

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: P265593

Luminaire Tested: **ARCH-L-AF72-110-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-110-D-U-T2U-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9238.7 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

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

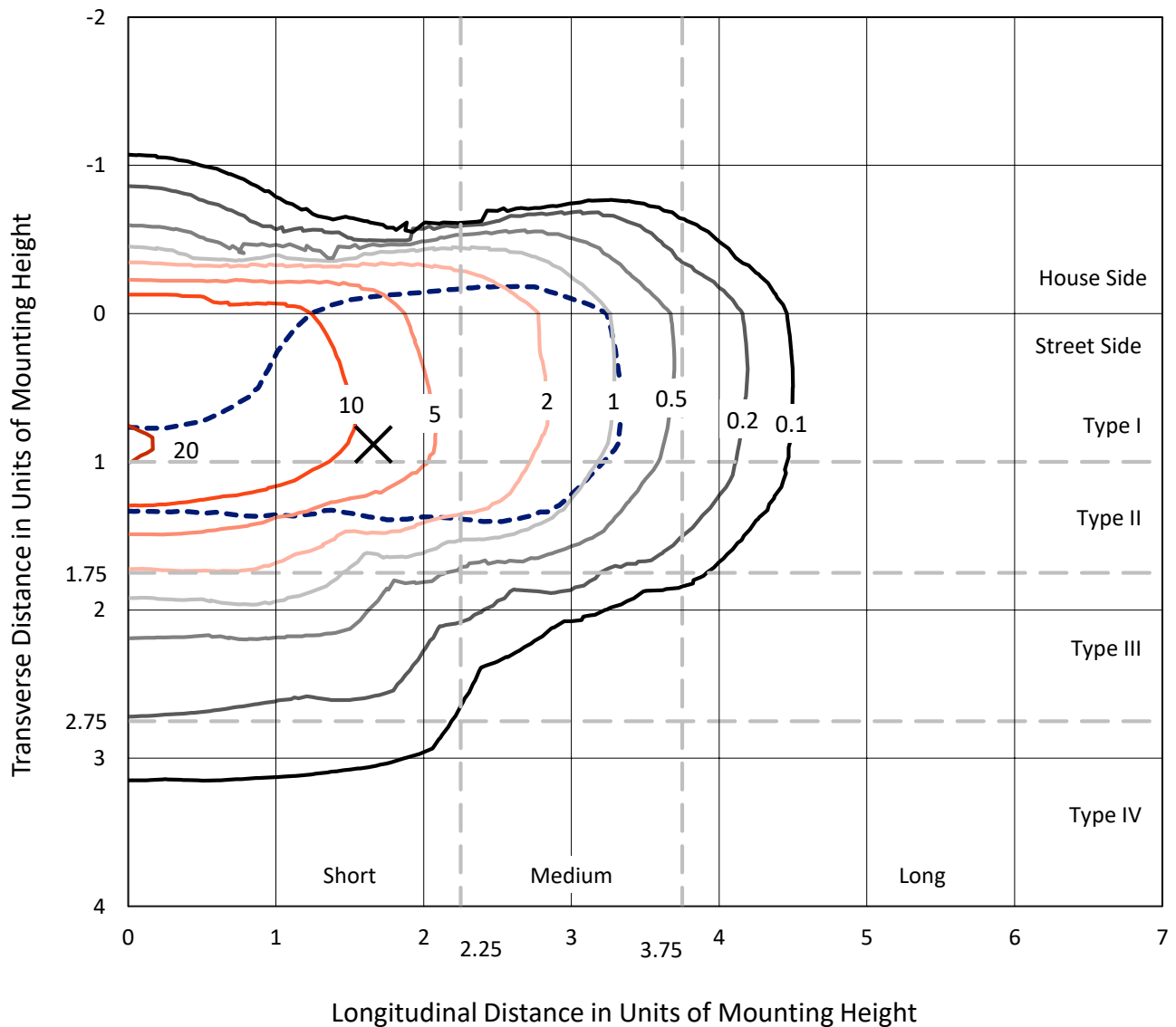


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

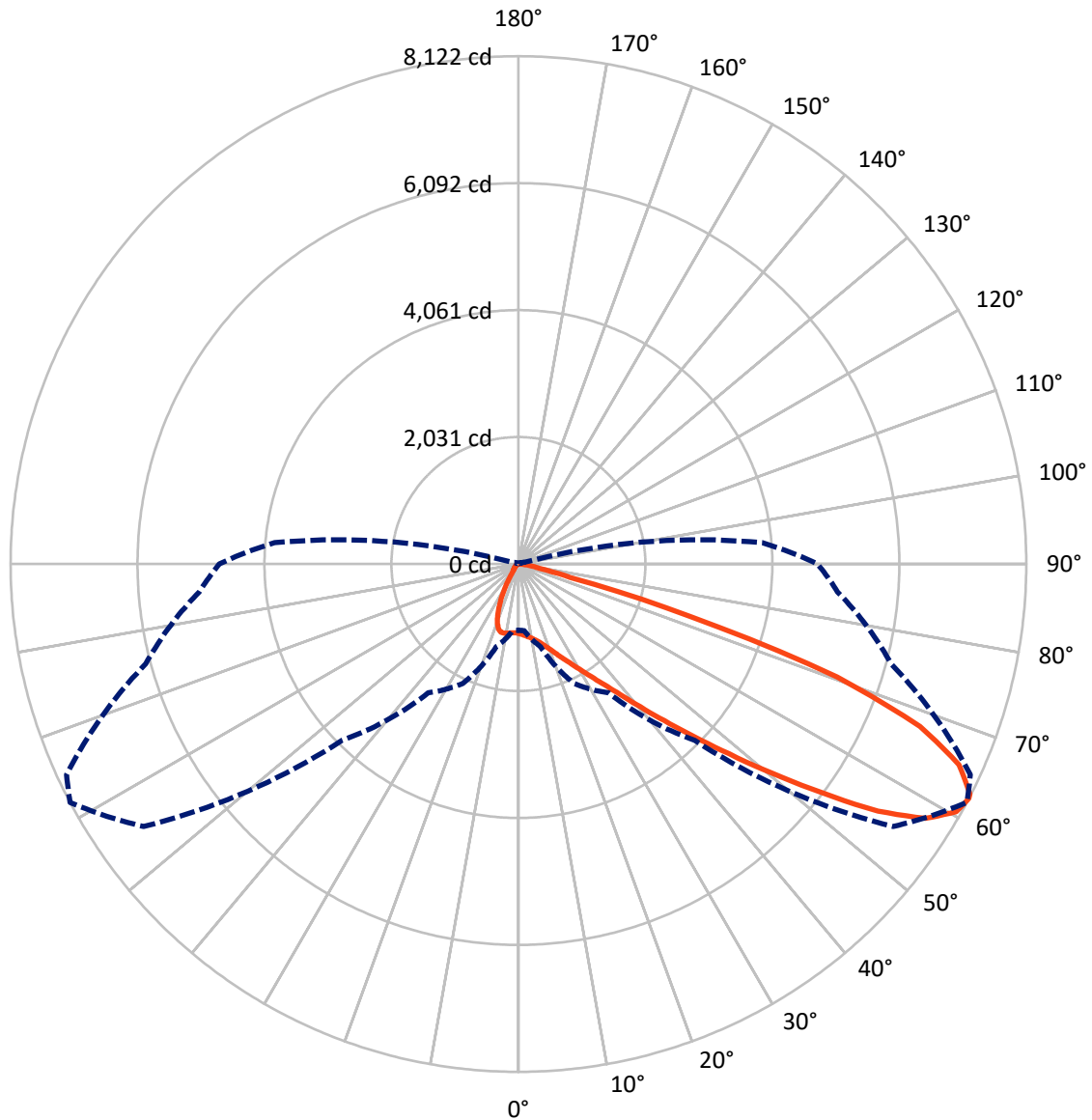


Based on 10 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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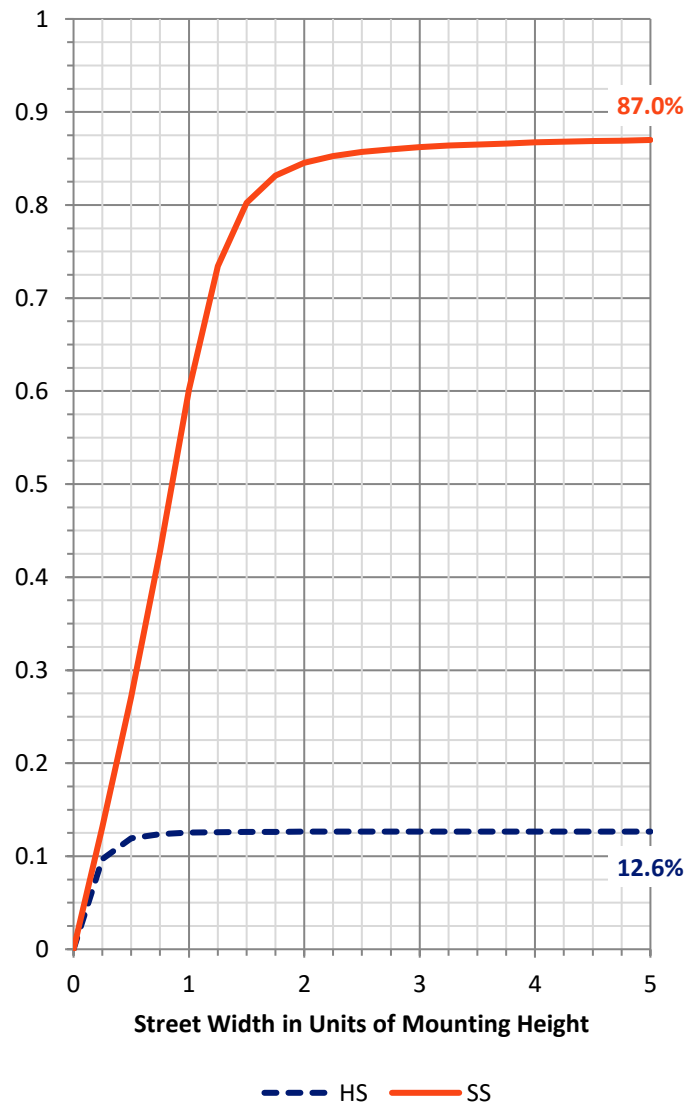
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1181.3	0.0	1181.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	8057.4	0.0	8057.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	9238.7	0.0	9238.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	1.2
10°-20°	299.1	3.2
20°-30°	502.3	5.4
30°-40°	962.9	10.4
40°-50°	1966.7	21.3
50°-60°	2602.6	28.2
60°-70°	2021.8	21.9
70°-80°	729.8	7.9
80°-90°	46.5	0.5
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°	9238.7	100.0
0°-180°	9238.7	100.0

Coefficient of Utilization



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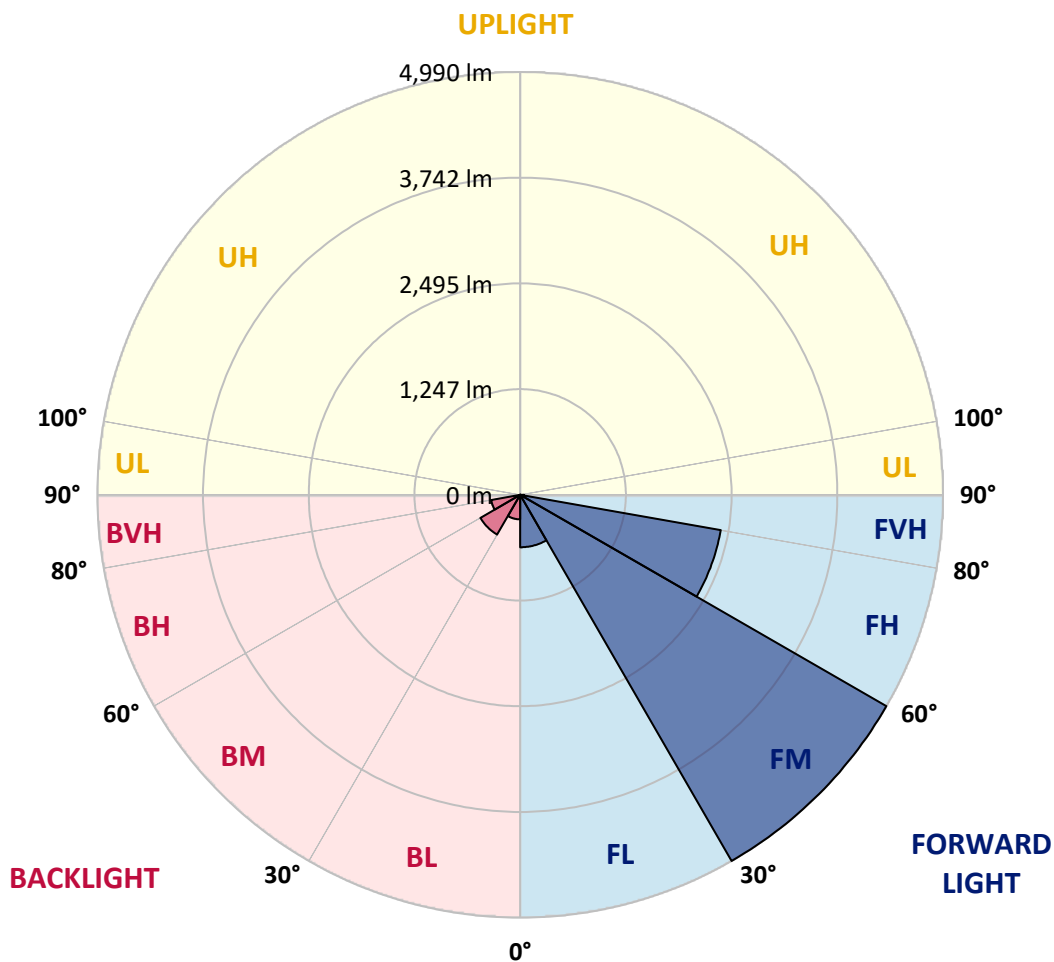
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	619.4	6.7			
FM	(30°-60°)	4989.8	54.0			
FH	(60°-80°)	2403.7	26.0			G2/5000
FVH	(80°-90°)	44.5	0.5			G1/100
BL	(0°-30°)	289.1	3.1	B1/500		
BM	(30°-60°)	542.3	5.9	B1/1000		
BH	(60°-80°)	347.8	3.8	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9
2.5°	1142.5	1140.2	1138.0	1135.6	1135.6	1133.3	1131.1	1126.6	1122.1	1117.4	1115.2
5°	1162.9	1160.6	1158.4	1160.6	1158.4	1158.4	1156.1	1151.5	1147.0	1140.2	1133.3
7.5°	1178.8	1176.5	1174.3	1176.5	1178.8	1181.0	1183.3	1178.8	1176.5	1167.4	1160.6
10°	1199.2	1196.9	1194.7	1199.2	1199.2	1210.6	1212.8	1210.6	1208.3	1201.6	1190.2
12.5°	1228.7	1231.0	1231.0	1235.6	1240.1	1253.8	1258.3	1251.5	1251.5	1242.4	1228.7
15°	1283.3	1283.3	1283.3	1287.8	1290.1	1308.2	1312.9	1306.0	1310.4	1294.5	1281.1
17.5°	1335.5	1337.8	1342.2	1351.4	1351.4	1367.3	1376.5	1376.5	1385.5	1365.1	1346.9
20°	1387.7	1389.9	1396.9	1417.3	1417.3	1437.6	1453.5	1460.5	1469.4	1449.1	1417.3
22.5°	1444.6	1444.6	1456.0	1487.7	1480.9	1521.8	1551.3	1562.6	1571.8	1544.5	1494.5
25°	1530.8	1521.8	1530.8	1560.4	1555.9	1612.5	1667.2	1678.5	1689.8	1658.0	1583.1
27.5°	1694.4	1680.6	1649.0	1651.3	1651.3	1717.1	1794.4	1810.3	1817.0	1789.8	1696.5
30°	2021.5	2021.5	1903.2	1823.7	1771.5	1830.7	1939.7	1966.8	1976.0	1935.0	1812.5
32.5°	2591.5	2591.5	2373.5	2171.4	1973.8	1973.8	2098.6	2148.7	2157.6	2109.9	1966.8
35°	3318.2	3313.8	2986.8	2709.6	2323.5	2178.1	2284.8	2368.9	2396.1	2332.5	2166.8
37.5°	4090.5	4061.0	3709.0	3391.0	2861.8	2505.3	2537.1	2648.4	2673.3	2621.1	2425.8
40°	4717.4	4683.4	4399.4	4133.7	3556.7	3027.6	2900.4	3002.7	3032.0	2959.5	2734.6
42.5°	5285.3	5201.1	5005.9	4815.1	4356.3	3931.5	3384.2	3425.1	3456.9	3379.7	3082.2
45°	5696.3	5566.8	5466.9	5407.8	5164.9	4924.1	4011.0	3929.2	3940.7	3845.3	3461.3
47.5°	5707.7	5616.8	5625.9	5780.4	5880.3	5871.2	4826.5	4535.7	4492.6	4333.6	3865.6
50°	5162.6	5214.8	5380.6	5821.2	6361.7	6688.9	5796.3	5253.5	5124.0	4837.8	4267.7
52.5°	4254.1	4335.8	4647.0	5389.7	6432.3	7227.1	6802.4	6073.4	5841.7	5337.5	4576.7
55°	3332.0	3336.5	3663.6	4419.9	5962.1	7324.8	7606.5	6975.1	6620.8	5716.8	4781.0
57.5°	2291.7	2416.6	2832.3	3341.1	4901.4	6838.7	7908.6	7674.6	7218.2	5950.7	4924.1
60°	1501.2	1508.2	1991.9	2580.1	3336.5	5564.6	7724.5	8044.9	7701.9	6089.3	5021.7
62°	1058.5	1069.8	1369.6	2107.8	2514.3	3988.4	7318.0	8122.0	7974.4	6171.0	5124.0
62.5°	981.2	990.3	1242.4	1989.7	2362.2	3577.2	7172.6	8103.9	8015.2	6198.2	5160.4
65°	720.0	720.0	813.1	1367.3	1730.8	1932.9	6077.9	7742.8	7960.8	6416.4	5296.5
67.5°	556.5	561.0	592.8	842.6	1306.0	1172.0	3879.3	6929.6	7393.1	6738.8	5373.8
70°	479.2	477.0	499.6	558.7	942.6	779.0	1707.9	5407.8	6191.5	6657.1	5303.5
72.5°	354.3	356.5	408.8	490.6	656.4	506.5	772.3	2870.9	4015.7	5210.3	4544.9
75°	227.1	229.3	288.4	386.1	472.4	331.7	445.2	856.3	1644.3	2889.0	2780.1
77.5°	152.2	156.8	188.6	270.3	413.4	206.7	279.4	358.9	495.1	1083.4	997.1
80°	102.1	102.1	120.4	181.6	261.1	172.7	149.8	238.5	256.6	336.1	168.1
82.5°	68.1	68.1	79.5	120.4	170.4	154.5	90.9	129.4	149.8	168.1	59.1
85°	41.0	41.0	54.4	75.0	111.3	86.2	59.1	72.8	77.3	106.8	31.8
87.5°	25.1	22.6	36.3	52.2	59.1	52.2	38.5	38.5	41.0	59.1	15.9
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°	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9
2.5°	1110.7	1108.4	1106.2	1101.5	1094.8	1090.3	1085.6	1081.1	1076.6	1076.6	1083.4
5°	1131.1	1124.3	1115.2	1106.2	1092.5	1083.4	1076.6	1067.5	1063.0	1063.0	1065.2
7.5°	1156.1	1149.2	1133.3	1117.4	1097.0	1081.1	1065.2	1044.8	1028.9	1022.1	1028.9
10°	1183.3	1174.3	1151.5	1126.6	1103.8	1063.0	1010.8	947.2	892.6	867.7	879.0
12.5°	1217.5	1206.1	1178.8	1144.7	1092.5	992.5	863.1	715.4	622.3	579.1	588.3
15°	1267.4	1251.5	1212.8	1160.6	1044.8	829.0	617.8	447.4	361.1	324.7	329.3
17.5°	1326.3	1306.0	1253.8	1156.1	922.1	597.4	367.9	261.1	224.8	215.8	215.8
20°	1389.9	1362.8	1294.5	1122.1	735.9	374.8	229.3	199.9	186.3	179.4	179.4
22.5°	1456.0	1419.5	1328.8	1042.6	524.7	234.0	188.6	168.1	152.2	145.3	145.3
25°	1535.4	1487.7	1362.8	904.0	333.9	188.6	161.2	140.9	125.0	115.8	118.0
27.5°	1628.4	1567.2	1392.4	731.3	215.8	163.5	133.9	113.5	99.9	95.4	95.4
30°	1726.2	1653.5	1399.1	547.3	174.9	140.9	111.3	93.2	84.0	79.5	79.5
32.5°	1860.2	1764.8	1378.7	363.5	147.6	118.0	93.2	77.3	70.3	68.1	68.1
35°	2037.4	1910.2	1331.0	224.8	125.0	97.6	77.3	68.1	61.4	59.1	59.1
37.5°	2262.2	2112.3	1246.9	154.5	106.8	79.5	65.8	59.1	54.4	52.2	52.2
40°	2562.0	2357.6	1138.0	133.9	90.9	68.1	56.9	52.2	47.7	47.7	47.7
42.5°	2880.0	2655.1	997.1	118.0	77.3	59.1	49.9	45.5	43.2	41.0	41.0
45°	3227.5	2959.5	822.2	104.5	65.8	52.2	45.5	38.5	36.3	36.3	36.3
47.5°	3572.6	3272.9	631.4	90.9	56.9	45.5	38.5	34.0	31.8	29.6	29.6
50°	3927.0	3556.7	463.3	79.5	49.9	41.0	34.0	29.6	25.1	22.6	22.6
52.5°	4183.6	3727.2	338.4	68.1	43.2	34.0	27.3	22.6	18.1	15.9	15.9
55°	4372.2	3831.6	247.6	56.9	38.5	29.6	22.6	18.1	13.7	13.7	11.4
57.5°	4519.8	3881.5	186.3	49.9	34.0	25.1	18.1	13.7	11.4	9.2	9.2
60°	4633.4	3883.8	138.6	41.0	29.6	20.4	13.7	9.2	6.7	6.7	6.7
62°	4783.3	3913.3	113.5	34.0	27.3	18.1	11.4	6.7	4.5	2.2	2.2
62.5°	4826.5	3924.8	109.1	34.0	25.1	15.9	9.2	6.7	4.5	2.2	2.2
65°	5026.2	3945.1	84.0	27.3	20.4	13.7	6.7	4.5	0.0	0.0	0.0
67.5°	5208.1	3913.3	61.4	20.4	15.9	9.2	6.7	2.2	0.0	0.0	0.0
70°	5189.9	3695.4	43.2	13.7	11.4	6.7	4.5	0.0	0.0	0.0	0.0
72.5°	4276.8	2766.4	29.6	11.4	6.7	4.5	2.2	0.0	0.0	0.0	0.0
75°	2582.4	1210.6	20.4	6.7	6.7	4.5	2.2	0.0	0.0	0.0	0.0
77.5°	847.2	438.4	13.7	4.5	4.5	2.2	2.2	0.0	0.0	0.0	0.0
80°	138.6	72.8	6.7	4.5	4.5	2.2	2.2	0.0	0.0	0.0	0.0
82.5°	43.2	18.1	4.5	4.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.9	6.7	4.5	4.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	4.5	4.5	4.5	2.2	2.2	0.0	0.0	0.0	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)