

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: P572714

Luminaire Tested: **ARCH-S-PA2-100-830-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572714
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-PA2-100-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11013 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

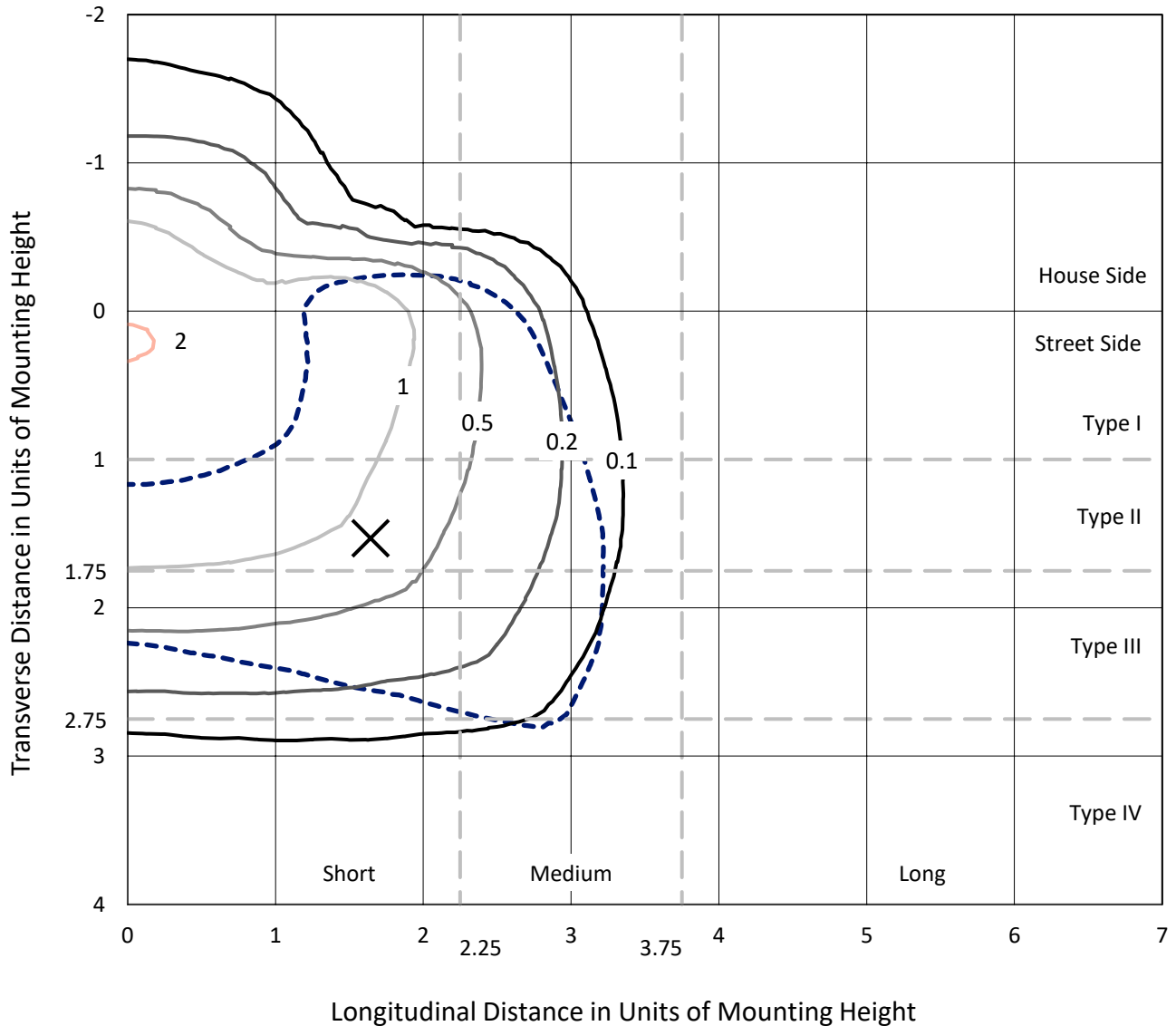
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

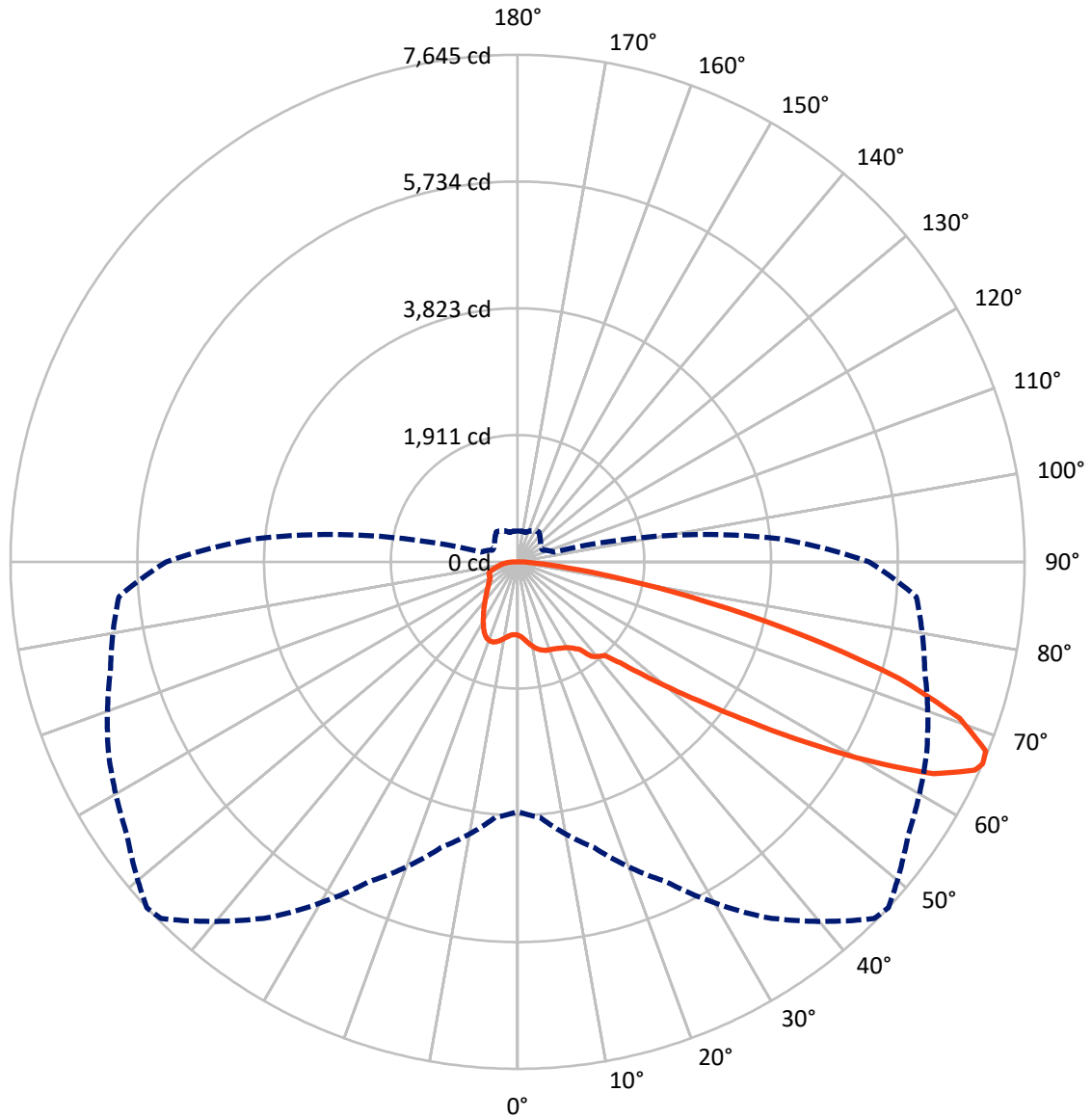
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

REPORT NUMBER: P572714
CATALOG NUMBER: ARCH-S-PA2-100-830-U-T4W

Luminous Intensity Polar Plot



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

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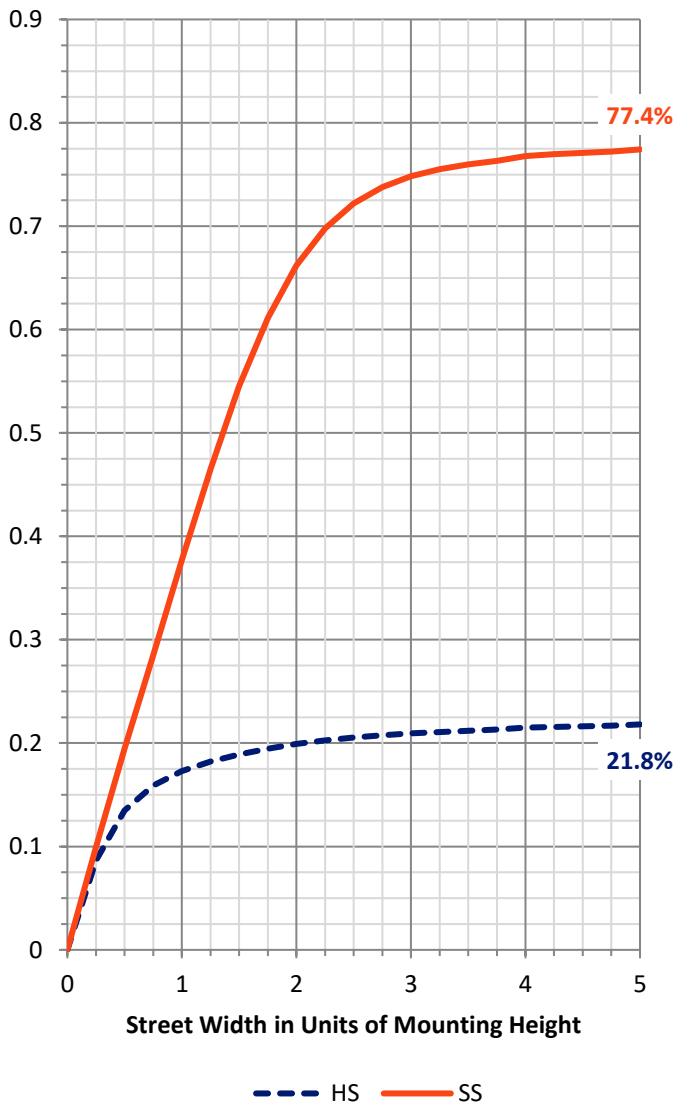
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2448.5	0.0	2448.5
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	8564.5	0.0	8564.5
	% Fixture	77.8	0.0	77.8
Total	Lumens	11013.0	0.0	11013.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	1.0
10°-20°	369.6	3.4
20°-30°	616.5	5.6
30°-40°	895.3	8.1
40°-50°	1369.2	12.4
50°-60°	2588.1	23.5
60°-70°	3344.1	30.4
70°-80°	1503.2	13.6
80°-90°	214.4	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°	11013.0	100.0
0°-180°	11013.0	100.0



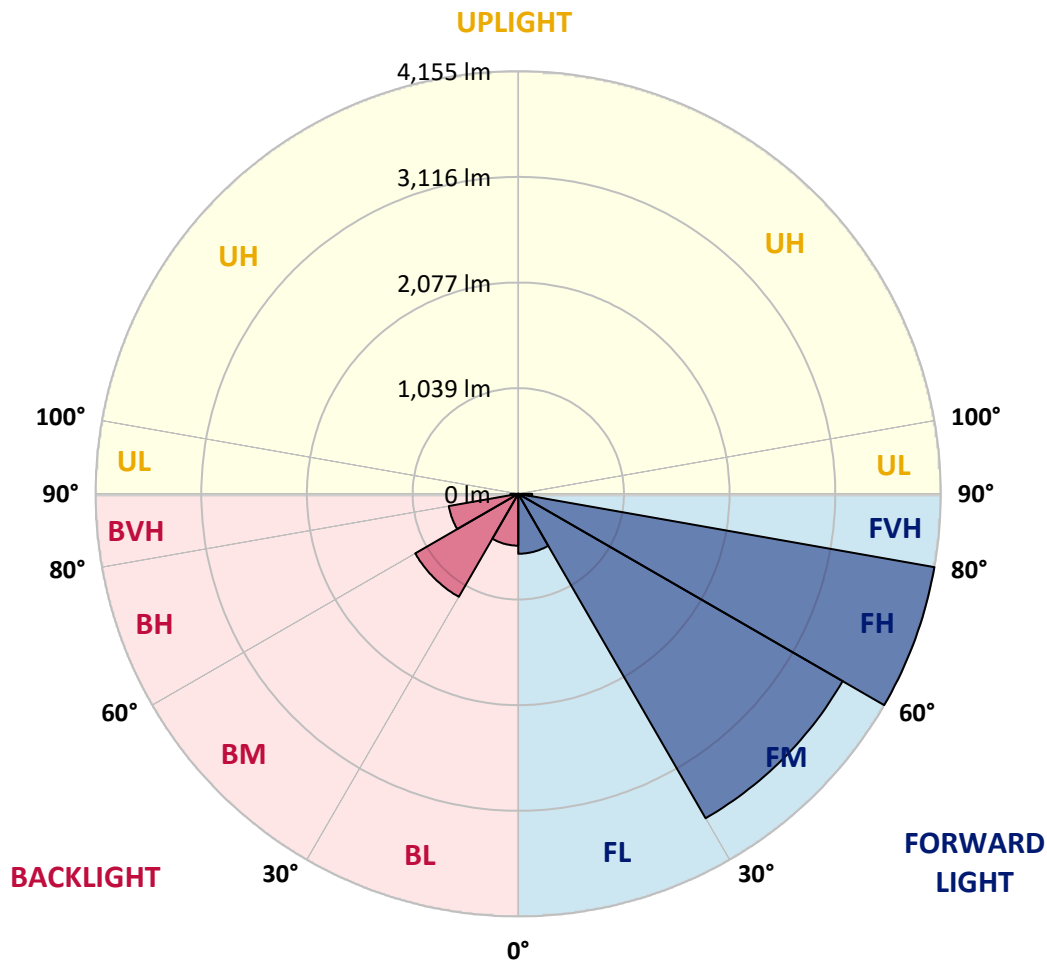
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 CATALOG NUMBER: ARCH-S-PA2-100-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	589.2	5.4			
FM (30°-60°)	3683.0	33.4			
FH (60°-80°)	4154.5	37.7			G2/5000
FVH (80°-90°)	137.8	1.3			G2/225
BL (0°-30°)	509.5	4.6	B2/1000		
BM (30°-60°)	1169.5	10.6	B2/2500		
BH (60°-80°)	692.8	6.3	B2/1000		G2/1000
BVH (80°-90°)	76.6	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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CATALOG NUMBER: ARCH-S-PA2-100-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1
2.5°	1170.0	1161.0	1155.0	1152.0	1146.0	1134.1	1134.1	1131.1	1119.1	1113.1	1110.1
5°	1262.7	1256.8	1241.8	1229.8	1211.9	1187.9	1184.9	1167.0	1143.0	1125.1	1113.1
7.5°	1352.5	1346.5	1331.6	1313.6	1283.7	1253.8	1244.8	1220.8	1181.9	1155.0	1134.1
10°	1430.3	1421.3	1403.4	1379.4	1346.5	1313.6	1304.6	1277.7	1238.8	1199.9	1164.0
12.5°	1481.2	1475.2	1454.2	1424.3	1388.4	1355.5	1349.5	1325.6	1286.7	1244.8	1199.9
15°	1505.1	1502.1	1478.2	1448.3	1412.4	1385.4	1382.4	1361.5	1328.6	1286.7	1235.8
17.5°	1499.1	1496.1	1475.2	1445.3	1418.3	1403.4	1403.4	1388.4	1361.5	1325.6	1271.7
20°	1469.2	1469.2	1451.3	1430.3	1415.3	1412.4	1412.4	1409.4	1391.4	1361.5	1307.6
22.5°	1439.3	1439.3	1427.3	1412.4	1409.4	1421.3	1424.3	1430.3	1424.3	1400.4	1352.5
25°	1445.3	1442.3	1427.3	1409.4	1412.4	1439.3	1445.3	1460.2	1457.2	1439.3	1397.4
27.5°	1511.1	1508.1	1469.2	1433.3	1430.3	1463.2	1469.2	1490.2	1490.2	1475.2	1448.3
30°	1675.7	1681.7	1609.8	1520.1	1475.2	1496.1	1502.1	1526.1	1538.0	1544.0	1523.1
32.5°	1927.0	1918.0	1810.3	1663.7	1565.0	1544.0	1553.0	1573.9	1615.8	1627.8	1576.9
35°	2181.4	2187.4	2082.6	1897.1	1708.6	1630.8	1624.8	1654.7	1717.6	1663.7	1573.9
37.5°	2417.8	2408.8	2286.1	2085.6	1897.1	1807.3	1810.3	1798.4	1744.5	1636.8	1594.9
40°	2675.1	2651.2	2549.4	2292.1	2052.7	1903.1	1876.2	1774.4	1729.5	1684.7	1678.7
42.5°	2929.4	2932.4	2848.6	2594.3	2238.2	1971.9	1930.0	1825.3	1855.2	1846.2	1840.2
45°	3249.6	3249.6	3165.8	2929.4	2531.5	2229.2	2172.4	2046.7	2094.6	2130.5	2202.3
47.5°	3542.9	3524.9	3501.0	3300.5	2914.5	2564.4	2540.4	2396.8	2522.5	2633.2	2779.8
50°	3854.0	3830.1	3815.1	3692.5	3417.2	3073.1	3001.3	2851.6	3126.9	3333.4	3605.7
52.5°	4338.8	4296.9	4219.1	4150.3	4042.6	3644.6	3554.8	3444.1	3800.2	4060.5	4617.1
55°	4775.7	4739.8	4665.0	4715.8	4700.9	4338.8	4261.0	4156.3	4542.3	4859.5	5496.8
57.5°	4937.3	4940.2	5042.0	5314.3	5457.9	5248.4	5137.7	5033.0	5359.2	5505.8	6080.3
60°	5012.1	5003.1	5266.4	5709.3	6176.1	6238.9	6098.3	5882.8	6005.5	6014.5	6574.0
62.5°	4850.5	4874.4	5236.5	5873.8	6606.9	7058.8	7037.8	6660.8	6547.1	6421.4	6705.7
65°	4237.1	4270.0	4802.6	5580.6	6675.8	7555.5	7576.4	7136.6	6819.4	6469.3	6331.7
66°	3770.3	3869.0	4461.5	5326.2	6550.1	7606.4	7645.3	7187.4	6807.4	6355.6	6035.4
67.5°	3162.8	3156.8	3818.1	4766.7	6200.0	7561.5	7612.3	7115.6	6645.8	6020.5	5442.9
70°	1936.0	1995.8	2564.4	3557.8	5131.8	7001.9	7070.7	6609.9	5948.6	5098.8	4024.6
72.5°	993.4	1092.2	1466.2	2313.0	3725.4	5787.1	6020.5	5550.7	4862.4	3689.5	2456.7
75°	526.6	520.7	691.2	1253.8	2378.9	4341.8	4464.5	4162.3	3360.3	2199.3	1250.8
77.5°	281.3	296.2	362.1	643.3	1307.6	2773.8	2929.4	2684.1	1915.1	1125.1	598.5
80°	191.5	200.5	245.4	362.1	709.2	1505.1	1648.7	1430.3	1002.4	532.6	281.3
82.5°	122.7	128.7	167.6	224.4	424.9	730.1	769.0	733.1	490.7	302.2	170.6
85°	74.8	77.8	101.7	143.6	266.3	296.2	308.2	311.2	275.3	197.5	92.8
87.5°	35.9	38.9	56.9	71.8	125.7	107.7	98.7	101.7	152.6	116.7	41.9
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°	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1	1107.1
2.5°	1107.1	1104.1	1098.2	1095.2	1098.2	1098.2	1098.2	1101.2	1107.1	1107.1	1110.1
5°	1107.1	1101.2	1095.2	1095.2	1101.2	1107.1	1113.1	1125.1	1131.1	1134.1	1134.1
7.5°	1122.1	1116.1	1110.1	1110.1	1119.1	1131.1	1143.0	1158.0	1173.0	1184.9	1184.9
10°	1152.0	1143.0	1137.1	1140.1	1155.0	1170.0	1184.9	1202.9	1217.9	1232.8	1232.8
12.5°	1184.9	1176.0	1167.0	1173.0	1193.9	1211.9	1226.8	1235.8	1250.8	1262.7	1262.7
15°	1217.9	1202.9	1199.9	1211.9	1232.8	1244.8	1250.8	1250.8	1256.8	1268.7	1268.7
17.5°	1253.8	1238.8	1235.8	1247.8	1265.7	1265.7	1253.8	1244.8	1241.8	1250.8	1253.8
20°	1289.7	1274.7	1274.7	1283.7	1280.7	1259.7	1238.8	1223.8	1211.9	1220.8	1223.8
22.5°	1334.6	1319.6	1313.6	1301.6	1274.7	1232.8	1199.9	1181.9	1173.0	1179.0	1184.9
25°	1379.4	1367.5	1352.5	1310.6	1247.8	1181.9	1140.1	1125.1	1128.1	1140.1	1146.0
27.5°	1436.3	1430.3	1394.4	1304.6	1199.9	1110.1	1068.2	1065.2	1077.2	1095.2	1104.1
30°	1505.1	1496.1	1433.3	1286.7	1134.1	1026.4	996.4	1002.4	1020.4	1035.3	1044.3
32.5°	1553.0	1547.0	1451.3	1244.8	1053.3	951.5	927.6	927.6	936.6	957.5	966.5
35°	1568.0	1591.9	1463.2	1181.9	957.5	885.7	861.8	846.8	846.8	864.8	870.8
37.5°	1618.8	1672.7	1469.2	1098.2	879.7	825.9	795.9	769.0	760.0	757.0	757.0
40°	1735.5	1798.4	1466.2	990.4	804.9	766.0	730.1	700.2	676.3	643.3	646.3
42.5°	1939.0	1986.9	1457.2	876.7	739.1	712.2	676.3	640.3	601.4	565.5	562.5
45°	2331.0	2259.2	1433.3	778.0	679.2	664.3	631.4	589.5	541.6	508.7	508.7
47.5°	2950.4	2752.9	1418.3	685.2	625.4	622.4	592.5	547.6	499.7	475.8	472.8
50°	3800.2	3435.1	1442.3	619.4	577.5	586.5	562.5	520.7	481.8	460.8	457.8
52.5°	4775.7	4168.2	1469.2	577.5	541.6	559.6	547.6	508.7	469.8	451.8	448.8
55°	5529.7	4763.7	1430.3	538.6	505.7	532.6	532.6	496.7	463.8	445.8	445.8
57.5°	6059.4	5003.1	1295.7	502.7	475.8	508.7	517.7	490.7	460.8	454.8	454.8
60°	6286.8	4991.1	1059.3	469.8	454.8	484.7	508.7	484.7	466.8	481.8	484.7
62.5°	6164.1	4730.8	822.9	445.8	439.9	478.8	517.7	508.7	487.7	499.7	505.7
65°	5610.5	4273.0	619.4	424.9	421.9	481.8	541.6	523.6	472.8	475.8	478.8
66°	5299.3	3964.8	568.5	418.9	415.9	484.7	553.6	517.7	460.8	466.8	463.8
67.5°	4635.0	3480.0	499.7	406.9	404.0	484.7	568.5	505.7	445.8	454.8	445.8
70°	3399.2	2462.6	427.9	392.0	386.0	475.8	565.5	481.8	412.9	406.9	392.0
72.5°	1971.9	1490.2	380.0	374.0	359.1	418.9	529.6	442.9	377.0	359.1	344.1
75°	969.5	757.0	338.1	353.1	314.2	368.0	478.8	409.9	347.1	323.2	314.2
77.5°	445.8	383.0	305.2	323.2	278.3	317.2	436.9	374.0	308.2	272.3	263.3
80°	242.4	239.4	257.3	269.3	233.4	278.3	386.0	326.2	260.3	221.4	209.5
82.5°	149.6	152.6	188.5	206.5	182.5	242.4	341.1	272.3	197.5	155.6	158.6
85°	77.8	86.8	125.7	137.6	119.7	179.5	257.3	182.5	110.7	80.8	80.8
87.5°	26.9	35.9	62.8	74.8	65.8	107.7	161.6	86.8	23.9	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)