

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: P382805

Luminaire Tested: **GAN-SA1D-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7190.6 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

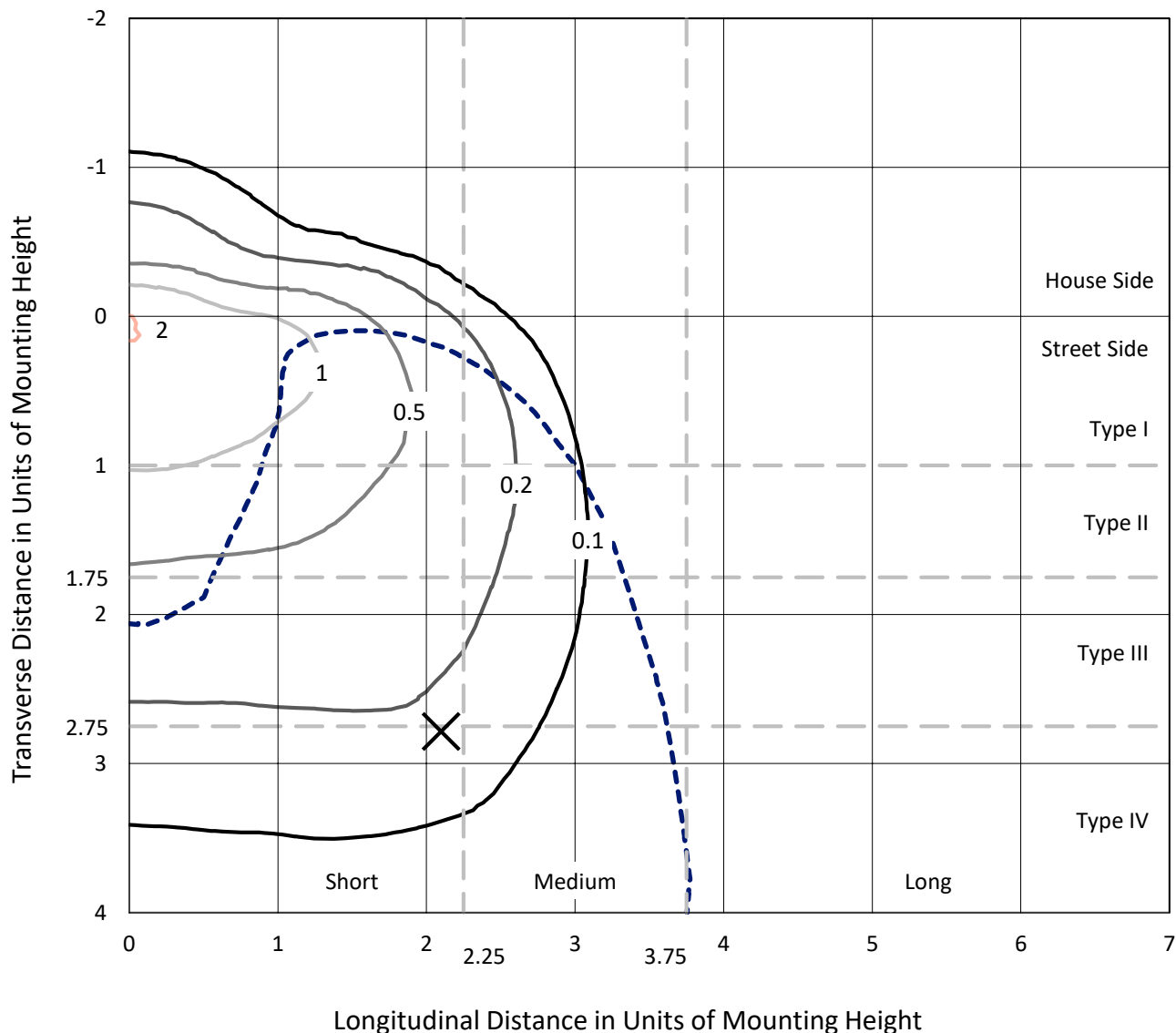
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

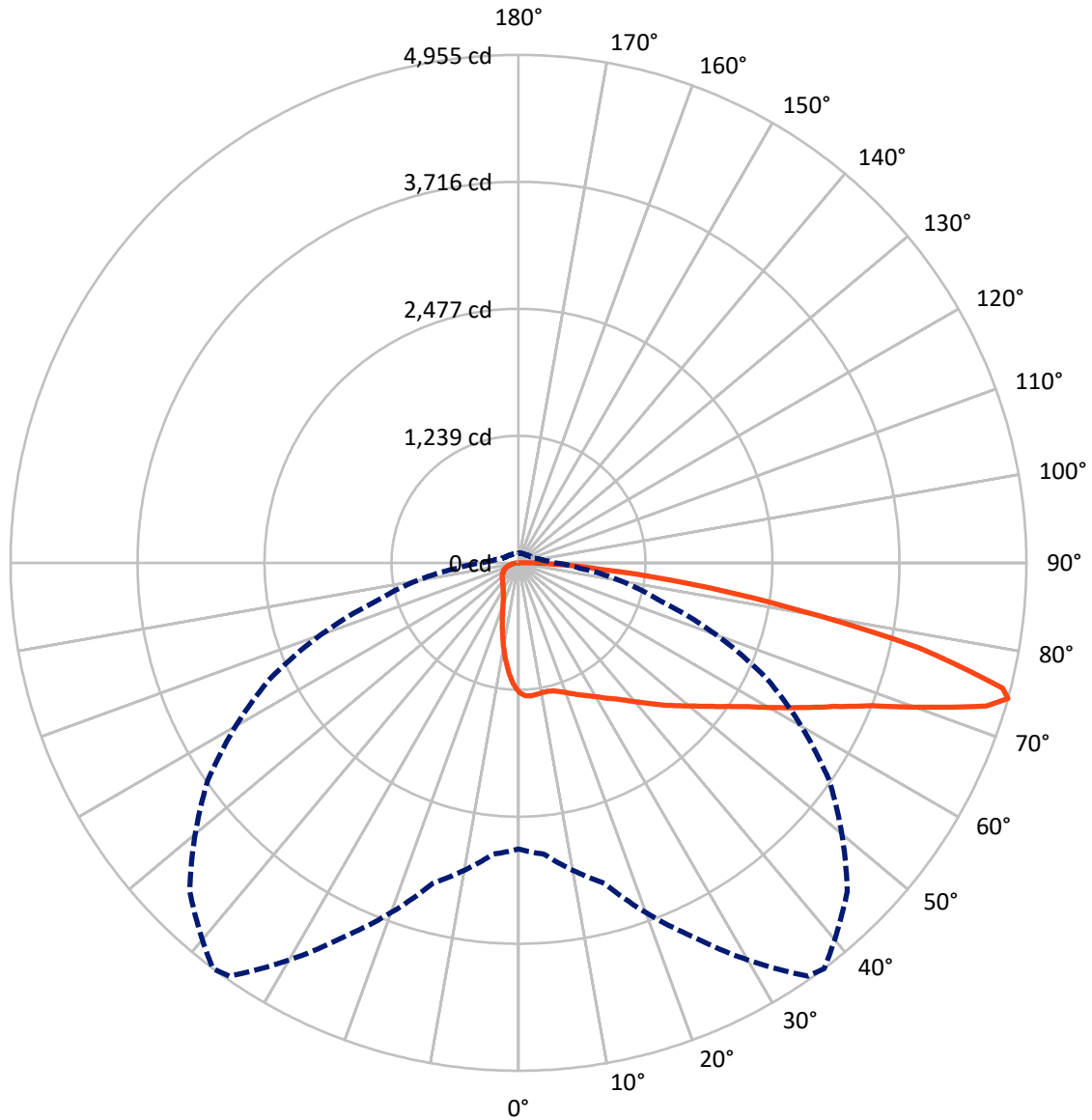
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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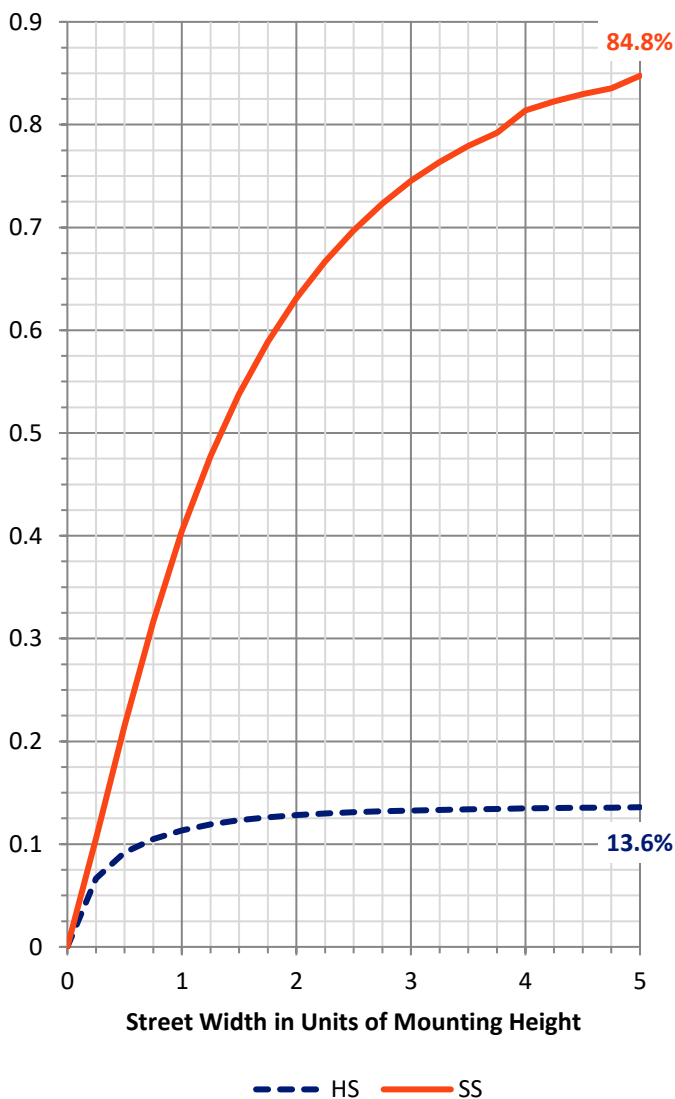
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	989.4	0.0	989.4
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	6201.2	0.0	6201.2
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	7190.6	0.0	7190.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.6	1.6
10°-20°	286.0	4.0
20°-30°	440.6	6.1
30°-40°	640.8	8.9
40°-50°	943.1	13.1
50°-60°	1324.4	18.4
60°-70°	1676.3	23.3
70°-80°	1476.0	20.5
80°-90°	291.8	4.1
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°	7190.6	100.0
0°-180°	7190.6	100.0

**Coefficient of Utilization**

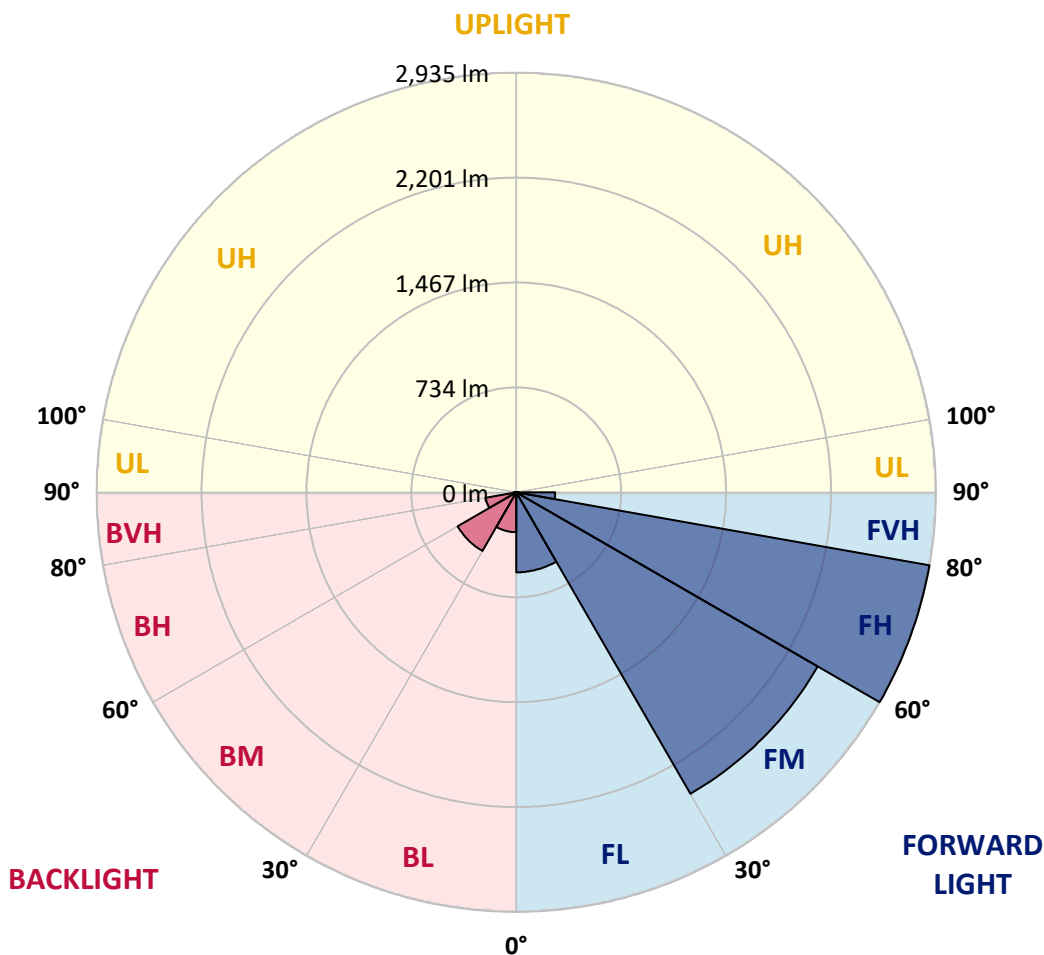


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.5	7.8			
FM (30°-60°)	2434.8	33.9			
FH (60°-80°)	2934.8	40.8			G2/5000
FVH (80°-90°)	272.1	3.8			G3/500
BL (0°-30°)	278.7	3.9	B1/500		
BM (30°-60°)	473.5	6.6	B1/1000		
BH (60°-80°)	217.5	3.0	B1/500		G1/500
BVH (80°-90°)	19.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0
2.5°	1310.3	1310.5	1310.3	1308.3	1303.4	1299.4	1296.1	1291.3	1280.6	1272.5	1260.4
5°	1322.7	1321.1	1320.2	1316.4	1308.7	1304.2	1297.8	1288.7	1271.3	1255.1	1235.3
7.5°	1316.8	1315.1	1312.8	1308.3	1299.6	1295.9	1286.9	1275.1	1254.0	1232.8	1204.4
10°	1298.9	1298.4	1297.4	1296.3	1289.0	1286.0	1277.8	1265.2	1244.5	1218.6	1185.4
12.5°	1278.8	1280.1	1284.1	1289.5	1286.2	1284.7	1279.7	1271.0	1249.8	1221.9	1181.9
15°	1266.2	1269.7	1280.6	1294.6	1297.4	1296.8	1295.6	1290.0	1267.5	1236.5	1190.0
17.5°	1261.9	1267.7	1288.5	1311.5	1319.6	1321.4	1322.0	1312.3	1287.2	1254.5	1198.3
20°	1269.7	1277.1	1307.5	1339.2	1352.0	1353.1	1350.8	1334.1	1305.9	1270.0	1202.9
22.5°	1293.5	1300.2	1338.2	1373.8	1388.6	1390.1	1383.3	1357.9	1325.7	1288.2	1209.2
25°	1339.4	1347.5	1385.5	1421.2	1428.8	1429.1	1419.2	1387.8	1351.6	1313.9	1222.8
27.5°	1399.2	1407.3	1441.5	1476.4	1472.4	1470.1	1456.7	1425.3	1385.2	1349.1	1247.2
30°	1465.8	1474.6	1507.1	1531.9	1522.2	1517.7	1506.8	1466.3	1432.1	1397.1	1284.4
32.5°	1534.7	1542.8	1571.1	1588.1	1576.0	1573.9	1557.5	1520.5	1493.2	1470.6	1344.7
35°	1605.3	1611.2	1639.1	1648.7	1632.4	1632.0	1627.4	1593.4	1576.3	1586.9	1432.3
37.5°	1677.5	1679.0	1702.9	1703.3	1698.6	1700.6	1705.4	1684.1	1688.9	1722.2	1546.4
40°	1741.9	1745.9	1763.1	1768.4	1776.8	1783.9	1807.9	1794.1	1831.3	1890.0	1688.2
42.5°	1789.5	1797.3	1825.0	1838.6	1865.7	1876.9	1910.8	1923.7	1998.7	2086.9	1856.9
45°	1829.7	1841.9	1886.3	1914.3	1960.3	1979.7	2028.4	2071.7	2187.9	2300.4	2034.4
47.5°	1873.3	1888.8	1944.2	1998.0	2060.3	2082.3	2170.7	2235.5	2389.8	2515.2	2201.9
50°	1937.4	1949.4	2003.6	2087.9	2165.7	2194.0	2316.4	2409.3	2594.9	2719.8	2347.0
52.5°	2026.9	2022.3	2068.1	2186.4	2290.8	2325.7	2471.9	2594.2	2802.9	2905.0	2469.6
55°	2116.8	2109.1	2141.3	2289.5	2436.6	2473.4	2643.1	2779.8	3000.7	3071.7	2563.5
57.5°	2216.8	2202.4	2229.5	2405.7	2602.8	2646.6	2834.8	2977.1	3195.3	3206.4	2623.3
60°	2319.9	2300.4	2330.7	2549.8	2813.8	2865.4	3059.2	3169.7	3378.6	3314.3	2642.6
62.5°	2410.1	2396.4	2443.3	2710.7	3051.7	3108.4	3279.6	3374.3	3559.5	3359.2	2573.2
65°	2488.8	2491.1	2572.2	2891.5	3316.9	3377.4	3532.4	3626.6	3701.9	3332.5	2410.8
67.5°	2582.8	2595.8	2734.0	3129.6	3650.6	3717.1	3900.2	3901.7	3781.3	3176.5	2091.1
70°	2719.8	2746.4	2956.6	3460.0	4125.4	4216.6	4357.9	4063.3	3669.6	2753.6	1645.4
72.5°	2841.4	2891.1	3193.5	3837.9	4703.8	4773.0	4625.6	3970.1	3202.8	2063.6	1025.1
74°	2792.0	2853.6	3236.6	4024.0	4921.6	4954.9	4535.1	3698.1	2670.5	1429.1	595.7
75°	2685.7	2752.5	3173.7	4022.2	4894.1	4875.6	4316.8	3387.3	2199.3	974.7	396.4
77.5°	2167.4	2238.0	2674.2	3447.3	4012.9	3995.4	3316.1	2272.2	963.2	319.6	201.4
80°	1260.1	1314.0	1660.1	2189.2	2705.9	2737.5	2180.8	1124.4	379.0	179.6	136.6
82.5°	559.8	597.0	801.9	1117.5	1633.0	1673.7	1142.1	589.1	234.0	109.2	82.1
85°	367.3	394.9	486.8	532.2	777.6	805.5	559.0	458.7	154.5	60.0	60.3
87.5°	264.2	290.7	361.7	315.9	356.9	337.9	304.2	424.5	62.0	34.2	20.3
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°	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0
2.5°	1255.1	1251.0	1241.8	1224.7	1215.0	1206.9	1193.5	1185.7	1182.1	1181.9	1183.3
5°	1223.9	1214.6	1191.0	1162.1	1139.0	1118.0	1092.0	1076.2	1065.1	1058.5	1060.3
7.5°	1187.7	1173.0	1136.0	1089.9	1052.9	1012.1	971.9	947.8	929.0	915.2	917.7
10°	1162.9	1142.6	1088.6	1022.3	960.7	901.5	846.0	812.8	786.5	766.2	767.7
12.5°	1154.5	1127.2	1052.5	963.8	877.4	796.4	723.9	672.9	645.9	622.8	624.6
15°	1155.8	1119.1	1022.0	911.1	802.4	700.3	612.5	553.0	516.2	500.2	500.5
17.5°	1156.8	1109.7	990.1	854.6	728.2	610.7	515.2	454.9	420.2	405.5	405.8
20°	1153.4	1094.5	950.6	789.8	650.7	528.4	435.9	384.7	358.4	347.0	347.0
22.5°	1149.2	1076.5	906.0	724.7	574.2	456.9	379.1	340.2	325.0	317.4	317.1
25°	1151.2	1063.1	860.5	657.8	503.8	399.9	341.4	315.6	305.5	300.6	300.4
27.5°	1162.1	1056.7	818.4	591.2	442.2	357.2	316.1	297.9	291.3	288.2	288.2
30°	1181.9	1056.7	774.6	534.4	391.1	325.5	296.6	284.2	279.7	277.6	277.6
32.5°	1216.3	1062.5	732.3	478.3	350.3	300.6	280.4	272.0	268.5	267.4	267.4
35°	1275.6	1082.3	691.0	425.1	317.4	280.4	264.9	260.1	257.6	257.4	258.1
37.5°	1358.9	1122.6	652.2	385.8	294.1	263.9	252.0	248.3	246.7	248.0	249.0
40°	1463.7	1177.3	617.1	350.3	276.3	250.8	240.2	237.5	236.8	238.6	240.2
42.5°	1590.4	1251.3	588.2	324.7	262.7	239.6	230.0	226.9	226.2	228.2	230.3
45°	1727.5	1330.8	567.9	305.7	252.0	231.2	221.1	217.8	216.3	217.3	219.6
47.5°	1852.1	1406.0	559.8	292.3	241.9	224.1	213.2	209.2	206.7	206.2	207.9
50°	1957.2	1462.0	563.6	284.2	233.8	216.3	205.7	201.1	197.3	195.1	196.3
52.5°	2033.7	1497.2	567.1	280.7	227.5	207.7	197.3	193.0	188.0	184.2	184.2
55°	2089.2	1505.3	559.3	277.9	222.6	198.3	188.0	183.9	178.9	174.5	174.0
57.5°	2110.9	1482.5	530.1	273.8	219.4	189.5	178.0	175.0	170.8	165.6	165.4
60°	2081.5	1412.1	473.9	265.2	215.0	182.1	168.1	166.2	164.1	159.3	159.1
62.5°	1963.5	1257.6	401.2	247.7	206.4	174.3	159.1	160.0	160.3	157.1	156.5
65°	1749.4	1045.3	330.3	224.9	193.5	164.9	149.7	154.5	157.3	156.8	156.0
67.5°	1438.4	813.6	279.9	200.8	176.5	151.9	139.5	145.1	147.4	149.2	148.7
70°	1067.6	573.7	231.5	175.5	156.0	136.8	126.4	129.2	127.6	129.7	130.4
72.5°	595.3	344.2	188.7	150.2	134.8	119.1	111.7	111.2	107.9	107.9	107.9
74°	357.2	252.5	165.9	134.5	121.8	107.4	101.1	98.7	95.8	96.0	95.8
75°	287.2	217.1	152.2	124.1	112.7	100.5	94.2	91.2	88.9	88.9	88.7
77.5°	181.4	164.9	122.6	98.7	90.2	82.8	78.5	74.4	74.4	74.2	74.0
80°	137.0	131.2	95.5	74.7	69.1	63.5	60.8	59.1	59.1	59.8	59.5
82.5°	94.0	98.7	67.2	52.2	49.4	45.4	44.8	45.1	44.3	43.3	43.0
85°	68.7	74.2	45.4	32.9	30.2	27.6	29.6	30.6	29.3	27.1	26.1
87.5°	26.4	48.6	24.3	13.7	12.7	10.9	12.7	13.1	14.2	11.2	11.4
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)