

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: P572786

Luminaire Tested: **ARCH-S-PA2-110-827-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572786
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-PA2-110-827-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11016 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

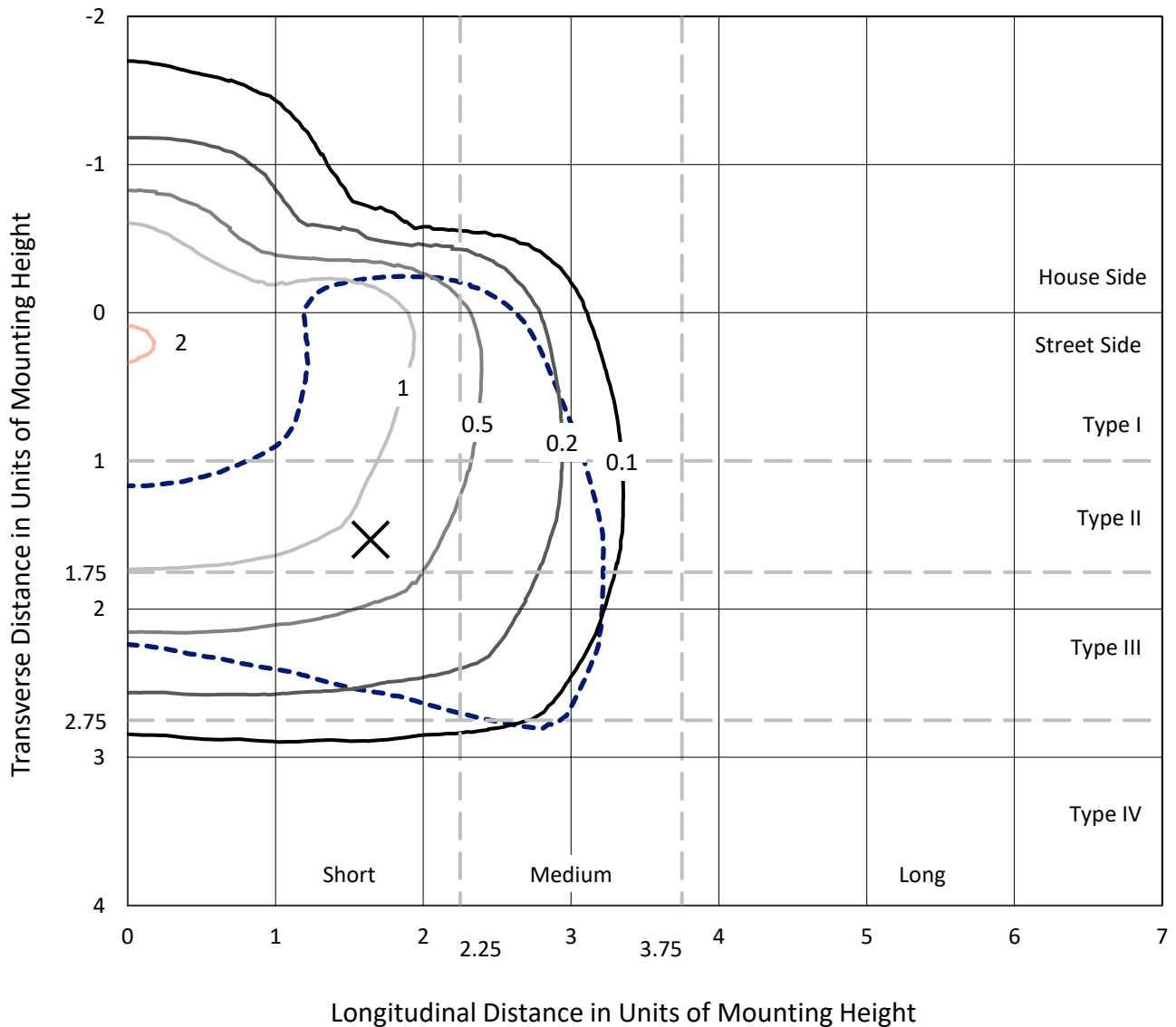
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

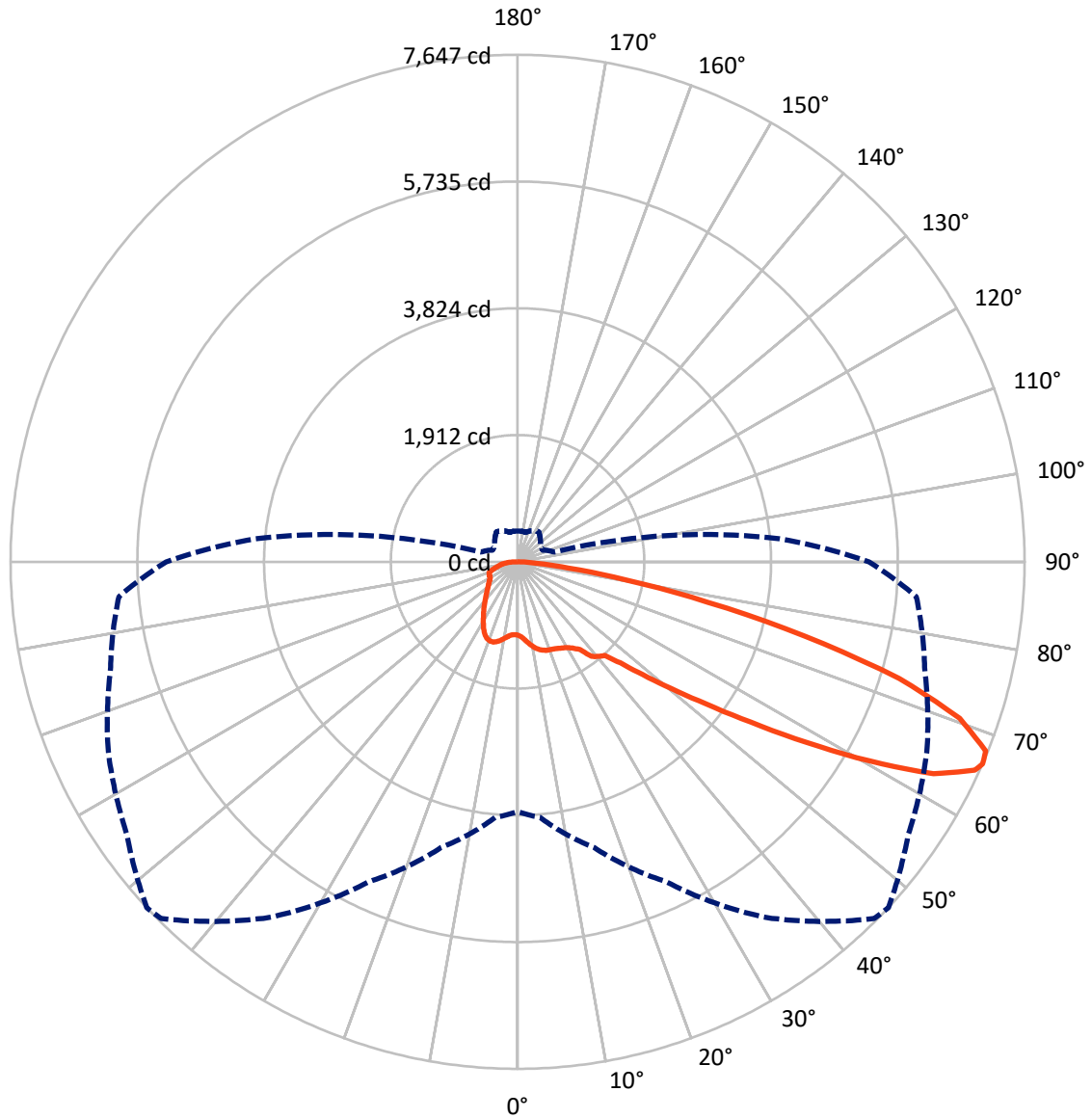
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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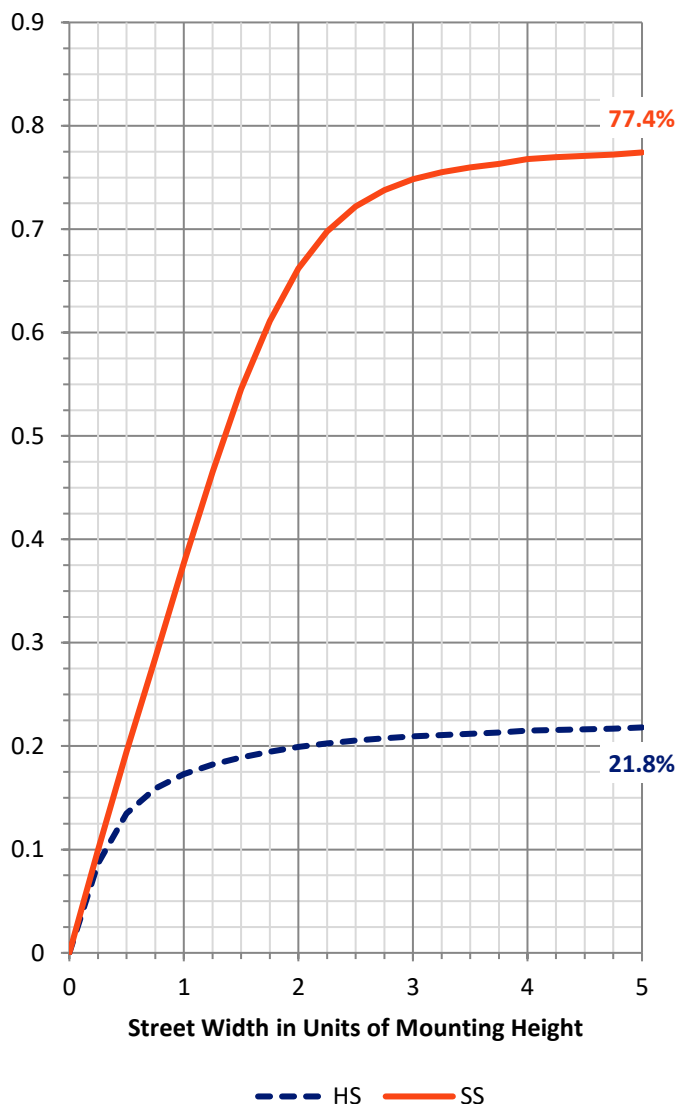
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2449.2	0.0	2449.2
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	8566.8	0.0	8566.8
	% Fixture	77.8	0.0	77.8
Total	Lumens	11016.0	0.0	11016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	1.0
10°-20°	369.7	3.4
20°-30°	616.6	5.6
30°-40°	895.5	8.1
40°-50°	1369.5	12.4
50°-60°	2588.8	23.5
60°-70°	3345.1	30.4
70°-80°	1503.6	13.6
80°-90°	214.5	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°	11016.0	100.0
0°-180°	11016.0	100.0

Coefficient of Utilization

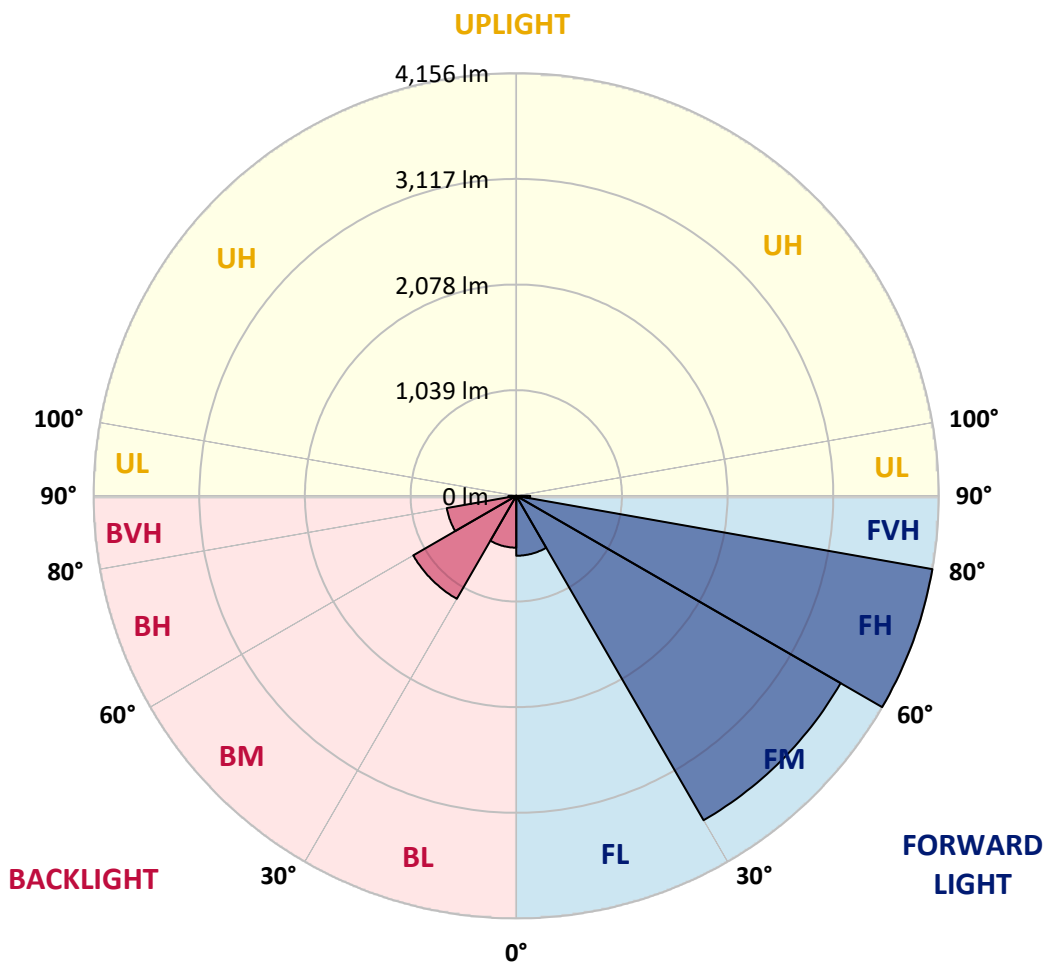


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	589.4	5.4			
FM (30°-60°)	3684.0	33.4			
FH (60°-80°)	4155.7	37.7			G2/5000
FVH (80°-90°)	137.8	1.3			G2/225
BL (0°-30°)	509.7	4.6	B2/1000		
BM (30°-60°)	1169.8	10.6	B2/2500		
BH (60°-80°)	693.0	6.3	B2/1000		G2/1000
BVH (80°-90°)	76.7	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°	1107.4	1107.4	1107.4	1107.4	1107.4	1107.4	1107.4	1107.4	1107.4	1107.4	1107.4
2.5°	1170.3	1161.3	1155.3	1152.3	1146.4	1134.4	1134.4	1131.4	1119.4	1113.4	1110.4
5°	1263.1	1257.1	1242.1	1230.2	1212.2	1188.3	1185.3	1167.3	1143.4	1125.4	1113.4
7.5°	1352.9	1346.9	1331.9	1314.0	1284.0	1254.1	1245.1	1221.2	1182.3	1155.3	1134.4
10°	1430.7	1421.7	1403.8	1379.8	1346.9	1314.0	1305.0	1278.0	1239.1	1200.2	1164.3
12.5°	1481.6	1475.6	1454.6	1424.7	1388.8	1355.9	1349.9	1325.9	1287.0	1245.1	1200.2
15°	1505.5	1502.5	1478.6	1448.7	1412.7	1385.8	1382.8	1361.9	1328.9	1287.0	1236.1
17.5°	1499.5	1496.5	1475.6	1445.7	1418.7	1403.8	1403.8	1388.8	1361.9	1325.9	1272.1
20°	1469.6	1469.6	1451.6	1430.7	1415.7	1412.7	1412.7	1409.7	1391.8	1361.9	1308.0
22.5°	1439.7	1439.7	1427.7	1412.7	1409.7	1421.7	1424.7	1430.7	1424.7	1400.8	1352.9
25°	1445.7	1442.7	1427.7	1409.7	1412.7	1439.7	1445.7	1460.6	1457.6	1439.7	1397.8
27.5°	1511.5	1508.5	1469.6	1433.7	1430.7	1463.6	1469.6	1490.6	1490.6	1475.6	1448.7
30°	1676.1	1682.1	1610.3	1520.5	1475.6	1496.5	1502.5	1526.5	1538.4	1544.4	1523.5
32.5°	1927.5	1918.6	1810.8	1664.2	1565.4	1544.4	1553.4	1574.4	1616.3	1628.2	1577.4
35°	2182.0	2187.9	2083.2	1897.6	1709.1	1631.2	1625.2	1655.2	1718.0	1664.2	1574.4
37.5°	2418.4	2409.4	2286.7	2086.2	1897.6	1807.8	1810.8	1798.8	1745.0	1637.2	1595.3
40°	2675.8	2651.9	2550.1	2292.7	2053.3	1903.6	1876.7	1774.9	1730.0	1685.1	1679.1
42.5°	2930.2	2933.2	2849.4	2595.0	2238.8	1972.4	1930.5	1825.8	1855.7	1846.7	1840.7
45°	3250.5	3250.5	3166.7	2930.2	2532.2	2229.9	2173.0	2047.3	2095.2	2131.1	2202.9
47.5°	3543.8	3525.9	3501.9	3301.4	2915.3	2565.1	2541.1	2397.5	2523.2	2633.9	2780.6
50°	3855.1	3831.2	3816.2	3693.5	3418.1	3073.9	3002.1	2852.4	3127.8	3334.3	3606.7
52.5°	4340.0	4298.1	4220.3	4151.4	4043.7	3645.6	3555.8	3445.0	3801.2	4061.6	4618.3
55°	4777.0	4741.1	4666.2	4717.1	4702.1	4340.0	4262.2	4157.4	4543.5	4860.8	5498.3
57.5°	4938.6	4941.6	5043.4	5315.7	5459.4	5249.9	5139.1	5034.4	5360.6	5507.3	6082.0
60°	5013.4	5004.4	5267.8	5710.8	6177.7	6240.6	6099.9	5884.4	6007.1	6016.1	6575.8
62.5°	4851.8	4875.7	5237.9	5875.4	6608.7	7060.7	7039.7	6662.6	6548.9	6423.2	6707.5
65°	4238.2	4271.1	4803.9	5582.1	6677.6	7557.6	7578.5	7138.5	6821.3	6471.1	6333.4
66°	3771.3	3870.1	4462.7	5327.7	6551.9	7608.4	7647.3	7189.4	6809.3	6357.3	6037.1
67.5°	3163.7	3157.7	3819.2	4768.0	6201.7	7563.5	7614.4	7117.6	6647.7	6022.1	5444.4
70°	1936.5	1996.4	2565.1	3558.8	5133.1	7003.8	7072.7	6611.7	5950.3	5100.2	4025.7
72.5°	993.7	1092.5	1466.6	2313.7	3726.4	5788.6	6022.1	5552.2	4863.8	3690.5	2457.3
75°	526.8	520.8	691.4	1254.1	2379.5	4343.0	4465.7	4163.4	3361.2	2199.9	1251.1
77.5°	281.4	296.3	362.2	643.5	1308.0	2774.6	2930.2	2684.8	1915.6	1125.4	598.6
80°	191.6	200.5	245.4	362.2	709.4	1505.5	1649.2	1430.7	1002.7	532.8	281.4
82.5°	122.7	128.7	167.6	224.5	425.0	730.3	769.2	733.3	490.9	302.3	170.6
85°	74.8	77.8	101.8	143.7	266.4	296.3	308.3	311.3	275.4	197.5	92.8
87.5°	35.9	38.9	56.9	71.8	125.7	107.8	98.8	101.8	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°	1107.4	1107.4	1107.4	1107.4	1107.4	1107.4	1107.4	1107.4	1107.4	1107.4	1107.4
2.5°	1107.4	1104.4	1098.5	1095.5	1098.5	1098.5	1098.5	1101.5	1107.4	1107.4	1110.4
5°	1107.4	1101.5	1095.5	1095.5	1101.5	1107.4	1113.4	1125.4	1131.4	1134.4	1134.4
7.5°	1122.4	1116.4	1110.4	1110.4	1119.4	1131.4	1143.4	1158.3	1173.3	1185.3	1185.3
10°	1152.3	1143.4	1137.4	1140.4	1155.3	1170.3	1185.3	1203.2	1218.2	1233.2	1233.2
12.5°	1185.3	1176.3	1167.3	1173.3	1194.2	1212.2	1227.2	1236.1	1251.1	1263.1	1263.1
15°	1218.2	1203.2	1200.2	1212.2	1233.2	1245.1	1251.1	1251.1	1257.1	1269.1	1269.1
17.5°	1254.1	1239.1	1236.1	1248.1	1266.1	1266.1	1254.1	1245.1	1242.1	1251.1	1254.1
20°	1290.0	1275.1	1275.1	1284.0	1281.0	1260.1	1239.1	1224.2	1212.2	1221.2	1224.2
22.5°	1334.9	1320.0	1314.0	1302.0	1275.1	1233.2	1200.2	1182.3	1173.3	1179.3	1185.3
25°	1379.8	1367.8	1352.9	1311.0	1248.1	1182.3	1140.4	1125.4	1128.4	1140.4	1146.4
27.5°	1436.7	1430.7	1394.8	1305.0	1200.2	1110.4	1068.5	1065.5	1077.5	1095.5	1104.4
30°	1505.5	1496.5	1433.7	1287.0	1134.4	1026.6	996.7	1002.7	1020.6	1035.6	1044.6
32.5°	1553.4	1547.4	1451.6	1245.1	1053.6	951.8	927.9	927.9	936.8	957.8	966.8
35°	1568.4	1592.3	1463.6	1182.3	957.8	886.0	862.0	847.0	847.0	865.0	871.0
37.5°	1619.3	1673.1	1469.6	1098.5	880.0	826.1	796.2	769.2	760.2	757.3	757.3
40°	1736.0	1798.8	1466.6	990.7	805.1	766.2	730.3	700.4	676.4	643.5	646.5
42.5°	1939.5	1987.4	1457.6	877.0	739.3	712.4	676.4	640.5	601.6	565.7	562.7
45°	2331.6	2259.8	1433.7	778.2	679.4	664.5	631.5	589.6	541.7	508.8	508.8
47.5°	2951.2	2753.6	1418.7	685.4	625.6	622.6	592.6	547.7	499.8	475.9	472.9
50°	3801.2	3436.1	1442.7	619.6	577.7	586.6	562.7	520.8	481.9	460.9	457.9
52.5°	4777.0	4169.4	1469.6	577.7	541.7	559.7	547.7	508.8	469.9	452.0	449.0
55°	5531.2	4765.0	1430.7	538.8	505.8	532.8	532.8	496.9	463.9	446.0	446.0
57.5°	6061.0	5004.4	1296.0	502.8	475.9	508.8	517.8	490.9	460.9	454.9	454.9
60°	6288.5	4992.5	1059.6	469.9	454.9	484.9	508.8	484.9	466.9	481.9	484.9
62.5°	6165.8	4732.1	823.1	446.0	440.0	478.9	517.8	508.8	487.9	499.8	505.8
65°	5612.0	4274.1	619.6	425.0	422.0	481.9	541.7	523.8	472.9	475.9	478.9
66°	5300.8	3965.8	568.7	419.0	416.0	484.9	553.7	517.8	460.9	466.9	463.9
67.5°	4636.3	3481.0	499.8	407.1	404.1	484.9	568.7	505.8	446.0	454.9	446.0
70°	3400.1	2463.3	428.0	392.1	386.1	475.9	565.7	481.9	413.0	407.1	392.1
72.5°	1972.4	1490.6	380.1	374.1	359.2	419.0	529.8	443.0	377.1	359.2	344.2
75°	969.8	757.3	338.2	353.2	314.3	368.1	478.9	410.1	347.2	323.3	314.3
77.5°	446.0	383.1	305.3	323.3	278.4	317.3	437.0	374.1	308.3	272.4	263.4
80°	242.4	239.4	257.4	269.4	233.5	278.4	386.1	326.2	260.4	221.5	209.5
82.5°	149.7	152.6	188.6	206.5	182.6	242.4	341.2	272.4	197.5	155.6	158.6
85°	77.8	86.8	125.7	137.7	119.7	179.6	257.4	182.6	110.7	80.8	80.8
87.5°	26.9	35.9	62.9	74.8	65.8	107.8	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)