

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: P572651

Luminaire Tested: **ARCH-S-PA2-100-727-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572651
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-PA2-100-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 11590 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

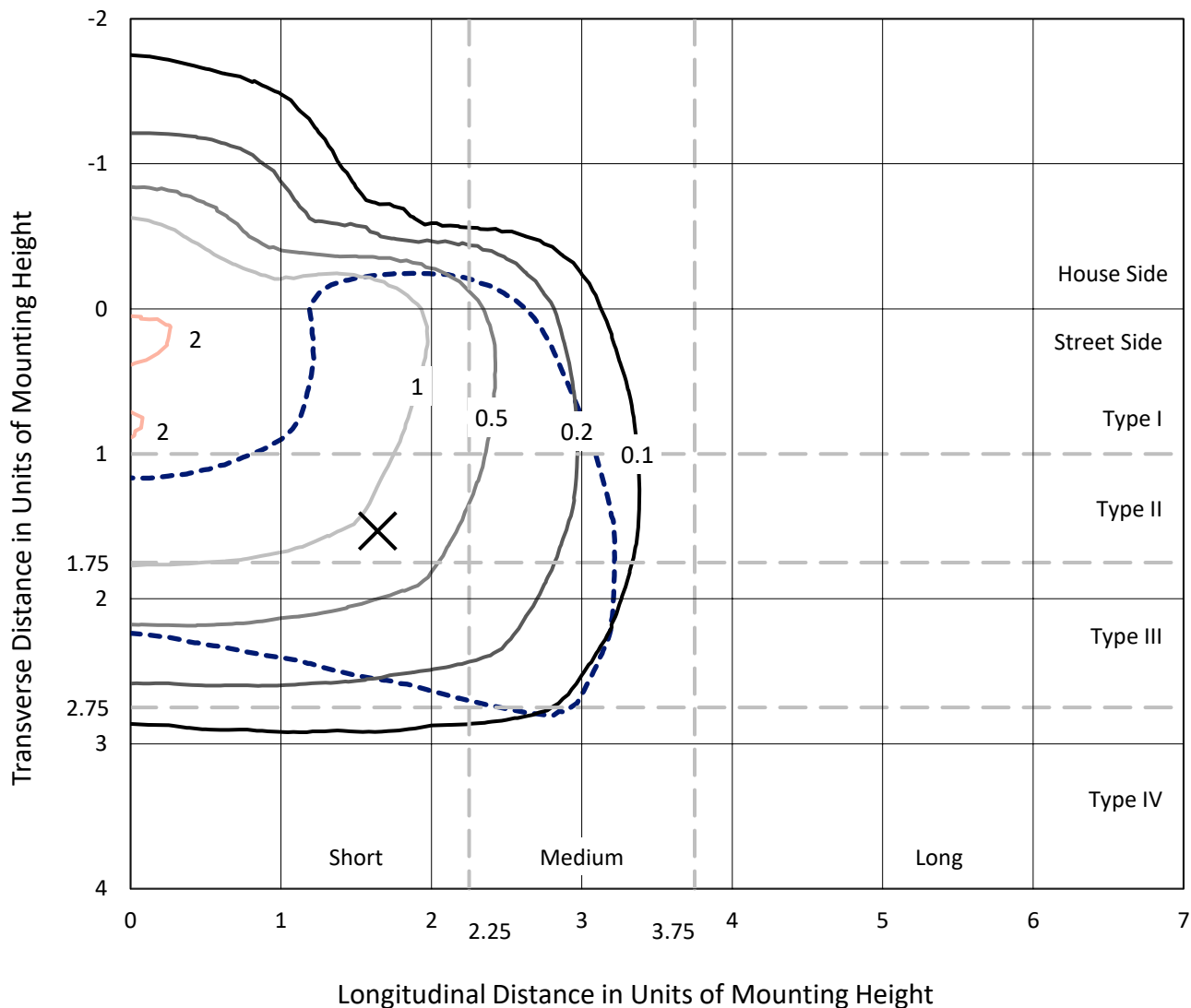
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

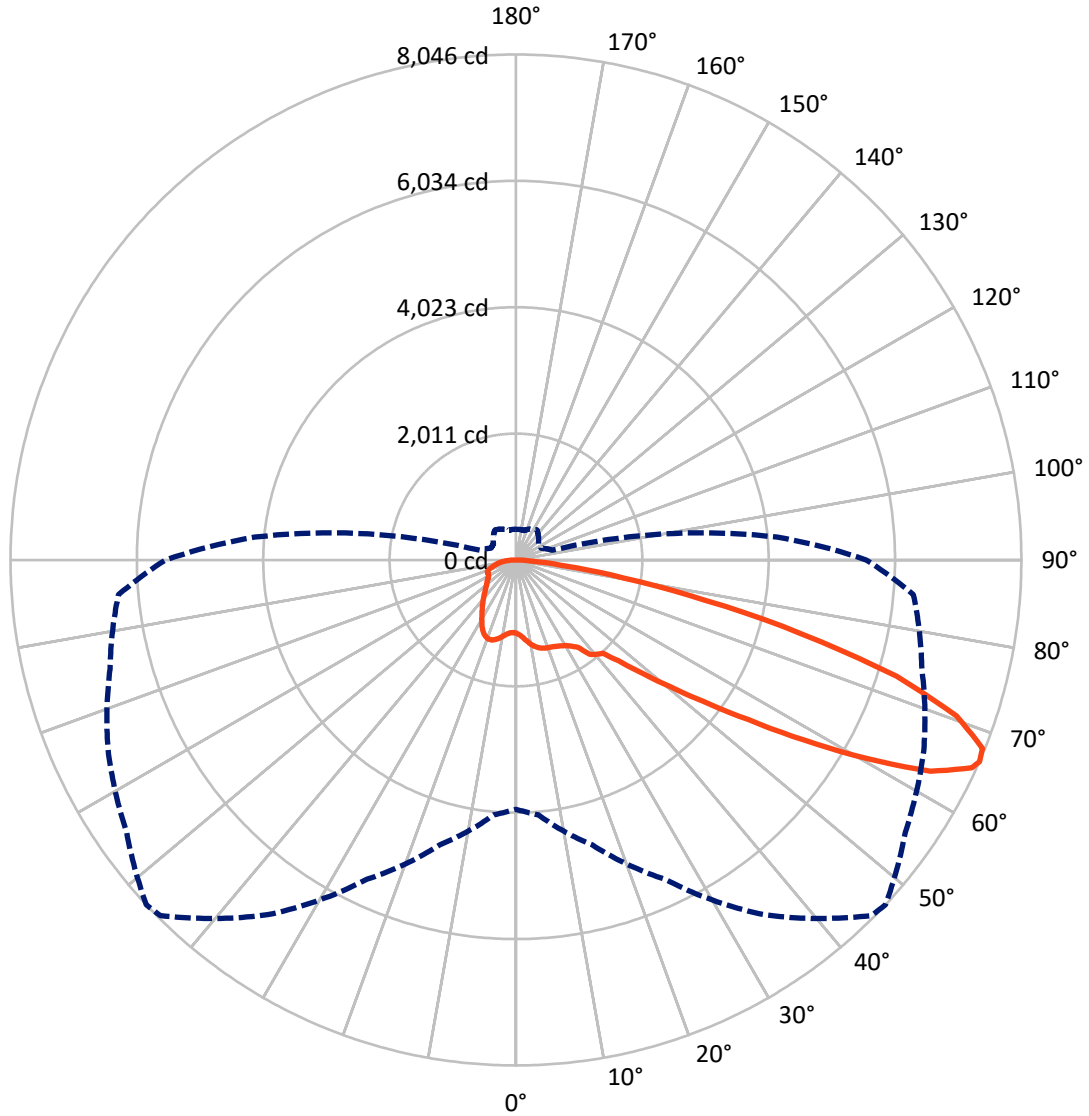
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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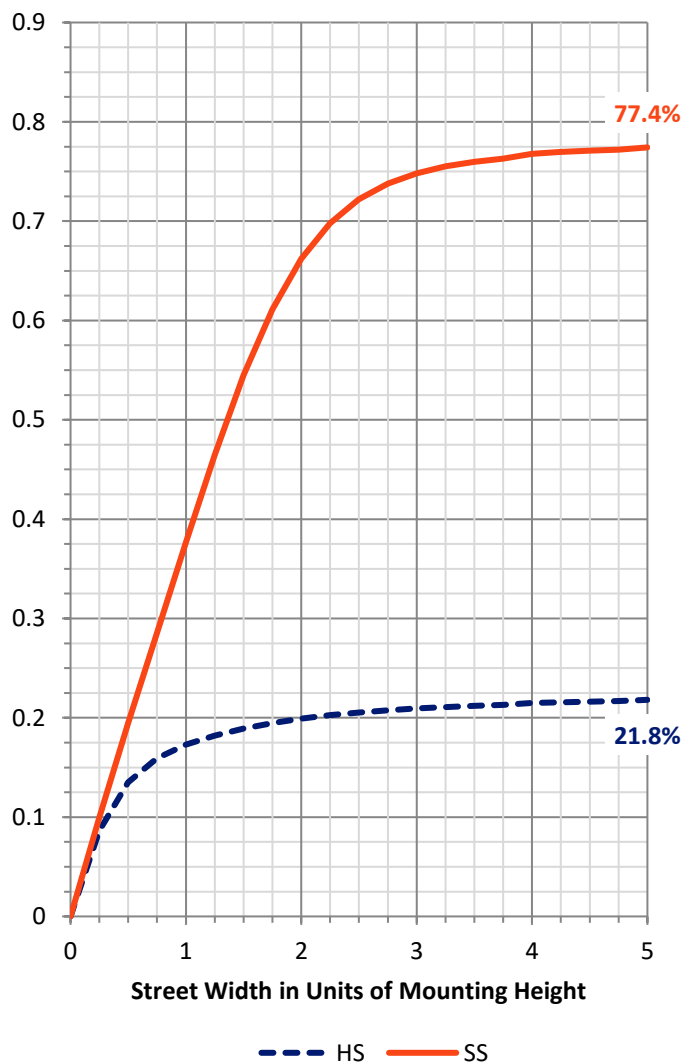
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2576.8	0.0	2576.8
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	9013.2	0.0	9013.2
	% Fixture	77.8	0.0	77.8
Total	Lumens	11590.0	0.0	11590.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.0
10°-20°	389.0	3.4
20°-30°	648.8	5.6
30°-40°	942.2	8.1
40°-50°	1440.9	12.4
50°-60°	2723.7	23.5
60°-70°	3519.4	30.4
70°-80°	1581.9	13.6
80°-90°	225.6	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°	11590.0	100.0
0°-180°	11590.0	100.0

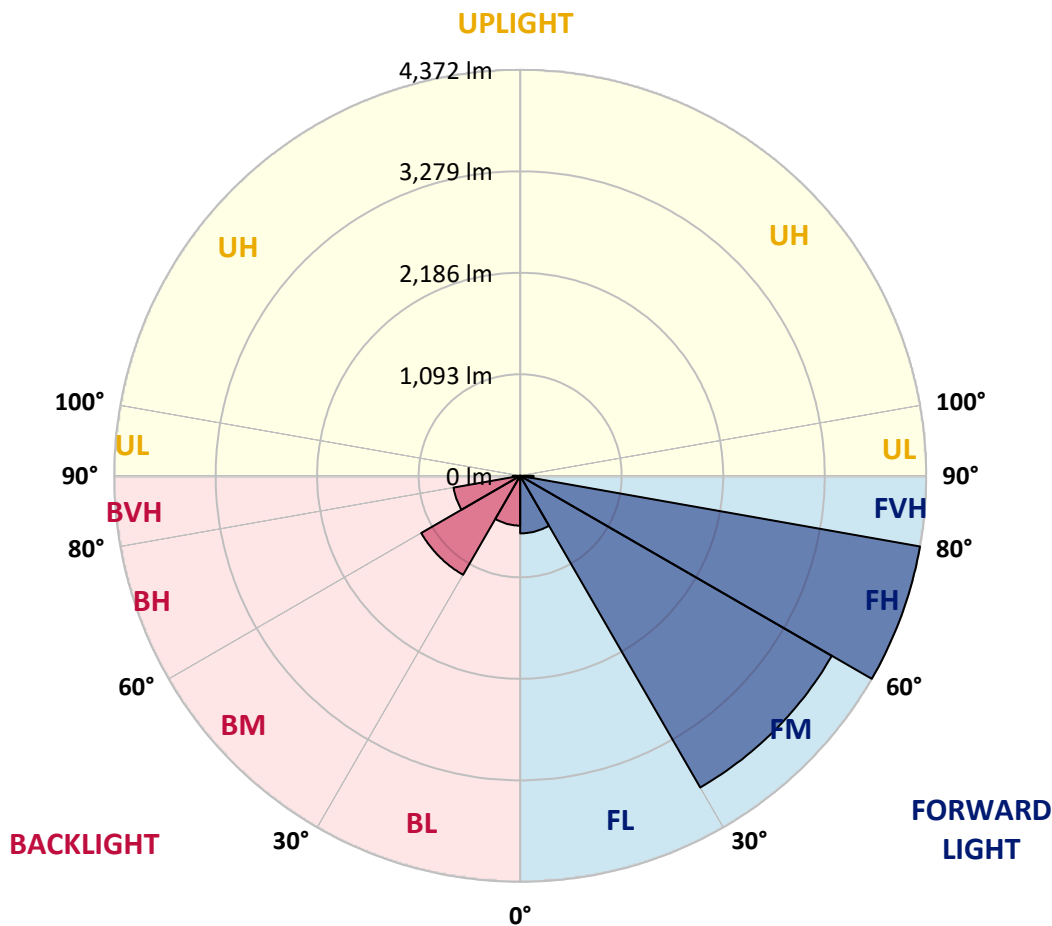


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.1	5.4			
FM (30°-60°)	3875.9	33.4			
FH (60°-80°)	4372.2	37.7			G2/5000
FVH (80°-90°)	145.0	1.3			G2/225
BL (0°-30°)	536.2	4.6	B2/1000		
BM (30°-60°)	1230.8	10.6	B2/2500		
BH (60°-80°)	729.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	80.7	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°	1165.1	1165.1	1165.1	1165.1	1165.1	1165.1	1165.1	1165.1	1165.1	1165.1	1165.1
2.5°	1231.3	1221.8	1215.5	1212.4	1206.1	1193.5	1193.5	1190.3	1177.7	1171.4	1168.3
5°	1328.9	1322.6	1306.9	1294.3	1275.4	1250.2	1247.0	1228.1	1202.9	1184.0	1171.4
7.5°	1423.4	1417.1	1401.3	1382.4	1350.9	1319.5	1310.0	1284.8	1243.9	1215.5	1193.5
10°	1505.2	1495.8	1476.9	1451.7	1417.1	1382.4	1373.0	1344.6	1303.7	1262.8	1225.0
12.5°	1558.8	1552.5	1530.4	1498.9	1461.2	1426.5	1420.2	1395.0	1354.1	1310.0	1262.8
15°	1584.0	1580.8	1555.6	1524.1	1486.4	1458.0	1454.9	1432.8	1398.2	1354.1	1300.6
17.5°	1577.7	1574.5	1552.5	1521.0	1492.6	1476.9	1476.9	1461.2	1432.8	1395.0	1338.3
20°	1546.2	1546.2	1527.3	1505.2	1489.5	1486.4	1486.4	1483.2	1464.3	1432.8	1376.1
22.5°	1514.7	1514.7	1502.1	1486.4	1483.2	1495.8	1498.9	1505.2	1498.9	1473.8	1423.4
25°	1521.0	1517.8	1502.1	1483.2	1486.4	1514.7	1521.0	1536.7	1533.6	1514.7	1470.6
27.5°	1590.3	1587.1	1546.2	1508.4	1505.2	1539.9	1546.2	1568.2	1568.2	1552.5	1524.1
30°	1763.5	1769.8	1694.2	1599.7	1552.5	1574.5	1580.8	1606.0	1618.6	1624.9	1602.9
32.5°	2028.0	2018.5	1905.2	1750.9	1647.0	1624.9	1634.4	1656.4	1700.5	1713.1	1659.5
35°	2295.7	2302.0	2191.7	1996.5	1798.1	1716.2	1709.9	1741.4	1807.6	1750.9	1656.4
37.5°	2544.4	2535.0	2405.9	2194.9	1996.5	1902.0	1905.2	1892.6	1835.9	1722.5	1678.4
40°	2815.2	2790.1	2683.0	2412.2	2160.2	2002.8	1974.5	1867.4	1820.1	1772.9	1766.6
42.5°	3082.9	3086.1	2997.9	2730.2	2355.5	2075.2	2031.1	1920.9	1952.4	1943.0	1936.7
45°	3419.9	3419.9	3331.7	3082.9	2664.1	2346.0	2286.2	2153.9	2204.3	2242.1	2317.7
47.5°	3728.5	3709.6	3684.4	3473.4	3067.2	2698.7	2673.5	2522.4	2654.6	2771.2	2925.5
50°	4056.0	4030.8	4015.0	3885.9	3596.2	3234.1	3158.5	3001.0	3290.8	3508.0	3794.6
52.5°	4566.1	4522.0	4440.2	4367.7	4254.4	3835.5	3741.1	3624.6	3999.3	4273.3	4859.0
55°	5025.9	4988.1	4909.4	4962.9	4947.2	4566.1	4484.2	4374.0	4780.3	5114.1	5784.8
57.5°	5195.9	5199.1	5306.1	5592.7	5743.9	5523.4	5406.9	5296.7	5639.9	5794.2	6398.9
60°	5274.7	5265.2	5542.3	6008.4	6499.6	6565.8	6417.8	6191.0	6320.1	6329.6	6918.5
62.5°	5104.6	5129.8	5510.8	6181.6	6953.1	7428.6	7406.6	7009.8	6890.1	6757.9	7057.0
65°	4459.1	4493.7	5054.2	5873.0	7025.5	7951.3	7973.4	7510.5	7176.7	6808.2	6663.4
66°	3967.8	4071.7	4695.2	5605.3	6893.3	8004.9	8045.8	7564.0	7164.1	6688.6	6351.6
67.5°	3328.5	3322.2	4018.2	5016.4	6524.8	7957.6	8011.2	7488.4	6994.0	6335.9	5728.1
70°	2037.4	2100.4	2698.7	3744.2	5400.6	7368.8	7441.2	6956.2	6260.3	5366.0	4235.5
72.5°	1045.5	1149.4	1543.0	2434.2	3920.6	6090.3	6335.9	5841.5	5117.2	3882.8	2585.4
75°	554.2	547.9	727.4	1319.5	2503.5	4569.3	4698.4	4380.3	3536.4	2314.5	1316.3
77.5°	296.0	311.8	381.0	677.0	1376.1	2919.2	3082.9	2824.7	2015.4	1184.0	629.8
80°	201.5	211.0	258.2	381.0	746.3	1584.0	1735.1	1505.2	1054.9	560.5	296.0
82.5°	129.1	135.4	176.3	236.2	447.2	768.4	809.3	771.5	516.4	318.1	179.5
85°	78.7	81.9	107.1	151.2	280.3	311.8	324.4	327.5	289.7	207.8	97.6
87.5°	37.8	40.9	59.8	75.6	132.3	113.4	103.9	107.1	160.6	122.8	44.1
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°	1165.1	1165.1	1165.1	1165.1	1165.1	1165.1	1165.1	1165.1	1165.1	1165.1	1165.1
2.5°	1165.1	1162.0	1155.7	1152.6	1155.7	1155.7	1155.7	1158.8	1165.1	1165.1	1168.3
5°	1165.1	1158.8	1152.6	1152.6	1158.8	1165.1	1171.4	1184.0	1190.3	1193.5	1193.5
7.5°	1180.9	1174.6	1168.3	1168.3	1177.7	1190.3	1202.9	1218.7	1234.4	1247.0	1247.0
10°	1212.4	1202.9	1196.6	1199.8	1215.5	1231.3	1247.0	1265.9	1281.7	1297.4	1297.4
12.5°	1247.0	1237.6	1228.1	1234.4	1256.5	1275.4	1291.1	1300.6	1316.3	1328.9	1328.9
15°	1281.7	1265.9	1262.8	1275.4	1297.4	1310.0	1316.3	1316.3	1322.6	1335.2	1335.2
17.5°	1319.5	1303.7	1300.6	1313.2	1332.0	1332.0	1319.5	1310.0	1306.9	1316.3	1319.5
20°	1357.2	1341.5	1341.5	1350.9	1347.8	1325.7	1303.7	1288.0	1275.4	1284.8	1288.0
22.5°	1404.5	1388.7	1382.4	1369.8	1341.5	1297.4	1262.8	1243.9	1234.4	1240.7	1247.0
25°	1451.7	1439.1	1423.4	1379.3	1313.2	1243.9	1199.8	1184.0	1187.2	1199.8	1206.1
27.5°	1511.5	1505.2	1467.5	1373.0	1262.8	1168.3	1124.2	1121.1	1133.7	1152.6	1162.0
30°	1584.0	1574.5	1508.4	1354.1	1193.5	1080.1	1048.6	1054.9	1073.8	1089.6	1099.0
32.5°	1634.4	1628.1	1527.3	1310.0	1108.5	1001.4	976.2	976.2	985.7	1007.7	1017.1
35°	1650.1	1675.3	1539.9	1243.9	1007.7	932.1	906.9	891.2	891.2	910.1	916.4
37.5°	1703.6	1760.3	1546.2	1155.7	925.8	869.1	837.6	809.3	799.9	796.7	796.7
40°	1826.4	1892.6	1543.0	1042.3	847.1	806.2	768.4	736.9	711.7	677.0	680.2
42.5°	2040.6	2091.0	1533.6	922.7	777.8	749.5	711.7	673.9	633.0	595.2	592.0
45°	2453.1	2377.5	1508.4	818.8	714.8	699.1	664.4	620.4	570.0	535.3	535.3
47.5°	3105.0	2897.1	1492.6	721.1	658.2	655.0	623.5	576.3	525.9	500.7	497.5
50°	3999.3	3615.1	1517.8	651.9	607.8	617.2	592.0	547.9	507.0	485.0	481.8
52.5°	5025.9	4386.6	1546.2	607.8	570.0	588.9	576.3	535.3	494.4	475.5	472.4
55°	5819.4	5013.3	1505.2	566.8	532.2	560.5	560.5	522.7	488.1	469.2	469.2
57.5°	6376.8	5265.2	1363.5	529.0	500.7	535.3	544.8	516.4	485.0	478.7	478.7
60°	6616.1	5252.6	1114.8	494.4	478.7	510.1	535.3	510.1	491.3	507.0	510.1
62.5°	6487.0	4978.6	866.0	469.2	462.9	503.8	544.8	535.3	513.3	525.9	532.2
65°	5904.5	4496.8	651.9	447.2	444.0	507.0	570.0	551.1	497.5	500.7	503.8
66°	5577.0	4172.5	598.3	440.9	437.7	510.1	582.6	544.8	485.0	491.3	488.1
67.5°	4877.9	3662.3	525.9	428.3	425.1	510.1	598.3	532.2	469.2	478.7	469.2
70°	3577.3	2591.7	450.3	412.5	406.2	500.7	595.2	507.0	434.6	428.3	412.5
72.5°	2075.2	1568.2	399.9	393.6	377.9	440.9	557.4	466.1	396.8	377.9	362.1
75°	1020.3	796.7	355.8	371.6	330.6	387.3	503.8	431.4	365.3	340.1	330.6
77.5°	469.2	403.1	321.2	340.1	292.9	333.8	459.8	393.6	324.4	286.6	277.1
80°	255.1	251.9	270.8	283.4	245.6	292.9	406.2	343.2	274.0	233.0	220.4
82.5°	157.5	160.6	198.4	217.3	192.1	255.1	359.0	286.6	207.8	163.8	166.9
85°	81.9	91.3	132.3	144.9	126.0	188.9	270.8	192.1	116.5	85.0	85.0
87.5°	28.3	37.8	66.1	78.7	69.3	113.4	170.0	91.3	25.2	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)