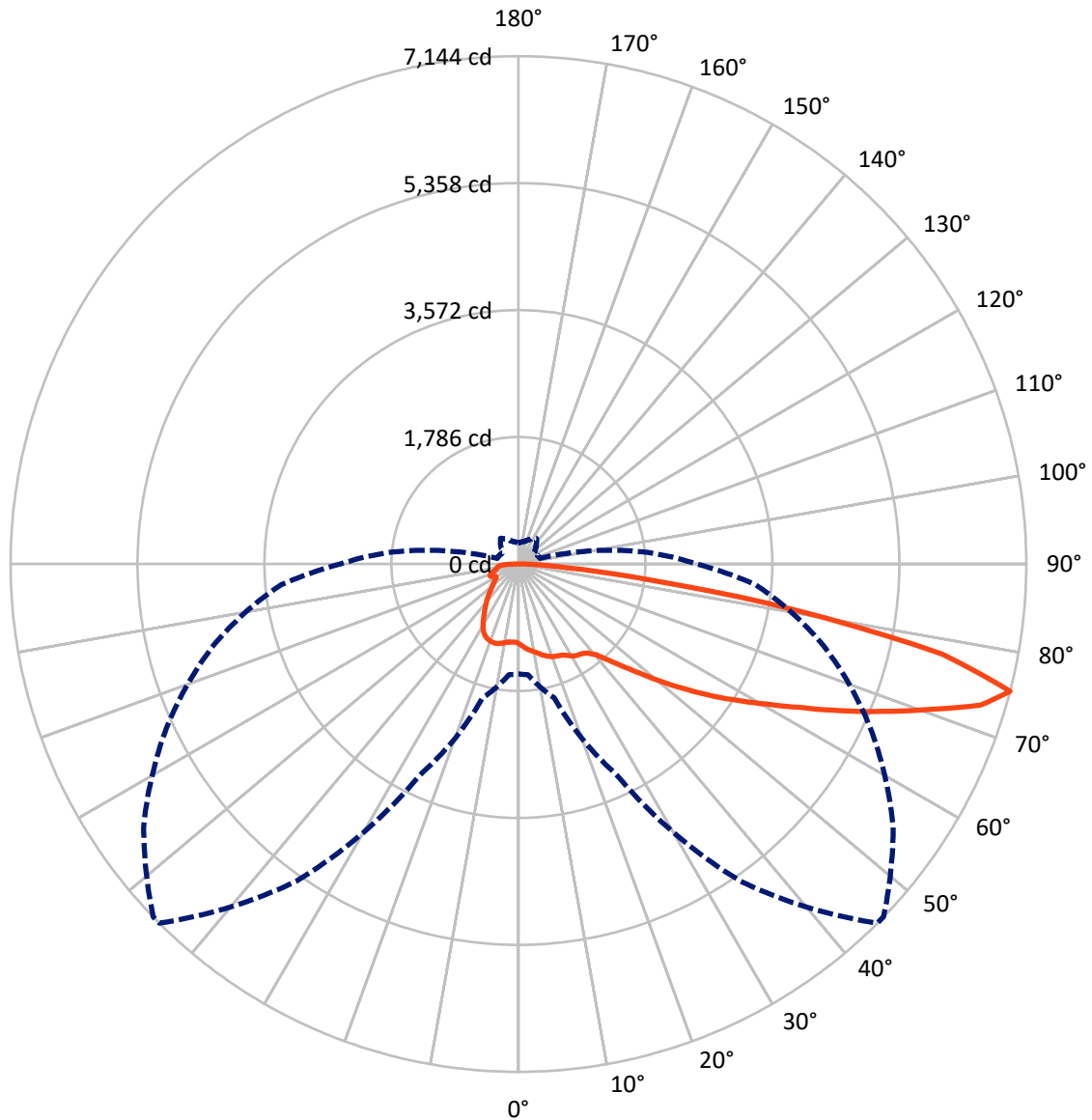
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	2356.9	0.0	2356.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	8308.1	0.0	8308.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	10665.0	0.0	10665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	1.0
10°-20°	352.5	3.3
20°-30°	601.0	5.6
30°-40°	842.1	7.9
40°-50°	1237.1	11.6
50°-60°	1968.9	18.5
60°-70°	2800.7	26.3
70°-80°	2345.0	22.0
80°-90°	407.0	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°	10665.0	100.0
0°-180°	10665.0	100.0

Coefficient of Utilization



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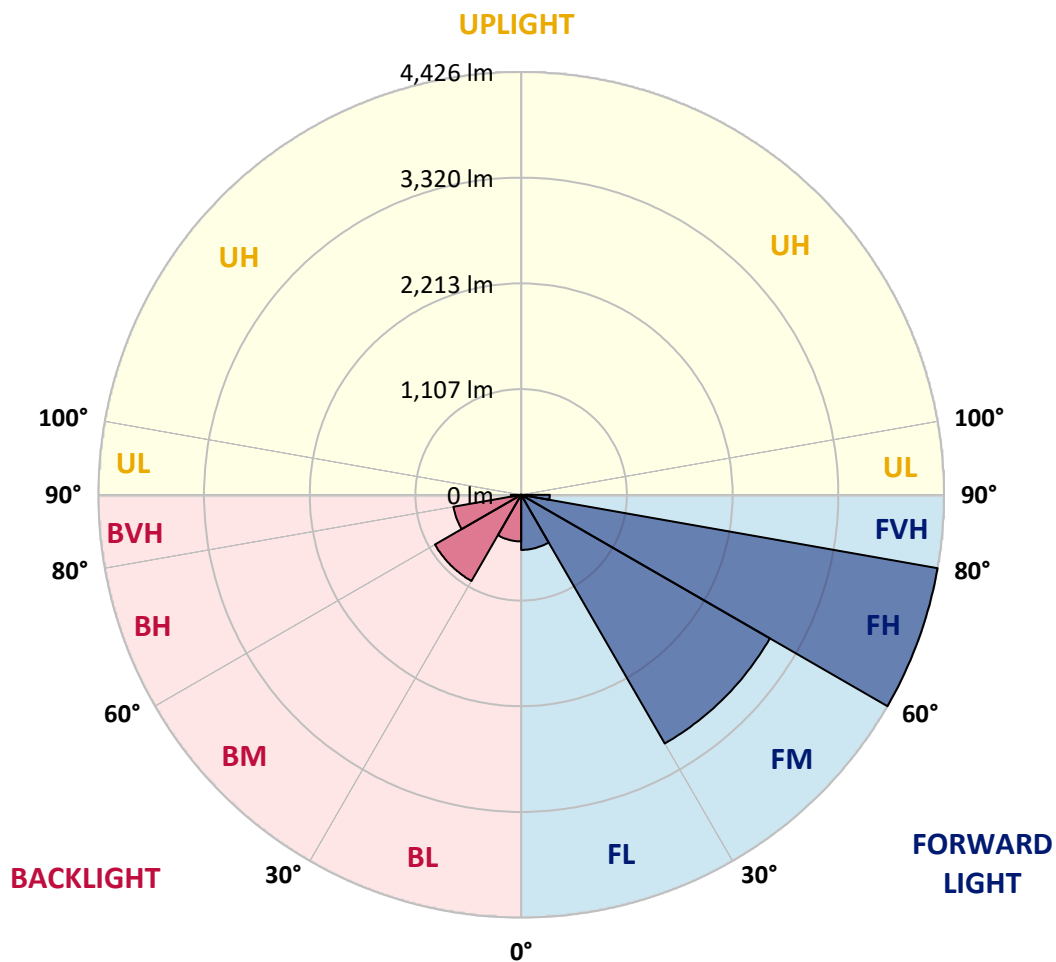
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.5	5.4			
FM (30°-60°)	3006.1	28.2			
FH (60°-80°)	4426.2	41.5			G2/5000
FVH (80°-90°)	299.2	2.8			G3/500
BL (0°-30°)	487.8	4.6	B1/500		
BM (30°-60°)	1041.9	9.8	B2/2500		
BH (60°-80°)	719.5	6.7	B2/1000		G2/1000
BVH (80°-90°)	107.8	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°	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1
2.5°	1184.2	1178.5	1175.6	1175.6	1164.2	1157.1	1155.7	1145.7	1137.2	1128.6	1121.5
5°	1252.6	1248.3	1239.8	1232.6	1217.0	1197.0	1194.2	1172.8	1151.4	1131.5	1114.4
7.5°	1315.3	1306.7	1296.8	1282.5	1256.9	1229.8	1225.5	1195.6	1165.7	1135.7	1112.9
10°	1368.0	1359.5	1345.2	1325.3	1292.5	1259.7	1255.4	1224.1	1192.7	1157.1	1124.3
12.5°	1417.9	1410.8	1389.4	1362.3	1323.8	1293.9	1289.6	1262.6	1229.8	1189.9	1147.1
15°	1460.6	1453.5	1430.7	1399.4	1355.2	1332.4	1326.7	1301.0	1268.3	1225.5	1181.3
17.5°	1482.0	1482.0	1457.8	1423.6	1382.3	1365.2	1360.9	1329.5	1299.6	1258.3	1214.1
20°	1489.1	1492.0	1474.9	1433.6	1397.9	1390.8	1386.5	1360.9	1326.7	1286.8	1245.5
22.5°	1493.4	1499.1	1484.9	1437.8	1407.9	1403.6	1400.8	1383.7	1356.6	1318.1	1276.8
25°	1507.7	1507.7	1497.7	1445.0	1420.7	1419.3	1419.3	1409.3	1390.8	1358.0	1316.7
27.5°	1529.0	1527.6	1514.8	1460.6	1449.2	1453.5	1452.1	1450.7	1437.8	1405.1	1360.9
30°	1564.7	1564.7	1550.4	1492.0	1484.9	1503.4	1504.8	1507.7	1487.7	1436.4	1400.8
32.5°	1618.8	1613.1	1598.9	1523.3	1511.9	1529.0	1531.9	1530.5	1513.4	1464.9	1447.8
35°	1785.5	1772.7	1721.4	1593.2	1536.2	1546.1	1547.6	1554.7	1557.5	1519.1	1510.5
37.5°	2077.7	2060.6	1982.2	1758.5	1613.1	1588.9	1587.5	1606.0	1621.7	1587.5	1587.5
40°	2395.4	2381.2	2335.6	2043.5	1755.6	1675.8	1670.1	1687.2	1707.2	1682.9	1690.1
42.5°	2669.0	2680.4	2684.7	2345.6	1969.4	1838.3	1822.6	1798.4	1829.7	1808.3	1836.8
45°	2874.2	2868.5	2946.9	2654.8	2245.8	2042.0	2020.7	1955.1	1995.0	1993.6	2056.3
47.5°	3092.3	3082.3	3115.1	2945.5	2560.7	2291.4	2258.6	2161.7	2221.6	2262.9	2366.9
50°	3298.9	3301.7	3313.1	3174.9	2902.7	2594.9	2553.6	2423.9	2509.4	2596.4	2743.1
52.5°	3568.2	3548.3	3534.0	3442.8	3286.1	2911.3	2884.2	2736.0	2855.7	2958.3	3153.5
55°	3803.4	3790.5	3782.0	3777.7	3606.7	3260.4	3231.9	3078.0	3250.4	3323.1	3611.0
57.5°	4054.2	4047.0	4092.6	4165.3	4096.9	3615.3	3585.3	3437.1	3629.5	3680.8	4106.9
60°	4238.0	4242.3	4367.7	4552.9	4505.9	4000.0	3964.4	3833.3	3998.6	4044.2	4602.8
62.5°	4239.4	4282.2	4572.9	4904.9	4959.0	4443.2	4401.9	4259.4	4377.6	4377.6	5047.4
65°	3834.7	3883.2	4535.8	4991.8	5417.9	4970.4	4930.5	4706.8	4751.0	4691.1	5464.9
67.5°	3431.4	3488.4	4102.6	4998.9	5739.9	5534.7	5487.7	5154.3	5078.7	4927.7	5757.0
70°	3163.5	3203.4	3716.4	4906.3	5933.7	6124.7	6089.1	5578.9	5336.7	5125.8	5695.8
72.5°	2663.3	2649.1	3139.3	4466.0	6042.0	6794.5	6764.5	6040.6	5560.4	5031.7	4857.9
75°	1546.1	1563.2	1948.0	3271.8	5446.4	7143.6	7140.7	6435.3	5462.1	4444.6	3347.4
77.5°	446.0	458.9	639.8	1437.8	3444.3	6093.3	6288.6	5885.3	4617.0	3167.8	1735.7
80°	195.2	205.2	277.9	478.8	1483.4	3980.1	4151.1	3980.1	2784.5	1453.5	681.2
82.5°	115.4	122.6	181.0	296.4	711.1	1893.8	2124.7	1855.4	1201.3	617.0	282.2
85°	65.6	68.4	104.0	188.1	447.5	662.6	743.9	696.8	585.7	350.6	148.2
87.5°	29.9	31.4	51.3	88.4	250.8	223.7	232.3	307.8	339.2	213.8	74.1
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°	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1	1120.1
2.5°	1118.6	1114.4	1105.8	1103.0	1098.7	1100.1	1101.5	1101.5	1103.0	1098.7	1098.7
5°	1107.2	1100.1	1091.6	1091.6	1091.6	1103.0	1112.9	1118.6	1121.5	1121.5	1118.6
7.5°	1103.0	1094.4	1084.4	1087.3	1090.1	1104.4	1122.9	1141.4	1147.1	1147.1	1144.3
10°	1111.5	1103.0	1095.8	1100.1	1107.2	1118.6	1132.9	1150.0	1164.2	1165.7	1164.2
12.5°	1131.5	1121.5	1114.4	1122.9	1131.5	1138.6	1145.7	1152.8	1171.4	1174.2	1174.2
15°	1164.2	1154.3	1145.7	1152.8	1155.7	1155.7	1155.7	1155.7	1174.2	1177.1	1177.1
17.5°	1197.0	1188.5	1179.9	1181.3	1172.8	1161.4	1157.1	1155.7	1165.7	1174.2	1175.6
20°	1228.4	1221.2	1212.7	1198.4	1177.1	1155.7	1148.6	1148.6	1154.3	1167.1	1167.1
22.5°	1262.6	1254.0	1239.8	1207.0	1171.4	1141.4	1134.3	1138.6	1145.7	1162.8	1161.4
25°	1301.0	1289.6	1265.4	1204.1	1152.8	1117.2	1118.6	1131.5	1144.3	1162.8	1162.8
27.5°	1343.8	1328.1	1279.7	1181.3	1111.5	1077.3	1090.1	1120.1	1138.6	1158.5	1161.4
30°	1390.8	1376.6	1291.1	1141.4	1044.5	1013.2	1044.5	1093.0	1121.5	1140.0	1144.3
32.5°	1447.8	1436.4	1301.0	1090.1	957.6	930.5	976.1	1036.0	1081.6	1103.0	1107.2
35°	1519.1	1507.7	1313.9	1031.7	876.4	847.9	889.2	950.5	1010.3	1037.4	1046.0
37.5°	1611.7	1594.6	1325.3	969.0	808.0	775.2	795.2	850.7	904.9	941.9	951.9
40°	1730.0	1702.9	1335.2	897.8	748.1	711.1	718.2	745.3	776.6	809.4	822.2
42.5°	1896.7	1842.5	1336.7	822.2	686.9	652.7	649.8	658.4	658.4	658.4	662.6
45°	2129.0	2026.4	1339.5	751.0	624.2	588.5	580.0	577.1	555.8	514.4	511.6
47.5°	2422.5	2267.2	1352.3	691.1	558.6	527.3	515.9	504.5	464.6	421.8	413.3
50°	2798.7	2546.5	1378.0	634.1	503.0	481.7	467.4	440.3	396.2	363.4	354.8
52.5°	3231.9	2878.5	1402.2	574.3	461.7	447.5	430.4	397.6	350.6	330.6	327.8
55°	3729.3	3249.0	1450.7	521.6	426.1	416.1	400.4	369.1	333.5	319.2	317.8
57.5°	4238.0	3663.7	1519.1	474.5	391.9	386.2	386.2	359.1	336.3	330.6	330.6
60°	4728.2	4020.0	1466.3	430.4	360.5	363.4	390.5	383.3	366.2	373.4	377.6
62.5°	5108.7	4229.4	1189.9	394.7	337.7	363.4	433.2	433.2	413.3	410.4	410.4
65°	5271.1	4226.6	836.5	367.7	329.2	399.0	483.1	460.3	407.6	387.6	383.3
67.5°	5229.8	4041.3	577.1	349.1	326.3	436.1	505.9	441.8	381.9	364.8	352.0
70°	4866.4	3649.5	444.6	332.0	322.1	420.4	498.8	420.4	362.0	346.3	334.9
72.5°	3925.9	2927.0	369.1	314.9	305.0	389.0	474.5	400.4	346.3	329.2	317.8
75°	2503.7	1841.1	312.1	292.1	272.2	349.1	441.8	380.5	329.2	306.4	297.8
77.5°	1204.1	793.7	272.2	265.1	245.1	323.5	409.0	354.8	306.4	287.9	282.2
80°	487.4	363.4	236.6	238.0	225.2	307.8	386.2	330.6	283.6	263.6	253.7
82.5°	253.7	210.9	199.5	205.2	205.2	293.6	369.1	310.7	263.6	255.1	222.3
85°	136.8	131.1	153.9	165.3	178.1	265.1	343.4	289.3	240.8	206.6	199.5
87.5°	67.0	85.5	86.9	99.8	124.0	212.3	289.3	242.3	200.9	166.7	163.9
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)