

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: P400547

Luminaire Tested: **ARCH-L-PA3-90-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12346 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

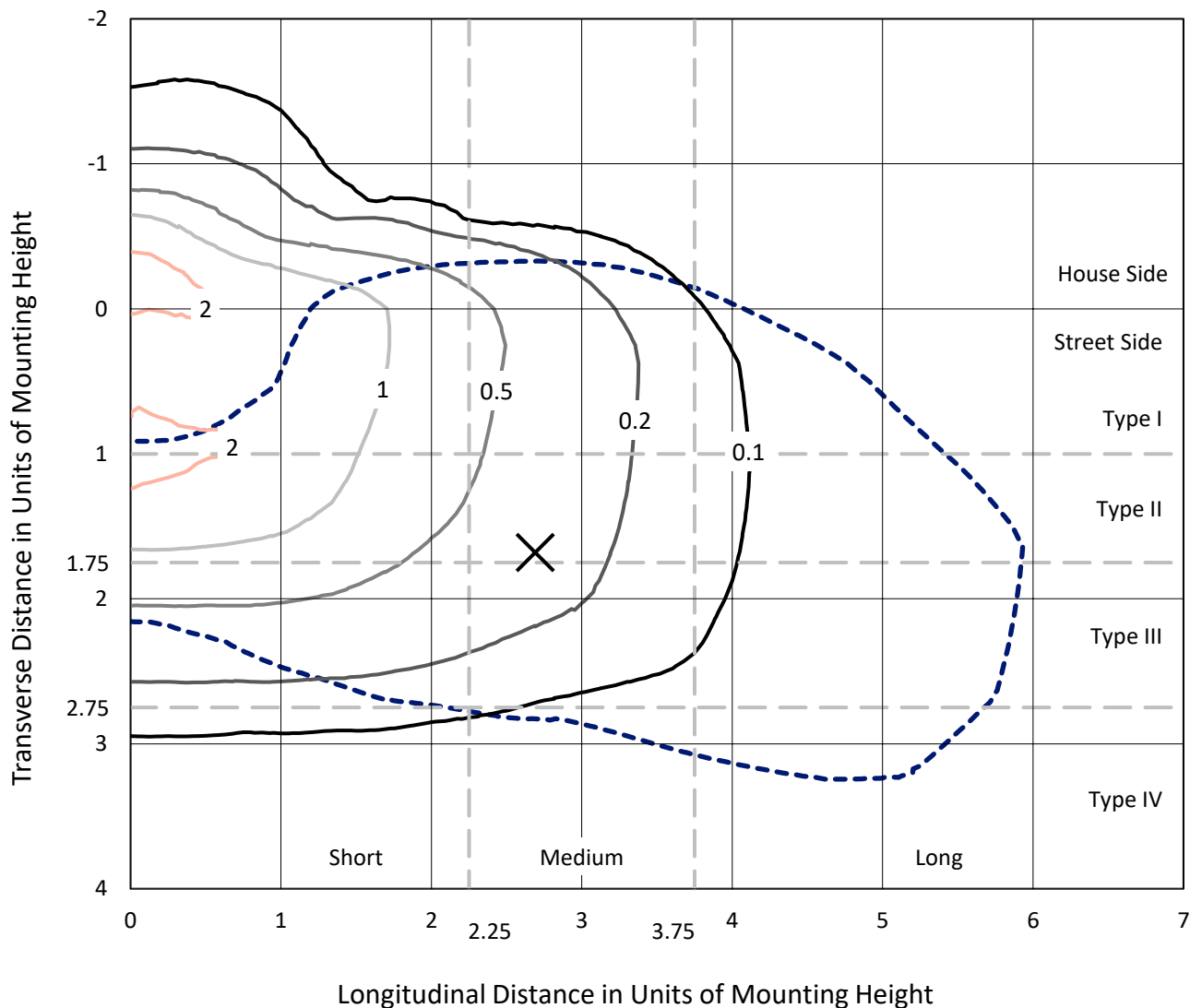
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

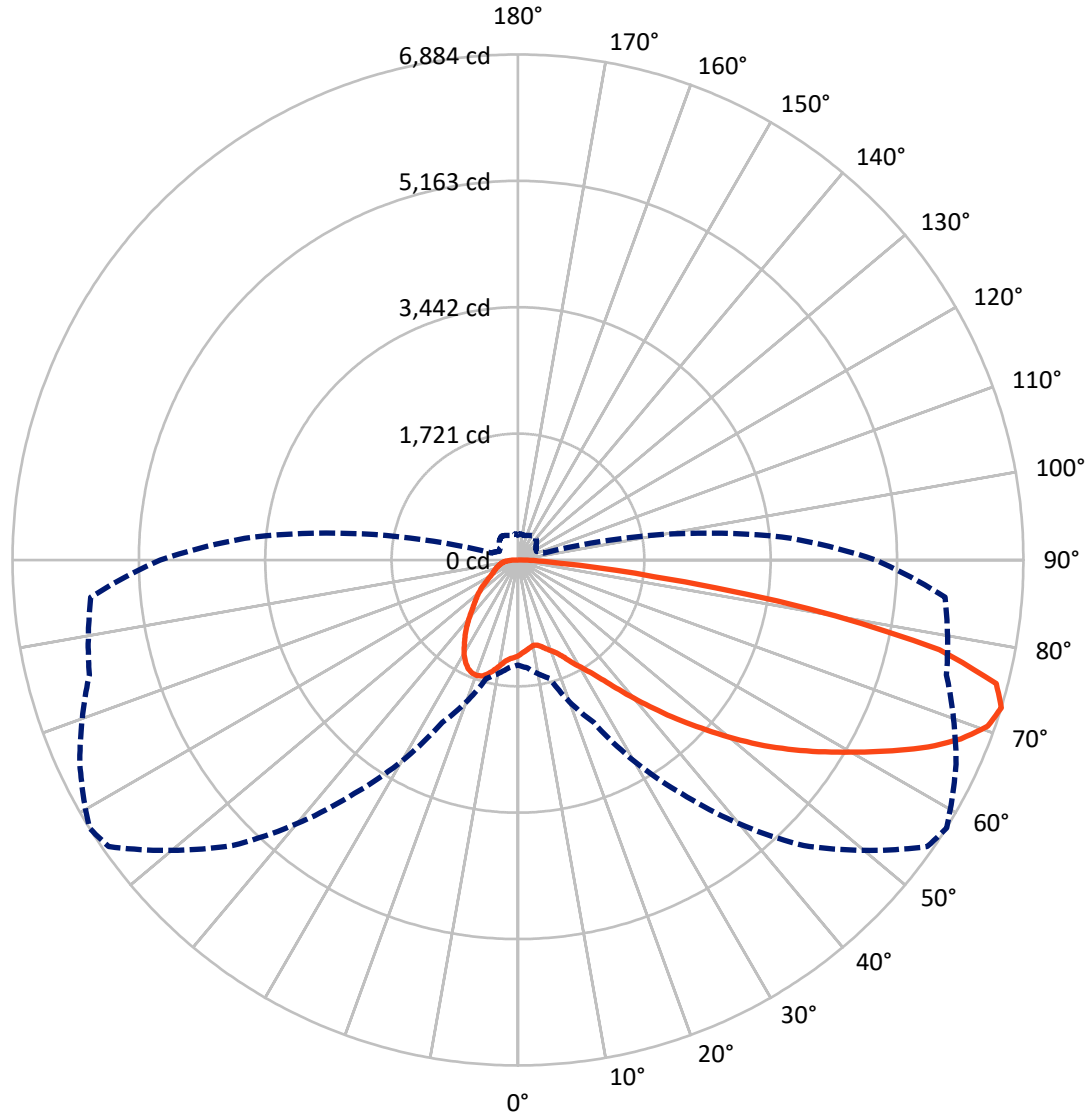
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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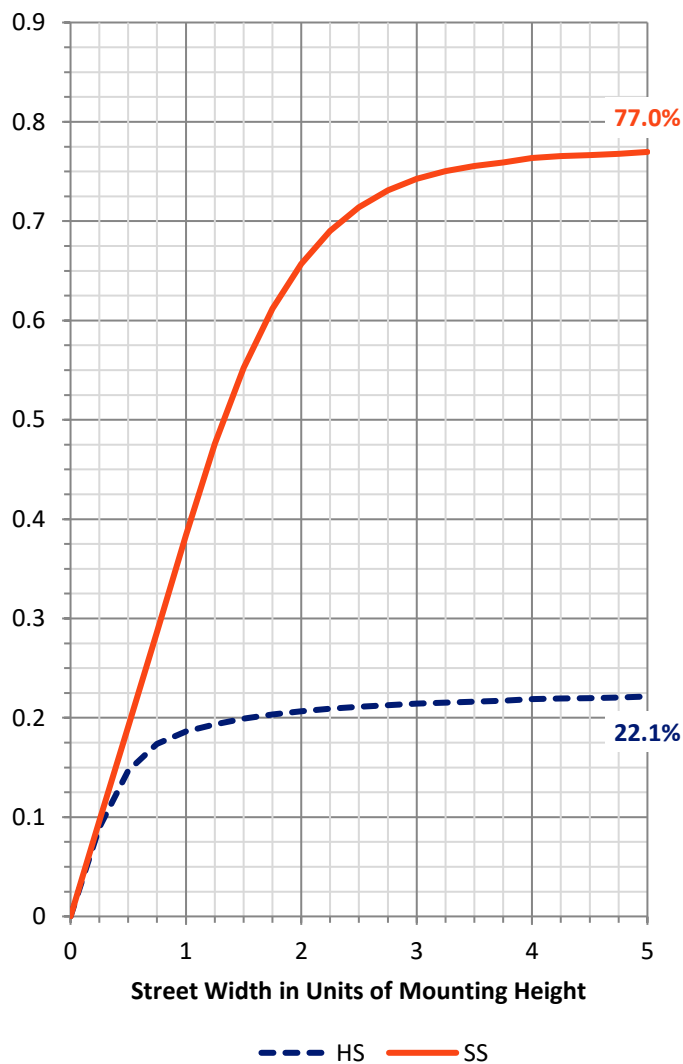
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2799.9	0.0	2799.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	9546.1	0.0	9546.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	12346.0	0.0	12346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	1.0
10°-20°	398.4	3.2
20°-30°	713.6	5.8
30°-40°	1073.5	8.7
40°-50°	1738.4	14.1
50°-60°	2616.9	21.2
60°-70°	3079.8	24.9
70°-80°	2183.8	17.7
80°-90°	416.1	3.4
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°	12346.0	100.0
0°-180°	12346.0	100.0

Coefficient of Utilization



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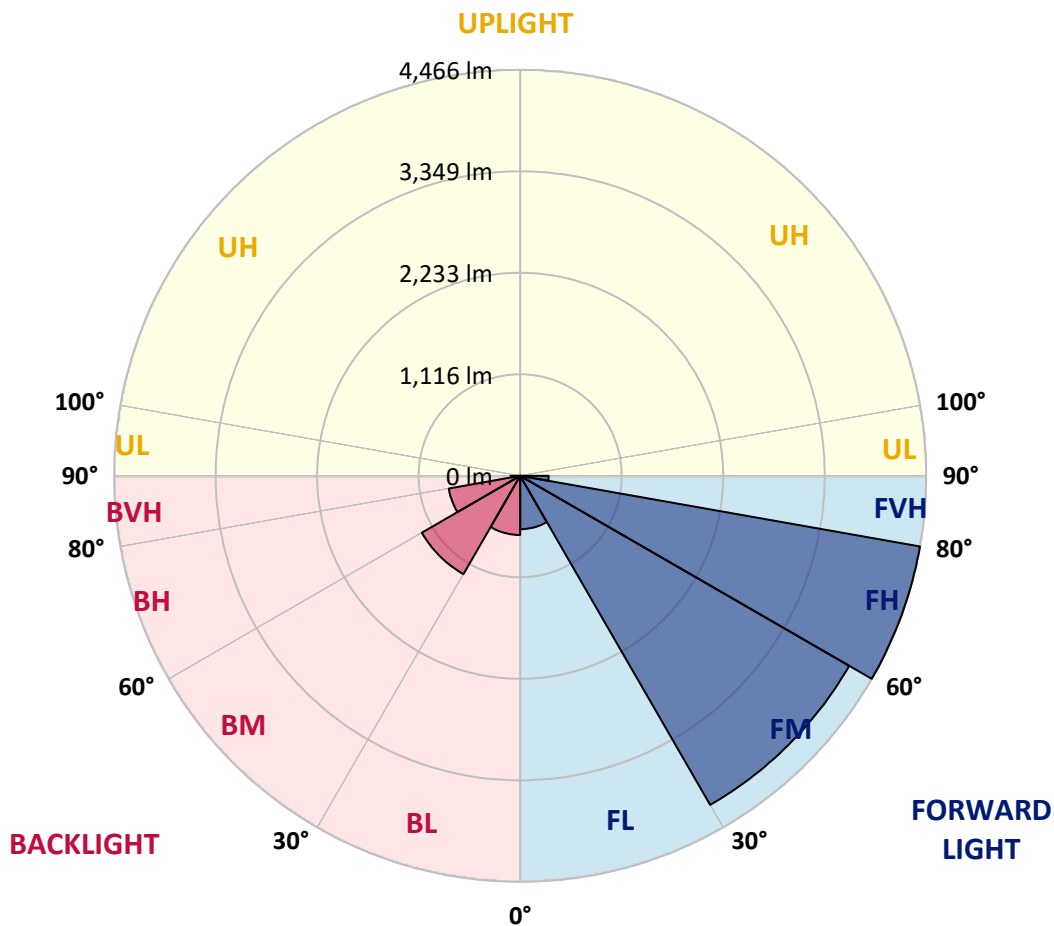
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.1	4.8			
FM (30°-60°)	4179.5	33.9			
FH (60°-80°)	4465.6	36.2			G2/5000
FVH (80°-90°)	313.9	2.5			G3/500
BL (0°-30°)	650.4	5.3	B2/1000		
BM (30°-60°)	1249.3	10.1	B2/2500		
BH (60°-80°)	798.0	6.5	B2/1000		G2/1000
BVH (80°-90°)	102.2	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2
2.5°	1253.3	1246.8	1248.5	1248.5	1255.0	1258.2	1259.9	1264.8	1268.0	1276.2	1287.6
5°	1194.7	1189.8	1191.4	1193.0	1204.5	1215.9	1225.6	1232.2	1241.9	1255.0	1271.3
7.5°	1152.3	1149.0	1150.7	1153.9	1163.7	1176.7	1193.0	1202.8	1217.5	1241.9	1269.6
10°	1121.3	1121.3	1123.0	1129.5	1139.3	1155.6	1168.6	1180.0	1209.3	1253.3	1295.7
12.5°	1096.9	1096.9	1101.8	1114.8	1131.1	1147.4	1178.4	1191.4	1230.5	1290.8	1341.4
15°	1095.3	1096.9	1098.5	1109.9	1127.8	1163.7	1209.3	1228.9	1276.2	1347.9	1406.6
17.5°	1121.3	1123.0	1116.4	1119.7	1140.9	1191.4	1251.7	1274.5	1334.8	1413.1	1473.4
20°	1201.2	1201.2	1181.6	1163.7	1178.4	1233.8	1302.2	1325.1	1391.9	1478.3	1538.6
22.5°	1364.2	1372.3	1326.7	1287.6	1264.8	1295.7	1357.7	1382.1	1457.1	1550.0	1610.3
25°	1561.4	1569.5	1507.6	1452.2	1409.8	1404.9	1445.7	1471.7	1533.7	1629.8	1680.4
27.5°	1752.1	1737.4	1680.4	1628.2	1574.4	1530.4	1561.4	1584.2	1655.9	1729.3	1760.2
30°	1902.0	1890.6	1835.2	1797.7	1747.2	1690.1	1672.2	1696.7	1755.3	1823.8	1840.1
32.5°	2068.3	2060.1	2004.7	1955.8	1913.4	1859.6	1820.5	1831.9	1864.5	1913.4	1923.2
35°	2280.1	2298.1	2239.4	2140.0	2092.7	2040.6	2012.8	2016.1	2040.6	2071.5	2055.2
37.5°	2503.4	2524.6	2527.9	2371.4	2307.9	2260.6	2231.2	2242.7	2272.0	2293.2	2242.7
40°	2917.4	2896.2	2811.5	2695.8	2598.0	2552.3	2511.6	2510.0	2531.1	2568.6	2477.4
42.5°	3466.7	3447.1	3276.0	3126.0	2971.2	2919.0	2839.2	2805.0	2814.7	2862.0	2734.9
45°	3993.1	3985.0	3848.0	3673.7	3487.9	3386.8	3204.3	3121.1	3113.0	3150.5	2998.9
47.5°	4460.9	4425.0	4325.6	4190.3	4170.8	3906.7	3571.0	3458.5	3419.4	3440.6	3271.1
50°	4961.2	4839.0	4702.1	4619.0	4760.8	4514.7	3940.9	3823.6	3727.4	3742.1	3566.1
52.5°	5226.9	5021.5	4931.9	4956.3	5147.0	5052.5	4343.5	4200.1	4045.3	4066.4	3859.5
55°	4998.7	4997.1	5036.2	5187.8	5453.4	5344.2	4726.5	4565.2	4395.7	4400.6	4196.8
57.5°	4685.8	4749.3	4951.4	5285.6	5833.2	5650.6	5103.0	4931.9	4777.1	4752.6	4579.8
60°	4400.6	4470.6	4764.0	5269.3	5965.2	5931.0	5461.6	5311.6	5186.1	5114.4	4982.4
62.5°	3967.0	4019.2	4434.8	5165.0	5854.4	6133.1	5825.0	5722.4	5627.8	5479.5	5416.0
65°	3456.9	3474.8	3913.2	4821.1	5715.8	6211.3	6186.9	6141.2	6050.0	5831.6	5844.6
67.5°	2904.4	2940.2	3324.9	4271.8	5412.7	6175.5	6467.2	6504.7	6397.1	6069.5	6118.4
70°	2316.0	2360.0	2651.7	3512.3	4897.7	6020.6	6726.3	6786.6	6579.7	6147.7	6168.9
72.5°	1432.6	1475.0	1670.6	2439.9	3882.3	5500.7	6806.2	6884.4	6584.5	6043.4	5839.7
75°	495.5	500.4	653.6	1170.2	2304.6	4152.8	6545.4	6729.6	6377.6	5663.7	5081.8
77.5°	226.5	234.7	290.1	482.4	1021.9	2241.0	5404.5	5865.8	5748.4	5070.4	3911.6
80°	156.5	159.7	200.5	288.5	590.0	788.8	3411.3	4012.7	4218.0	3926.3	2506.7
82.5°	117.3	120.6	154.8	195.6	425.4	383.0	1299.0	1864.5	2317.6	2275.3	1048.0
85°	112.5	110.8	120.6	130.4	283.6	228.2	420.5	577.0	904.6	774.2	264.0
87.5°	48.9	53.8	123.9	73.3	148.3	105.9	182.5	213.5	275.4	239.6	94.5
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°	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2
2.5°	1292.5	1295.7	1305.5	1320.2	1328.3	1344.6	1356.0	1362.5	1367.4	1369.1	1369.1
5°	1281.1	1287.6	1308.8	1333.2	1356.0	1390.3	1421.2	1439.1	1452.2	1457.1	1458.7
7.5°	1284.3	1300.6	1331.6	1367.4	1396.8	1440.8	1478.3	1514.1	1543.5	1554.9	1554.9
10°	1315.3	1338.1	1380.5	1427.7	1465.2	1510.9	1550.0	1580.9	1615.2	1634.7	1638.0
12.5°	1362.5	1390.3	1445.7	1497.8	1540.2	1576.1	1611.9	1634.7	1651.0	1665.7	1669.0
15°	1429.4	1463.6	1519.0	1572.8	1610.3	1633.1	1642.9	1642.9	1641.2	1642.9	1646.1
17.5°	1496.2	1528.8	1584.2	1638.0	1655.9	1642.9	1631.5	1628.2	1626.6	1623.3	1624.9
20°	1561.4	1592.4	1639.6	1680.4	1665.7	1620.1	1605.4	1603.8	1598.9	1595.6	1592.4
22.5°	1626.6	1649.4	1688.5	1703.2	1644.5	1579.3	1561.4	1551.6	1545.1	1536.9	1528.8
25°	1701.6	1708.1	1737.4	1714.6	1592.4	1504.3	1478.3	1463.6	1457.1	1448.9	1442.4
27.5°	1771.6	1771.6	1776.5	1696.7	1515.7	1404.9	1365.8	1339.7	1338.1	1336.5	1334.8
30°	1835.2	1827.0	1810.7	1642.9	1416.3	1282.7	1224.0	1197.9	1207.7	1215.9	1217.5
32.5°	1910.2	1893.9	1848.2	1569.5	1297.4	1145.8	1074.1	1062.7	1074.1	1083.8	1077.3
35°	2027.5	1998.2	1887.4	1484.8	1183.3	1020.3	951.8	935.5	932.3	930.6	917.6
37.5°	2195.4	2144.9	1918.3	1393.5	1070.8	909.4	858.9	824.7	793.7	761.1	756.2
40°	2400.8	2314.4	1939.5	1289.2	951.8	816.5	762.8	718.8	666.6	609.6	603.0
42.5°	2625.7	2496.9	1949.3	1173.5	847.5	739.9	673.1	617.7	559.0	515.0	506.9
45°	2868.5	2694.1	1941.1	1062.7	762.8	674.8	599.8	539.5	492.2	461.2	454.7
47.5°	3104.8	2920.7	1918.3	974.6	697.6	619.3	542.7	487.3	451.5	417.2	409.1
50°	3408.0	3137.4	1890.6	906.2	625.9	563.9	506.9	448.2	407.5	391.2	387.9
52.5°	3743.7	3354.2	1858.0	819.8	555.8	519.9	484.1	431.9	418.9	387.9	383.0
55°	4107.2	3611.7	1851.5	710.6	493.8	489.0	461.2	446.6	449.8	387.9	379.8
57.5°	4490.2	3887.2	1866.2	601.4	443.3	461.2	471.0	459.6	454.7	396.1	379.8
60°	4889.5	4152.8	1822.2	500.4	404.2	438.4	482.4	453.1	417.2	392.8	381.4
62.5°	5277.4	4376.1	1631.5	428.6	374.9	431.9	475.9	428.6	387.9	387.9	383.0
65°	5559.4	4475.5	1276.2	376.5	355.3	423.8	464.5	412.3	379.8	391.2	384.6
67.5°	5592.0	4372.9	857.3	335.7	339.0	409.1	438.4	397.7	371.6	400.9	391.2
70°	5391.5	4105.6	524.8	304.8	317.8	383.0	415.6	383.0	360.2	392.8	378.1
72.5°	4871.6	3606.8	370.0	278.7	295.0	358.6	394.4	370.0	343.9	355.3	340.6
75°	3996.4	2795.2	293.4	254.3	272.2	335.7	376.5	350.4	324.3	319.4	309.7
77.5°	2831.0	1791.2	236.3	234.7	247.7	308.0	352.0	327.6	301.5	291.7	285.2
80°	1628.2	878.5	203.7	211.9	224.9	280.3	322.7	301.5	277.1	262.4	252.6
82.5°	622.6	306.4	179.3	184.2	198.8	251.0	293.4	275.4	251.0	264.0	221.7
85°	202.1	167.9	146.7	151.6	166.2	208.6	259.1	244.5	216.8	192.3	177.7
87.5°	89.6	91.3	78.2	86.4	104.3	138.5	189.1	179.3	158.1	132.0	127.1
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)