

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: P397568

Luminaire Tested: **ARCH-S-PA1-100-750-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397568  
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-S-PA1-100-750-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11784 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 96  
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

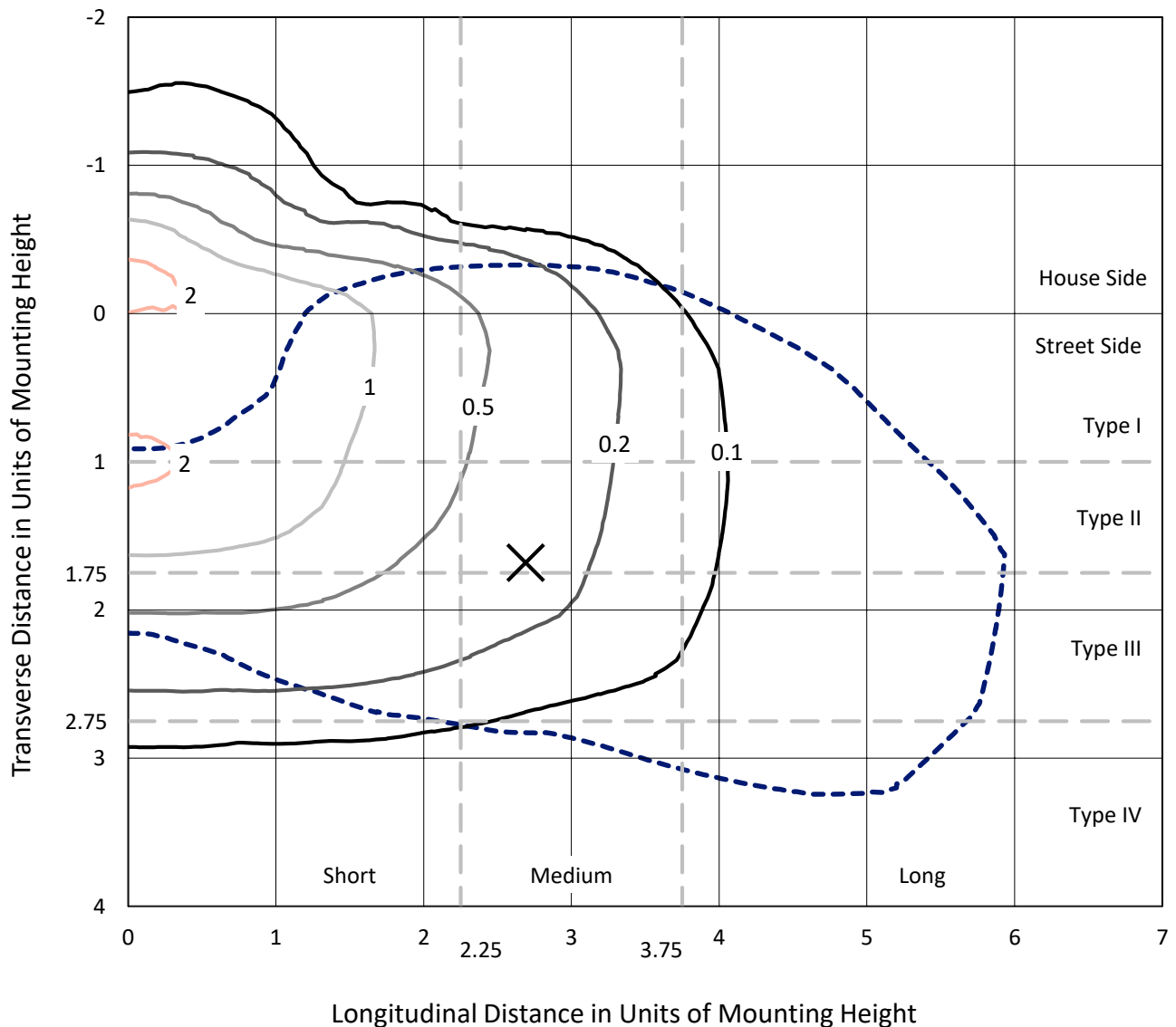


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### Iso-Footcandle Lines of Horizontal Illumination

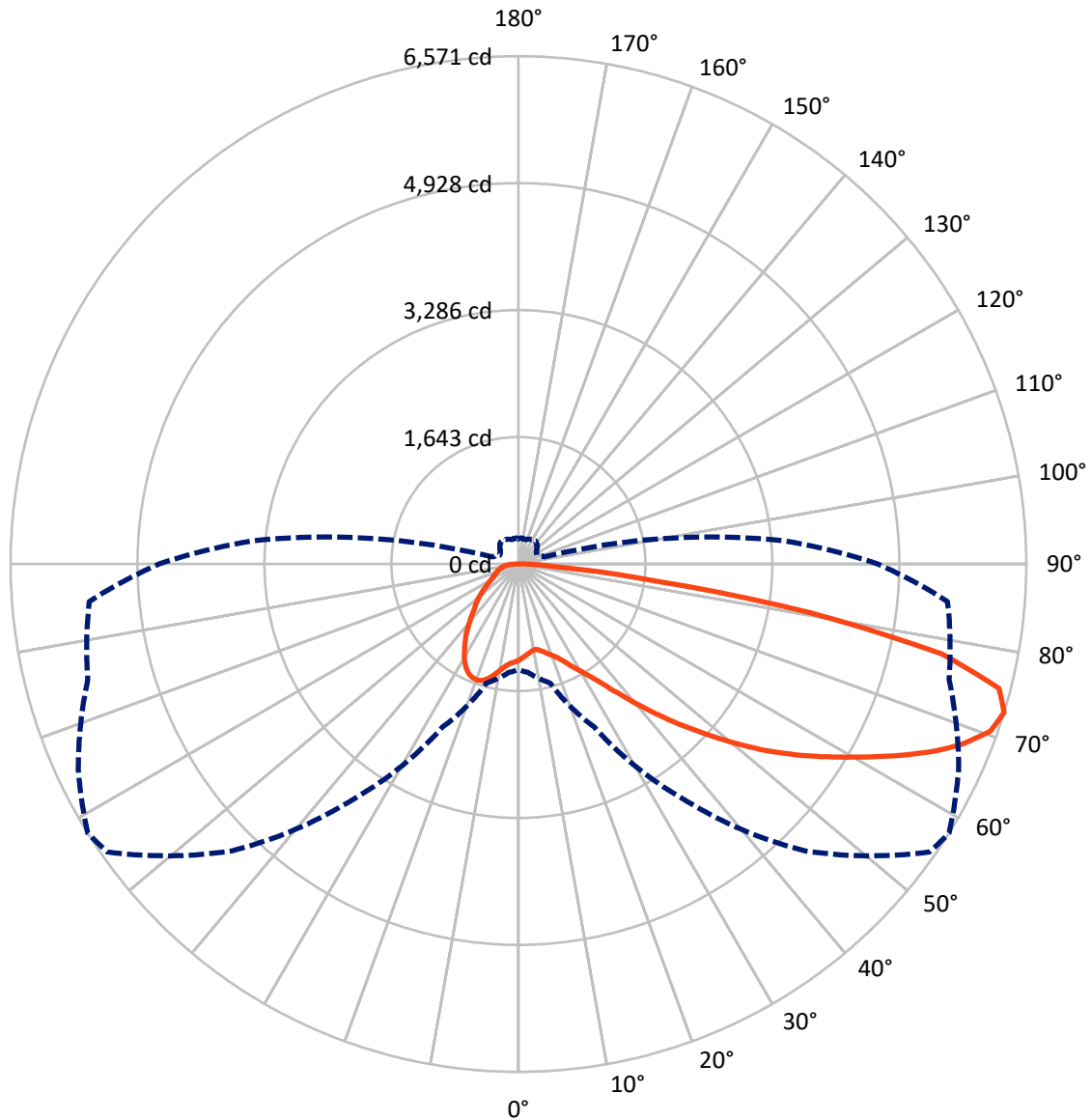
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Medium - Non-Cutoff

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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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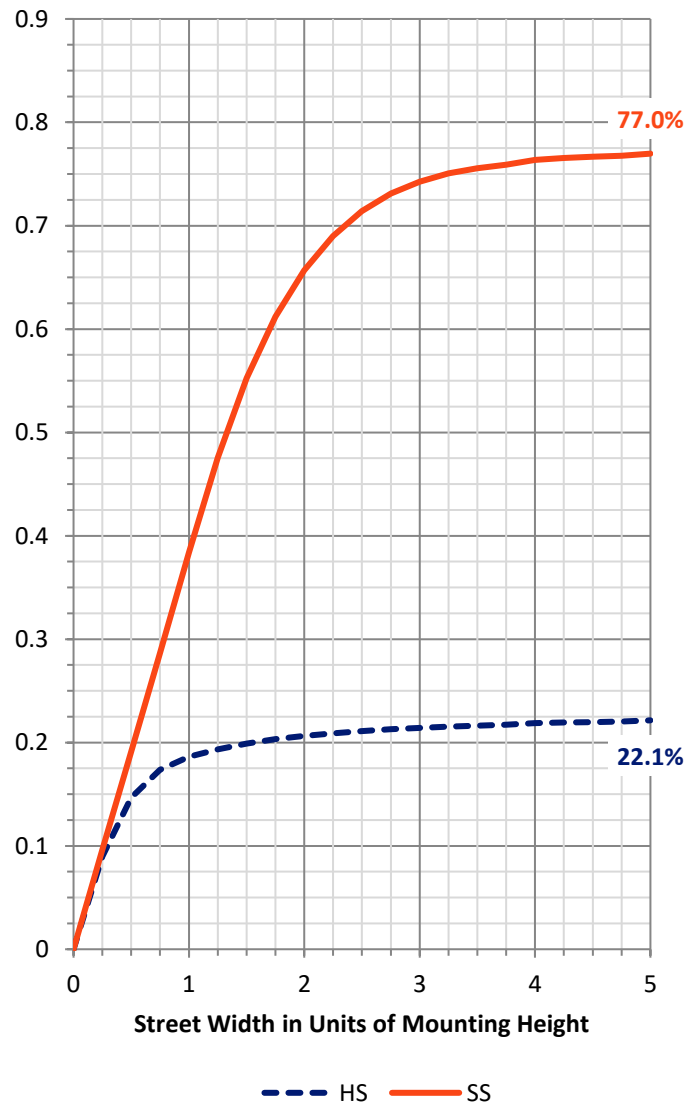
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2672.5	0.0	2672.5
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	9111.5	0.0	9111.5
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	11784.0	0.0	11784.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.7	1.0
10°-20°	380.3	3.2
20°-30°	681.2	5.8
30°-40°	1024.7	8.7
40°-50°	1659.3	14.1
50°-60°	2497.7	21.2
60°-70°	2939.6	24.9
70°-80°	2084.4	17.7
80°-90°	397.2	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°	11784.0	100.0
0°-180°	11784.0	100.0



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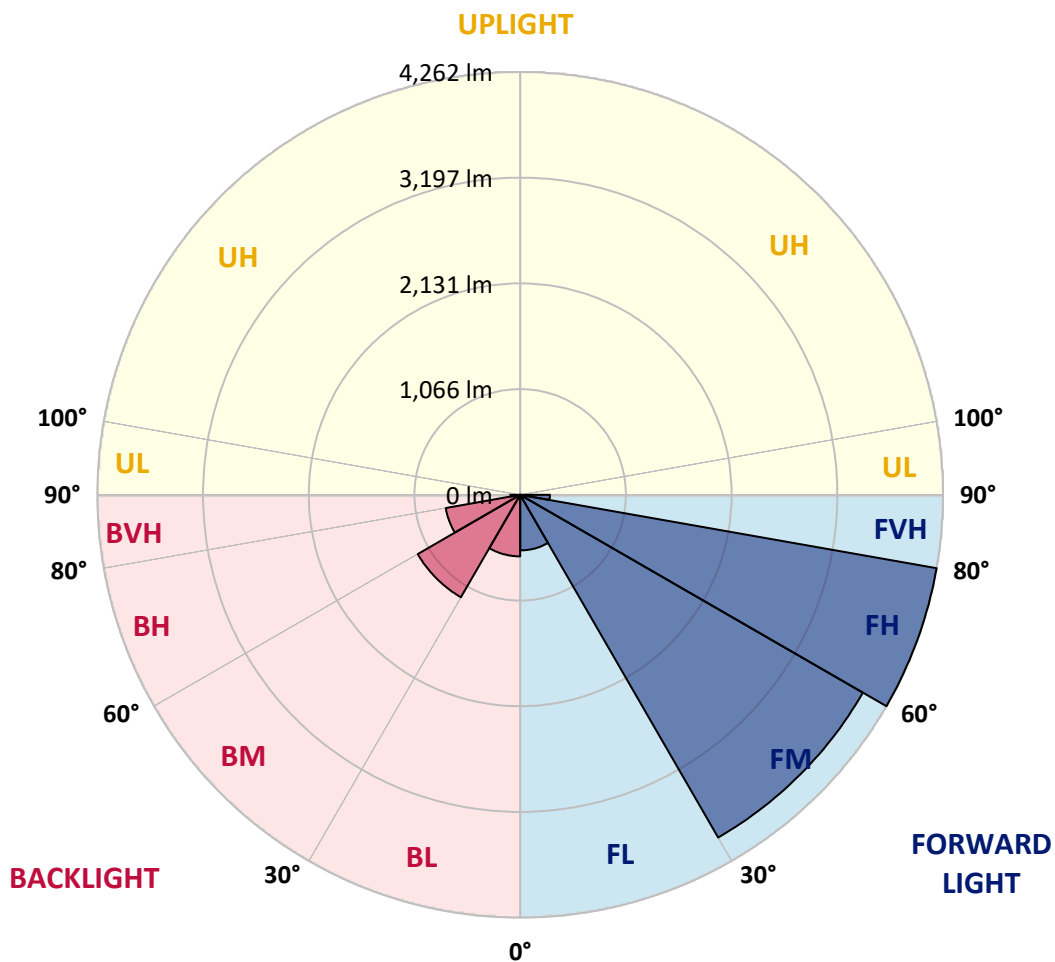
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.4	4.8			
FM	(30°-60°)	3989.2	33.9			
FH	(60°-80°)	4262.3	36.2			G2/5000
FVH	(80°-90°)	299.6	2.5			G3/500
BL	(0°-30°)	620.8	5.3	B2/1000		
BM	(30°-60°)	1192.4	10.1	B2/2500		
BH	(60°-80°)	761.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	97.6	0.8			G1/100
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°	1243.0	1243.0	1243.0	1243.0	1243.0	1243.0	1243.0	1243.0	1243.0	1243.0	1243.0
2.5°	1196.3	1190.1	1191.6	1191.6	1197.8	1201.0	1202.5	1207.2	1210.3	1218.1	1229.0
5°	1140.3	1135.6	1137.2	1138.7	1149.6	1160.5	1169.8	1176.1	1185.4	1197.8	1213.4
7.5°	1099.8	1096.7	1098.3	1101.4	1110.7	1123.2	1138.7	1148.1	1162.1	1185.4	1211.8
10°	1070.3	1070.3	1071.8	1078.1	1087.4	1103.0	1115.4	1126.3	1154.3	1196.3	1236.7
12.5°	1047.0	1047.0	1051.6	1064.1	1079.6	1095.2	1124.7	1137.2	1174.5	1232.1	1280.3
15°	1045.4	1047.0	1048.5	1059.4	1076.5	1110.7	1154.3	1173.0	1218.1	1286.5	1342.5
17.5°	1070.3	1071.8	1065.6	1068.7	1089.0	1137.2	1194.7	1216.5	1274.1	1348.7	1406.3
20°	1146.5	1146.5	1127.8	1110.7	1124.7	1177.6	1243.0	1264.7	1328.5	1411.0	1468.5
22.5°	1302.1	1309.9	1266.3	1229.0	1207.2	1236.7	1295.9	1319.2	1390.7	1479.4	1537.0
25°	1490.3	1498.1	1439.0	1386.1	1345.6	1341.0	1379.9	1404.7	1463.9	1555.6	1603.9
27.5°	1672.3	1658.3	1603.9	1554.1	1502.8	1460.8	1490.3	1512.1	1580.5	1650.5	1680.1
30°	1815.4	1804.5	1751.7	1715.9	1667.7	1613.2	1596.1	1619.4	1675.4	1740.8	1756.3
32.5°	1974.1	1966.3	1913.4	1866.8	1826.3	1775.0	1737.7	1748.5	1779.7	1826.3	1835.7
35°	2176.3	2193.5	2137.5	2042.6	1997.4	1947.7	1921.2	1924.3	1947.7	1977.2	1961.7
37.5°	2389.5	2409.7	2412.8	2263.5	2202.8	2157.7	2129.7	2140.6	2168.6	2188.8	2140.6
40°	2784.6	2764.4	2683.5	2573.0	2479.7	2436.1	2397.3	2395.7	2415.9	2451.7	2364.6
42.5°	3308.9	3290.2	3126.8	2983.7	2835.9	2786.2	2709.9	2677.3	2686.6	2731.7	2610.4
45°	3811.3	3803.6	3672.9	3506.4	3329.1	3232.6	3058.4	2979.1	2971.3	3007.1	2862.4
47.5°	4257.8	4223.6	4128.7	3999.6	3980.9	3728.9	3408.4	3301.1	3263.7	3284.0	3122.2
50°	4735.4	4618.7	4488.0	4408.7	4544.0	4309.1	3761.6	3649.5	3557.8	3571.8	3403.8
52.5°	4989.0	4792.9	4707.4	4730.7	4912.7	4822.5	4145.8	4008.9	3861.1	3881.3	3683.8
55°	4771.2	4769.6	4806.9	4951.6	5205.2	5101.0	4511.4	4357.4	4195.6	4200.2	4005.8
57.5°	4472.5	4533.2	4726.1	5045.0	5567.7	5393.4	4870.7	4707.4	4559.6	4536.3	4371.4
60°	4200.2	4267.1	4547.2	5029.4	5693.7	5661.0	5213.0	5069.9	4950.1	4881.6	4755.6
62.5°	3786.4	3836.2	4232.9	4929.8	5587.9	5853.9	5559.9	5461.9	5371.6	5230.1	5169.4
65°	3299.5	3316.6	3735.1	4601.6	5455.7	5928.6	5905.2	5861.7	5774.6	5566.1	5578.5
67.5°	2772.2	2806.4	3173.5	4077.3	5166.3	5894.3	6172.8	6208.6	6105.9	5793.2	5839.9
70°	2210.6	2252.6	2531.0	3352.4	4674.7	5746.6	6420.2	6477.7	6280.1	5867.9	5888.1
72.5°	1367.4	1407.9	1594.5	2328.8	3705.5	5250.3	6496.4	6571.1	6284.8	5768.3	5573.9
75°	472.9	477.6	623.8	1117.0	2199.7	3963.8	6247.5	6423.3	6087.2	5405.9	4850.5
77.5°	216.2	224.0	276.9	460.5	975.4	2139.0	5158.5	5598.8	5486.8	4839.6	3733.6
80°	149.3	152.5	191.3	275.3	563.1	752.9	3256.0	3830.0	4026.0	3747.6	2392.6
82.5°	112.0	115.1	147.8	186.7	406.0	365.6	1239.9	1779.7	2212.1	2171.7	1000.3
85°	107.3	105.8	115.1	124.5	270.7	217.8	401.4	550.7	863.4	738.9	252.0
87.5°	46.7	51.3	118.2	70.0	141.6	101.1	174.2	203.8	262.9	228.7	90.2
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°	1243.0	1243.0	1243.0	1243.0	1243.0	1243.0	1243.0	1243.0	1243.0	1243.0	1243.0
2.5°	1233.6	1236.7	1246.1	1260.1	1267.9	1283.4	1294.3	1300.5	1305.2	1306.7	1306.7
5°	1222.7	1229.0	1249.2	1272.5	1294.3	1327.0	1356.5	1373.6	1386.1	1390.7	1392.3
7.5°	1225.8	1241.4	1271.0	1305.2	1333.2	1375.2	1411.0	1445.2	1473.2	1484.1	1484.1
10°	1255.4	1277.2	1317.6	1362.7	1398.5	1442.1	1479.4	1509.0	1541.6	1560.3	1563.4
12.5°	1300.5	1327.0	1379.9	1429.6	1470.1	1504.3	1538.5	1560.3	1575.9	1589.9	1593.0
15°	1364.3	1397.0	1449.9	1501.2	1537.0	1558.8	1568.1	1568.1	1566.5	1568.1	1571.2
17.5°	1428.1	1459.2	1512.1	1563.4	1580.5	1568.1	1557.2	1554.1	1552.5	1549.4	1551.0
20°	1490.3	1519.9	1565.0	1603.9	1589.9	1546.3	1532.3	1530.8	1526.1	1523.0	1519.9
22.5°	1552.5	1574.3	1611.6	1625.7	1569.6	1507.4	1490.3	1481.0	1474.8	1467.0	1459.2
25°	1624.1	1630.3	1658.3	1636.5	1519.9	1435.9	1411.0	1397.0	1390.7	1383.0	1376.7
27.5°	1691.0	1691.0	1695.7	1619.4	1446.8	1341.0	1303.6	1278.7	1277.2	1275.6	1274.1
30°	1751.7	1743.9	1728.3	1568.1	1351.9	1224.3	1168.3	1143.4	1152.7	1160.5	1162.1
32.5°	1823.2	1807.7	1764.1	1498.1	1238.3	1093.6	1025.2	1014.3	1025.2	1034.5	1028.3
35°	1935.2	1907.2	1801.4	1417.2	1129.4	973.8	908.5	892.9	889.8	888.3	875.8
37.5°	2095.5	2047.2	1831.0	1330.1	1022.1	868.1	819.8	787.2	757.6	726.5	721.8
40°	2291.5	2209.0	1851.2	1230.5	908.5	779.4	728.0	686.0	636.3	581.8	575.6
42.5°	2506.1	2383.3	1860.6	1120.1	808.9	706.3	642.5	589.6	533.6	491.6	483.8
45°	2737.9	2571.5	1852.8	1014.3	728.0	644.0	572.5	514.9	469.8	440.2	434.0
47.5°	2963.5	2787.7	1831.0	930.3	665.8	591.1	518.0	465.1	430.9	398.2	390.5
50°	3252.9	2994.6	1804.5	864.9	597.4	538.3	483.8	427.8	388.9	373.4	370.2
52.5°	3573.3	3201.5	1773.4	782.5	530.5	496.3	462.0	412.2	399.8	370.2	365.6
55°	3920.2	3447.3	1767.2	678.3	471.4	466.7	440.2	426.2	429.4	370.2	362.5
57.5°	4285.8	3710.2	1781.2	574.0	423.1	440.2	449.6	438.7	434.0	378.0	362.5
60°	4666.9	3963.8	1739.2	477.6	385.8	418.5	460.5	432.5	398.2	374.9	364.0
62.5°	5037.2	4176.9	1557.2	409.1	357.8	412.2	454.2	409.1	370.2	370.2	365.6
65°	5306.3	4271.8	1218.1	359.4	339.1	404.5	443.4	393.6	362.5	373.4	367.1
67.5°	5337.4	4173.8	818.3	320.5	323.6	390.5	418.5	379.6	354.7	382.7	373.4
70°	5146.1	3918.7	500.9	290.9	303.4	365.6	396.7	365.6	343.8	374.9	360.9
72.5°	4649.8	3442.6	353.1	266.0	281.6	342.2	376.5	353.1	328.2	339.1	325.1
75°	3814.4	2667.9	280.0	242.7	259.8	320.5	359.4	334.5	309.6	304.9	295.6
77.5°	2702.2	1709.7	225.6	224.0	236.5	294.0	336.0	312.7	287.8	278.5	272.2
80°	1554.1	838.5	194.5	202.2	214.7	267.6	308.0	287.8	264.5	250.5	241.1
82.5°	594.3	292.5	171.1	175.8	189.8	239.6	280.0	262.9	239.6	252.0	211.6
85°	192.9	160.2	140.0	144.7	158.7	199.1	247.3	233.3	206.9	183.6	169.6
87.5°	85.6	87.1	74.7	82.4	99.6	132.2	180.5	171.1	150.9	126.0	121.3
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)