

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: P573344

Luminaire Tested: **ARCH-S-PA2-60-760-U-T4W**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573344  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-60-760-U-T4W  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9428 lumens  
Efficiency: N/A  
Efficacy: 149.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

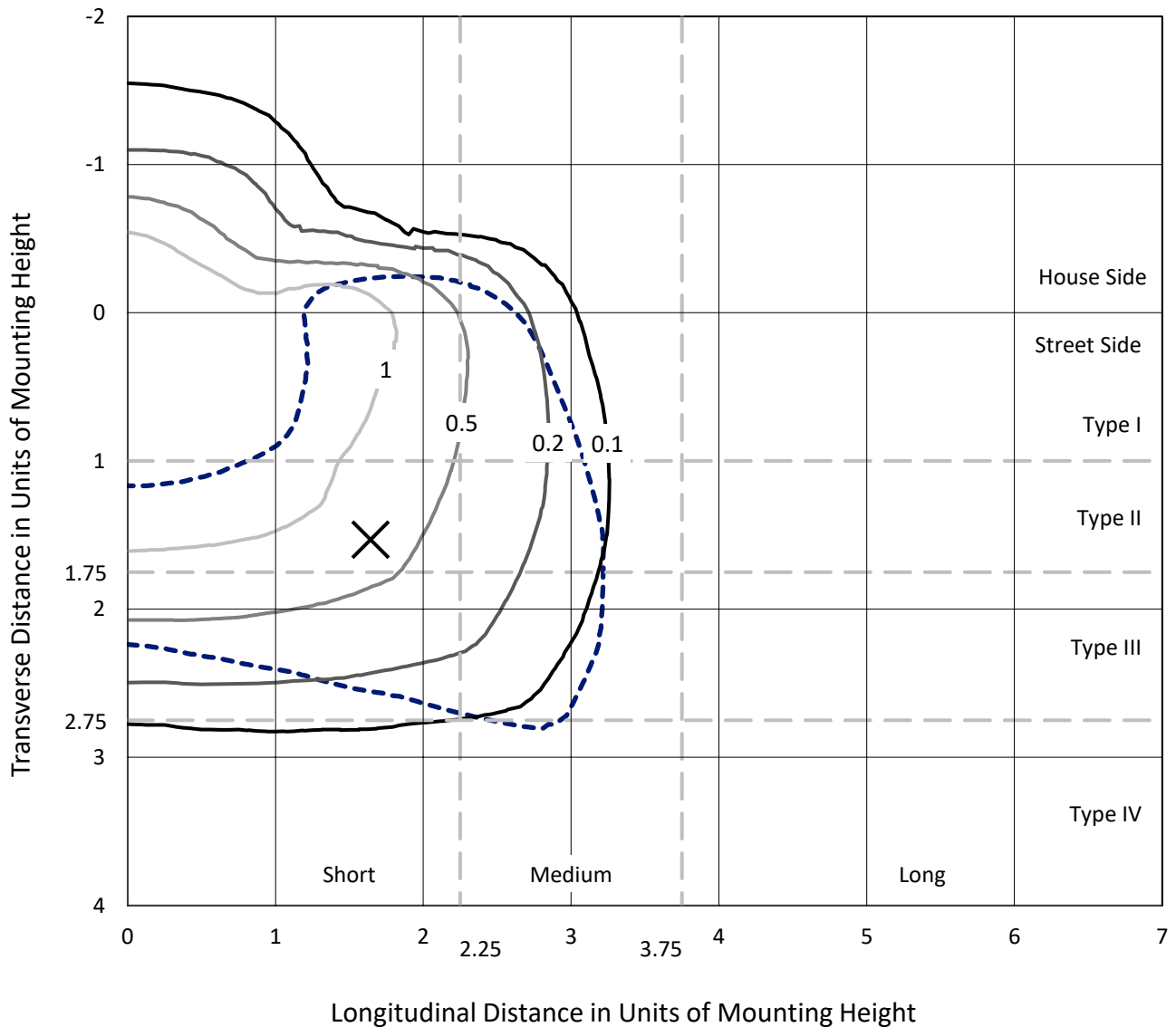
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

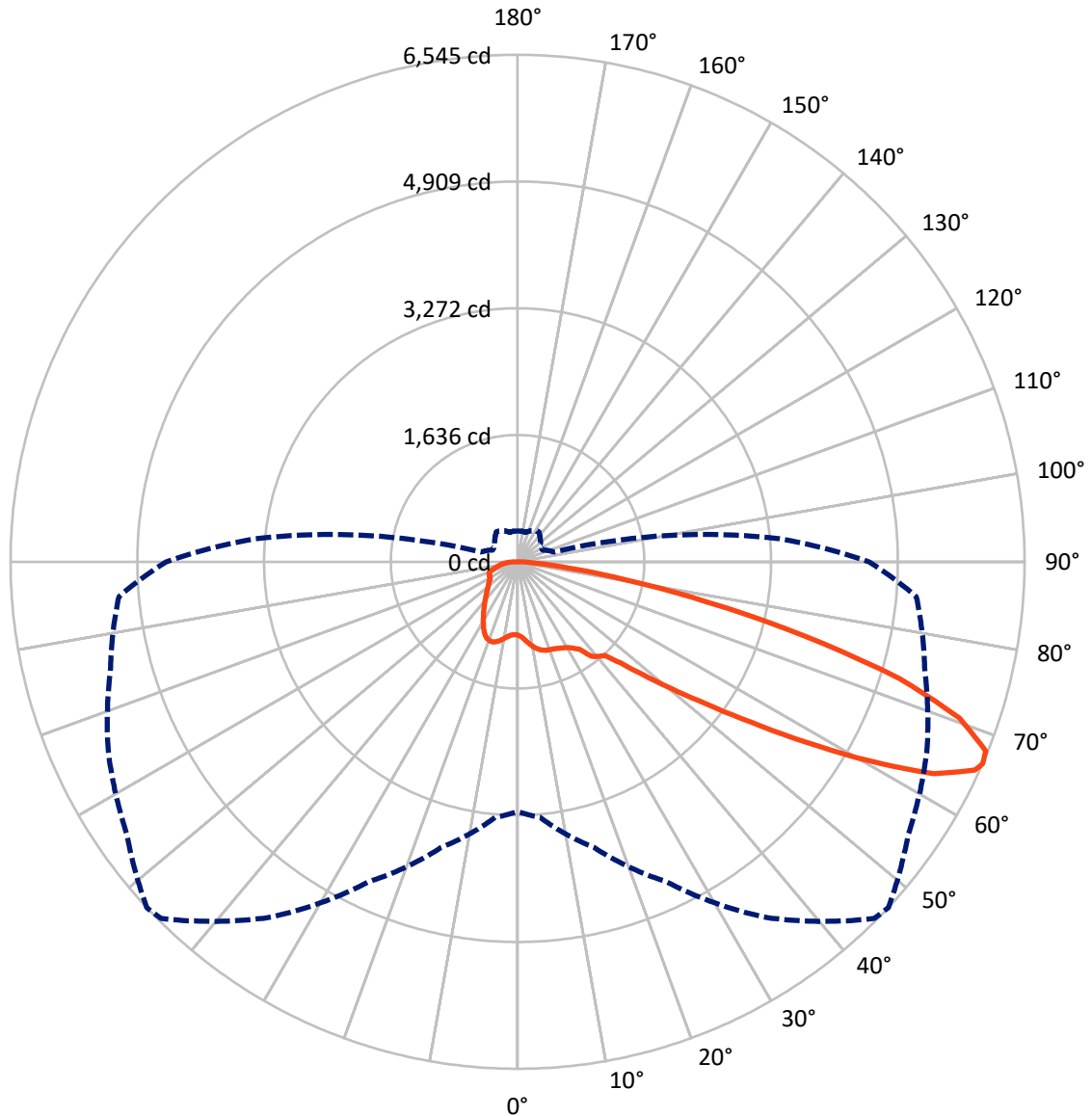
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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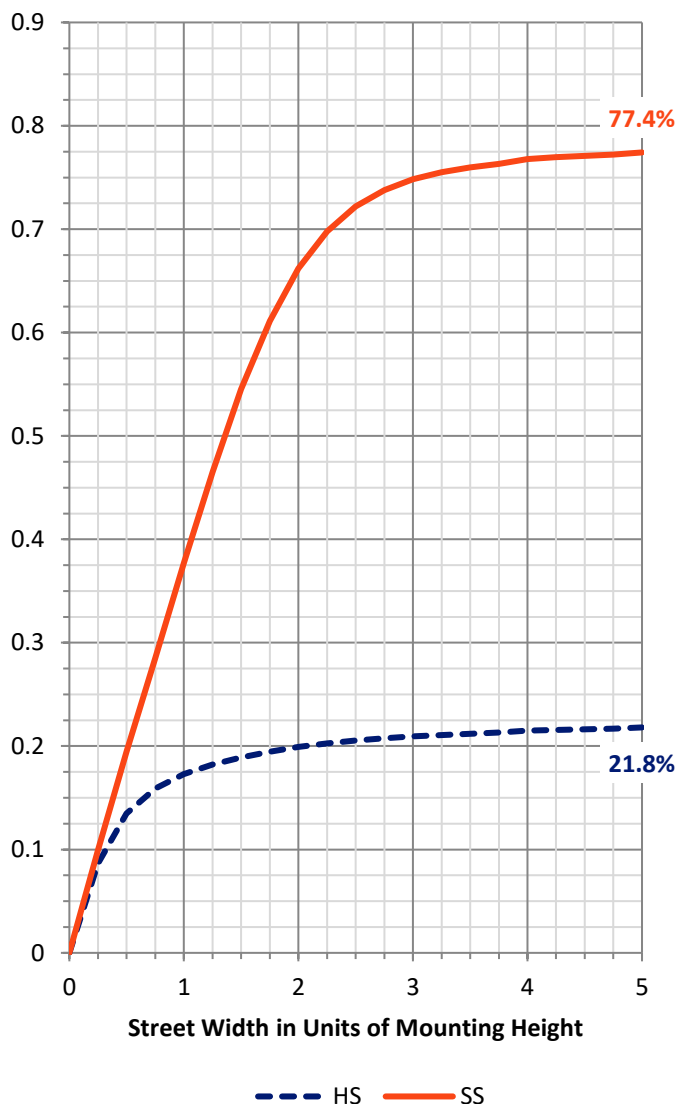
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2096.1	0.0	2096.1
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	7331.9	0.0	7331.9
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	9428.0	0.0	9428.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.4	1.0
10°-20°	316.4	3.4
20°-30°	527.8	5.6
30°-40°	766.4	8.1
40°-50°	1172.1	12.4
50°-60°	2215.6	23.5
60°-70°	2862.9	30.4
70°-80°	1286.8	13.6
80°-90°	183.5	1.9
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°	9428.0	100.0
0°-180°	9428.0	100.0

**Coefficient of Utilization**



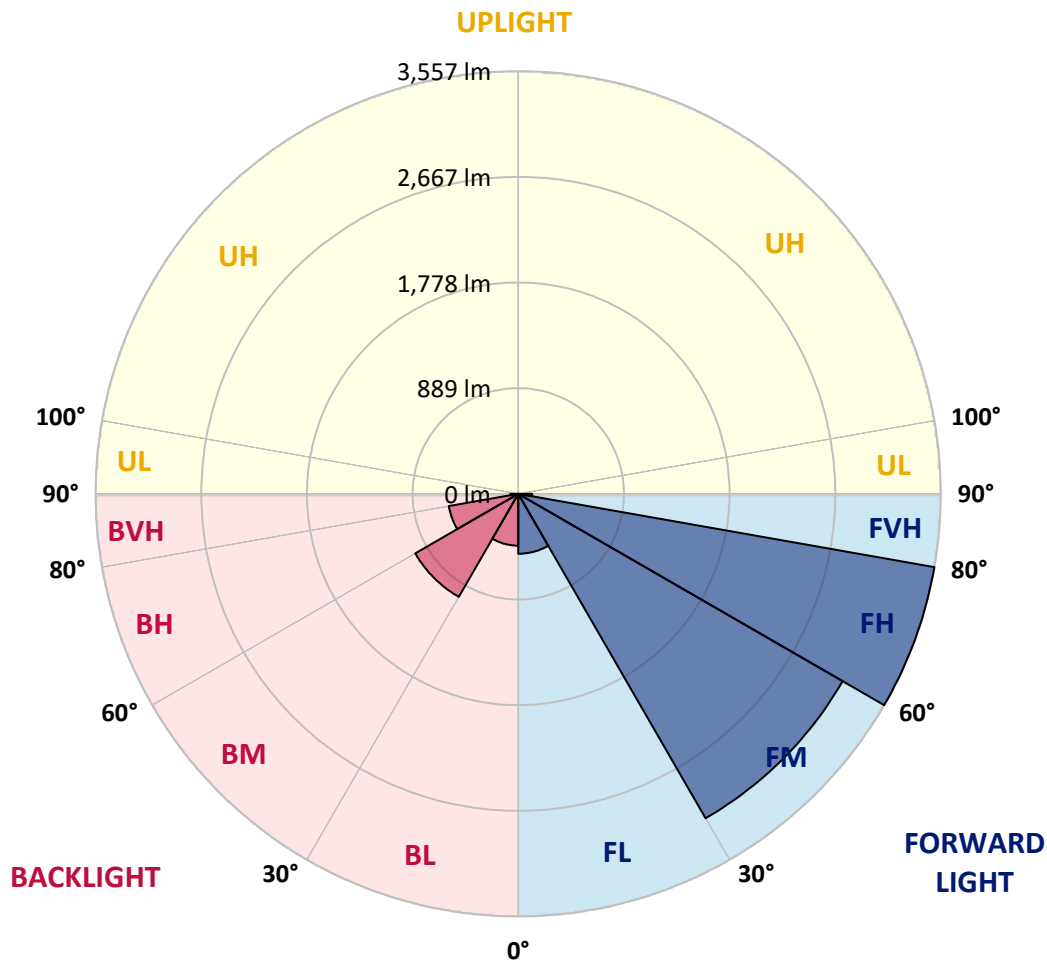
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 CATALOG NUMBER: ARCH-S-PA2-60-760-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	504.4	5.4			
FM (30°-60°)	3152.9	33.4			
FH (60°-80°)	3556.6	37.7			G2/5000
FVH (80°-90°)	117.9	1.3			G2/225
BL (0°-30°)	436.2	4.6	B1/500		
BM (30°-60°)	1001.2	10.6	B2/2500		
BH (60°-80°)	593.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	65.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8
2.5°	1001.6	993.9	988.8	986.2	981.1	970.9	970.9	968.3	958.0	952.9	950.4
5°	1081.0	1075.9	1063.1	1052.8	1037.5	1017.0	1014.4	999.0	978.5	963.2	952.9
7.5°	1157.9	1152.7	1139.9	1124.6	1098.9	1073.3	1065.6	1045.1	1011.8	988.8	970.9
10°	1224.5	1216.8	1201.4	1180.9	1152.7	1124.6	1116.9	1093.8	1060.5	1027.2	996.5
12.5°	1268.0	1262.9	1244.9	1219.3	1188.6	1160.4	1155.3	1134.8	1101.5	1065.6	1027.2
15°	1288.5	1285.9	1265.4	1239.8	1209.1	1186.0	1183.5	1165.5	1137.4	1101.5	1058.0
17.5°	1283.4	1280.8	1262.9	1237.3	1214.2	1201.4	1201.4	1188.6	1165.5	1134.8	1088.7
20°	1257.8	1257.8	1242.4	1224.5	1211.6	1209.1	1209.1	1206.5	1191.2	1165.5	1119.4
22.5°	1232.1	1232.1	1221.9	1209.1	1206.5	1216.8	1219.3	1224.5	1219.3	1198.8	1157.9
25°	1237.3	1234.7	1221.9	1206.5	1209.1	1232.1	1237.3	1250.1	1247.5	1232.1	1196.3
27.5°	1293.6	1291.1	1257.8	1227.0	1224.5	1252.6	1257.8	1275.7	1275.7	1262.9	1239.8
30°	1434.5	1439.6	1378.2	1301.3	1262.9	1280.8	1285.9	1306.4	1316.7	1321.8	1303.9
32.5°	1649.7	1642.0	1549.8	1424.3	1339.7	1321.8	1329.5	1347.4	1383.3	1393.5	1350.0
35°	1867.4	1872.5	1782.9	1624.1	1462.7	1396.1	1391.0	1416.6	1470.4	1424.3	1347.4
37.5°	2069.8	2062.1	1957.1	1785.5	1624.1	1547.2	1549.8	1539.5	1493.4	1401.2	1365.3
40°	2290.1	2269.6	2182.5	1962.2	1757.3	1629.2	1606.1	1519.0	1480.6	1442.2	1437.1
42.5°	2507.8	2510.4	2438.7	2220.9	1916.1	1688.1	1652.2	1562.6	1588.2	1580.5	1575.4
45°	2781.9	2781.9	2710.2	2507.8	2167.1	1908.4	1859.7	1752.2	1793.1	1823.9	1885.4
47.5°	3033.0	3017.6	2997.1	2825.5	2495.0	2195.3	2174.8	2051.9	2159.4	2254.2	2379.7
50°	3299.4	3278.9	3266.1	3161.0	2925.4	2630.8	2569.3	2441.2	2676.9	2853.6	3086.8
52.5°	3714.4	3678.5	3611.9	3553.0	3460.8	3120.1	3043.2	2948.4	3253.3	3476.1	3952.6
55°	4088.4	4057.6	3993.6	4037.1	4024.3	3714.4	3647.8	3558.1	3888.5	4160.1	4705.7
57.5°	4226.7	4229.2	4316.3	4549.4	4672.4	4493.1	4398.3	4308.7	4587.9	4713.4	5205.2
60°	4290.7	4283.0	4508.5	4887.6	5287.2	5341.0	5220.6	5036.2	5141.2	5148.9	5627.9
62.5°	4152.4	4172.9	4482.8	5028.5	5656.1	6042.9	6024.9	5702.2	5604.8	5497.2	5740.6
65°	3627.3	3655.4	4111.4	4777.4	5715.0	6468.1	6486.0	6109.5	5837.9	5538.2	5420.4
66°	3227.6	3312.2	3819.4	4559.7	5607.4	6511.6	6544.9	6153.0	5827.7	5440.9	5166.8
67.5°	2707.6	2702.5	3268.6	4080.7	5307.7	6473.2	6516.8	6091.5	5689.4	5154.0	4659.6
70°	1657.4	1708.6	2195.3	3045.8	4393.2	5994.2	6053.1	5658.6	5092.5	4365.0	3445.4
72.5°	850.5	935.0	1255.2	1980.1	3189.2	4954.2	5154.0	4751.8	4162.6	3158.5	2103.1
75°	450.8	445.7	591.7	1073.3	2036.5	3716.9	3821.9	3563.2	2876.7	1882.8	1070.8
77.5°	240.8	253.6	310.0	550.7	1119.4	2374.6	2507.8	2297.8	1639.4	963.2	512.3
80°	163.9	171.6	210.1	310.0	607.1	1288.5	1411.5	1224.5	858.1	456.0	240.8
82.5°	105.0	110.1	143.5	192.1	363.8	625.0	658.3	627.6	420.1	258.7	146.0
85°	64.0	66.6	87.1	123.0	228.0	253.6	263.8	266.4	235.7	169.1	79.4
87.5°	30.7	33.3	48.7	61.5	107.6	92.2	84.5	87.1	130.6	99.9	35.9
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°	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8
2.5°	947.8	945.2	940.1	937.6	940.1	940.1	940.1	942.7	947.8	947.8	950.4
5°	947.8	942.7	937.6	937.6	942.7	947.8	952.9	963.2	968.3	970.9	970.9
7.5°	960.6	955.5	950.4	950.4	958.0	968.3	978.5	991.3	1004.2	1014.4	1014.4
10°	986.2	978.5	973.4	976.0	988.8	1001.6	1014.4	1029.8	1042.6	1055.4	1055.4
12.5°	1014.4	1006.7	999.0	1004.2	1022.1	1037.5	1050.3	1058.0	1070.8	1081.0	1081.0
15°	1042.6	1029.8	1027.2	1037.5	1055.4	1065.6	1070.8	1070.8	1075.9	1086.1	1086.1
17.5°	1073.3	1060.5	1058.0	1068.2	1083.6	1083.6	1073.3	1065.6	1063.1	1070.8	1073.3
20°	1104.1	1091.3	1091.3	1098.9	1096.4	1078.4	1060.5	1047.7	1037.5	1045.1	1047.7
22.5°	1142.5	1129.7	1124.6	1114.3	1091.3	1055.4	1027.2	1011.8	1004.2	1009.3	1014.4
25°	1180.9	1170.7	1157.9	1122.0	1068.2	1011.8	976.0	963.2	965.7	976.0	981.1
27.5°	1229.6	1224.5	1193.7	1116.9	1027.2	950.4	914.5	911.9	922.2	937.6	945.2
30°	1288.5	1280.8	1227.0	1101.5	970.9	878.6	853.0	858.1	873.5	886.3	894.0
32.5°	1329.5	1324.4	1242.4	1065.6	901.7	814.6	794.1	794.1	801.8	819.7	827.4
35°	1342.3	1362.8	1252.6	1011.8	819.7	758.2	737.7	724.9	724.9	740.3	745.4
37.5°	1385.8	1431.9	1257.8	940.1	753.1	707.0	681.4	658.3	650.7	648.1	648.1
40°	1485.7	1539.5	1255.2	847.9	689.1	655.8	625.0	599.4	578.9	550.7	553.3
42.5°	1659.9	1700.9	1247.5	750.6	632.7	609.7	578.9	548.2	514.9	484.1	481.6
45°	1995.5	1934.0	1227.0	666.0	581.5	568.7	540.5	504.6	463.7	435.5	435.5
47.5°	2525.8	2356.7	1214.2	586.6	535.4	532.8	507.2	468.8	427.8	407.3	404.7
50°	3253.3	2940.7	1234.7	530.3	494.4	502.1	481.6	445.7	412.4	394.5	391.9
52.5°	4088.4	3568.3	1257.8	494.4	463.7	479.0	468.8	435.5	402.2	386.8	384.2
55°	4733.9	4078.1	1224.5	461.1	432.9	456.0	456.0	425.2	397.1	381.7	381.7
57.5°	5187.3	4283.0	1109.2	430.4	407.3	435.5	443.2	420.1	394.5	389.4	389.4
60°	5382.0	4272.8	906.8	402.2	389.4	415.0	435.5	415.0	399.6	412.4	415.0
62.5°	5276.9	4049.9	704.4	381.7	376.6	409.9	443.2	435.5	417.5	427.8	432.9
65°	4803.0	3658.0	530.3	363.8	361.2	412.4	463.7	448.3	404.7	407.3	409.9
66°	4536.6	3394.2	486.7	358.6	356.1	415.0	473.9	443.2	394.5	399.6	397.1
67.5°	3968.0	2979.2	427.8	348.4	345.8	415.0	486.7	432.9	381.7	389.4	381.7
70°	2910.0	2108.2	366.3	335.6	330.4	407.3	484.1	412.4	353.5	348.4	335.6
72.5°	1688.1	1275.7	325.3	320.2	307.4	358.6	453.4	379.1	322.8	307.4	294.6
75°	830.0	648.1	289.5	302.3	269.0	315.1	409.9	350.9	297.1	276.7	269.0
77.5°	381.7	327.9	261.3	276.7	238.2	271.5	374.0	320.2	263.8	233.1	225.4
80°	207.5	204.9	220.3	230.5	199.8	238.2	330.4	279.2	222.9	189.6	179.3
82.5°	128.1	130.6	161.4	176.8	156.3	207.5	292.0	233.1	169.1	133.2	135.8
85°	66.6	74.3	107.6	117.8	102.5	153.7	220.3	156.3	94.8	69.2	69.2
87.5°	23.1	30.7	53.8	64.0	56.4	92.2	138.3	74.3	20.5	0.0	0.0
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)