

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: P320115

Luminaire Tested: **GAN-SA1B-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320115
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-SA1B-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA 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: 4179 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

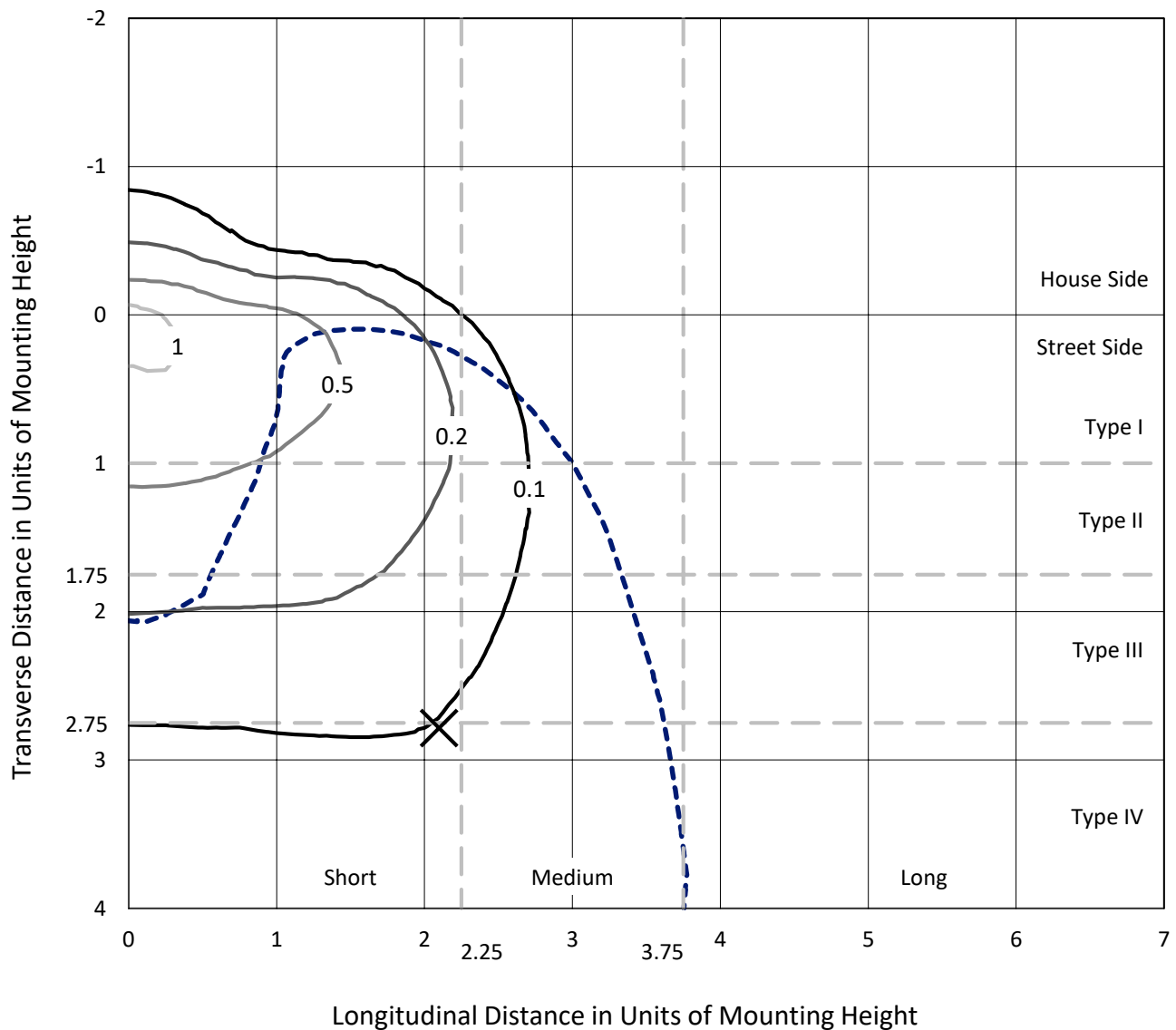
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320115
 CATALOG NUMBER: GAN-SA1B-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

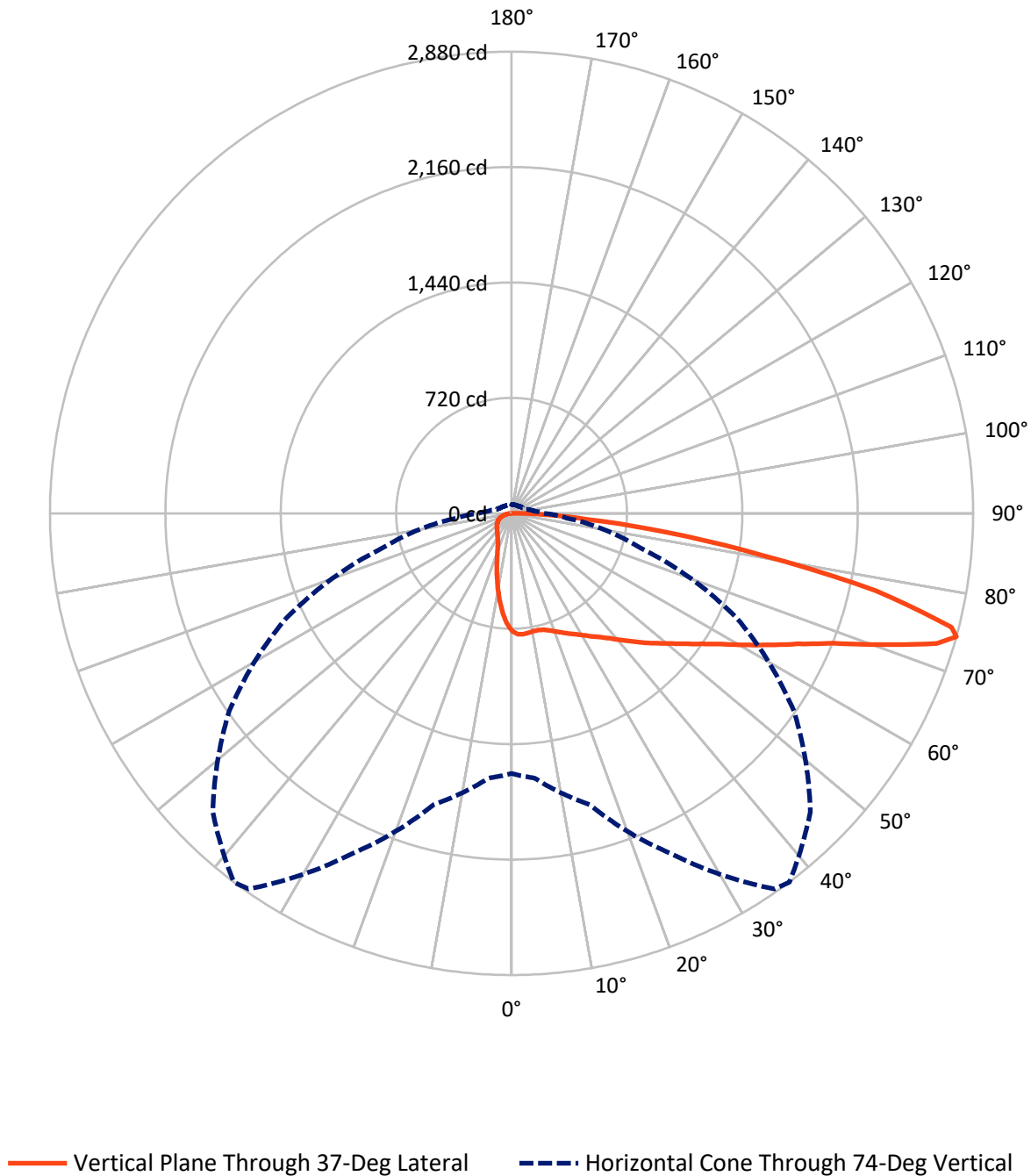
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P320115
CATALOG NUMBER: GAN-SA1B-827-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P320115

CATALOG NUMBER: GAN-SA1B-827-U-SL4

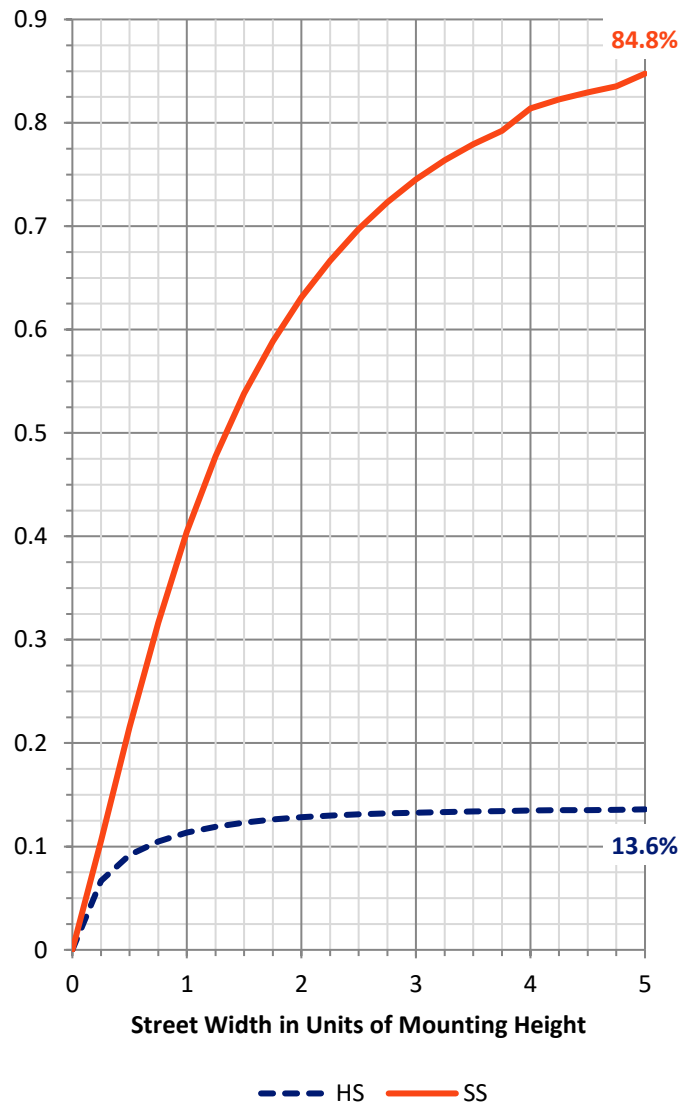
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	575.0	0.0	575.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	3604.0	0.0	3604.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	4179.0	0.0	4179.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	1.6
10°-20°	166.2	4.0
20°-30°	256.1	6.1
30°-40°	372.4	8.9
40°-50°	548.1	13.1
50°-60°	769.7	18.4
60°-70°	974.2	23.3
70°-80°	857.8	20.5
80°-90°	169.6	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°	4179.0	100.0
0°-180°	4179.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320115

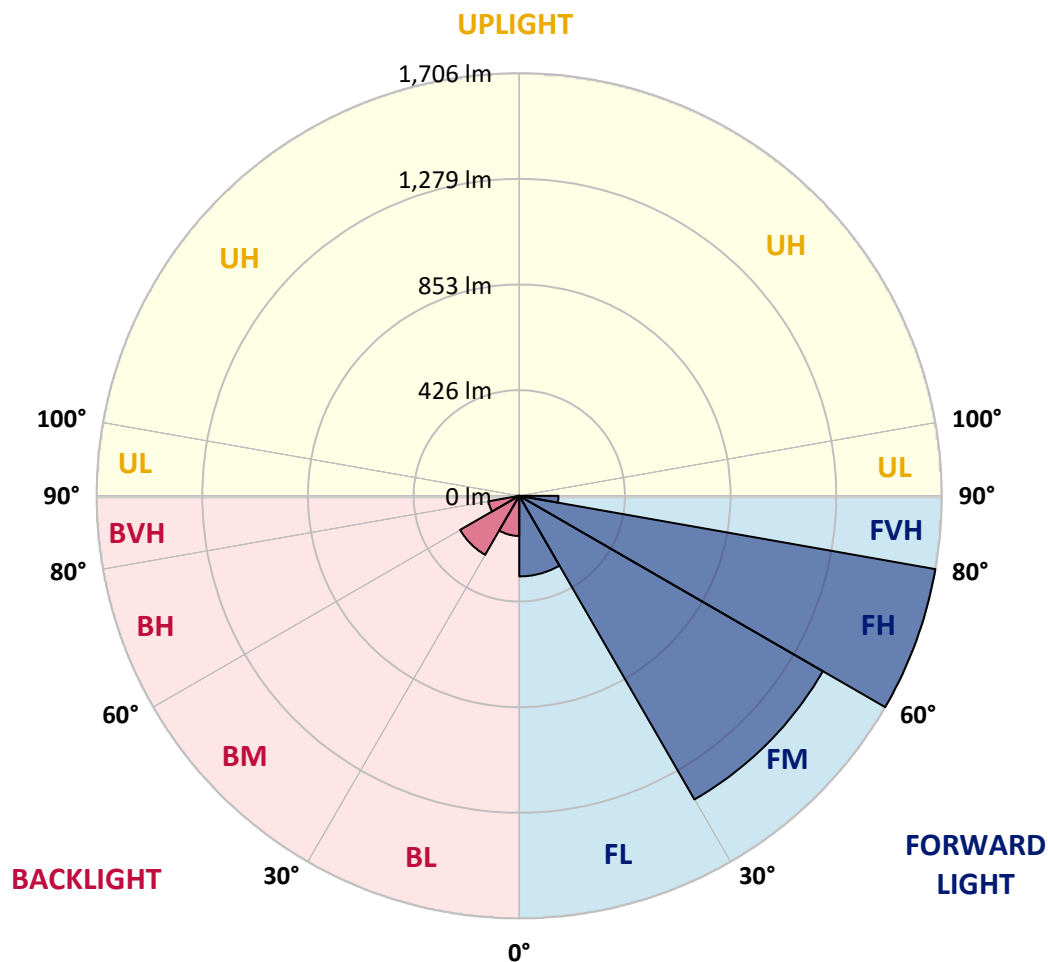
CATALOG NUMBER: GAN-SA1B-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	325.2	7.8			
FM	(30°-60°)	1415.0	33.9			
FH	(60°-80°)	1705.7	40.8			G1/1800
FVH	(80°-90°)	158.1	3.8			G2/225
BL	(0°-30°)	162.0	3.9	B1/500		
BM	(30°-60°)	275.2	6.6	B1/1000		
BH	(60°-80°)	126.4	3.0	B1/500		G1/500
BVH	(80°-90°)	11.5	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-G2

Type IV Short





REPORT NUMBER: P320115

CATALOG NUMBER: GAN-SA1B-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3
2.5°	761.5	761.6	761.5	760.3	757.5	755.2	753.3	750.5	744.3	739.6	732.5
5°	768.7	767.8	767.2	765.0	760.6	758.0	754.3	749.0	738.8	729.4	717.9
7.5°	765.3	764.3	763.0	760.3	755.3	753.1	748.0	741.0	728.8	716.5	700.0
10°	754.9	754.6	754.0	753.4	749.1	747.4	742.7	735.3	723.2	708.2	688.9
12.5°	743.2	744.0	746.3	749.4	747.5	746.6	743.7	738.7	726.3	710.1	686.9
15°	735.9	737.9	744.3	752.4	754.0	753.7	753.0	749.7	736.6	718.7	691.6
17.5°	733.4	736.8	748.8	762.2	766.9	768.0	768.3	762.7	748.1	729.1	696.4
20°	737.9	742.2	759.9	778.3	785.8	786.4	785.0	775.3	759.0	738.1	699.1
22.5°	751.8	755.6	777.7	798.4	807.0	807.9	803.9	789.2	770.5	748.7	702.8
25°	778.4	783.1	805.2	826.0	830.4	830.5	824.8	806.5	785.5	763.6	710.7
27.5°	813.2	817.9	837.7	858.1	855.7	854.4	846.6	828.3	805.1	784.0	724.8
30°	851.9	857.0	875.9	890.3	884.7	882.1	875.7	852.2	832.3	812.0	746.5
32.5°	891.9	896.6	913.1	923.0	915.9	914.7	905.2	883.7	867.8	854.7	781.5
35°	933.0	936.4	952.6	958.2	948.7	948.4	945.8	926.1	916.1	922.2	832.4
37.5°	974.9	975.8	989.7	990.0	987.2	988.3	991.1	978.8	981.6	1000.9	898.7
40°	1012.3	1014.7	1024.7	1027.8	1032.6	1036.8	1050.8	1042.7	1064.3	1098.4	981.1
42.5°	1040.0	1044.6	1060.6	1068.6	1084.3	1090.8	1110.5	1118.0	1161.6	1212.8	1079.2
45°	1063.4	1070.5	1096.2	1112.6	1139.2	1150.6	1178.8	1204.0	1271.6	1336.9	1182.4
47.5°	1088.7	1097.7	1130.0	1161.2	1197.4	1210.2	1261.6	1299.2	1388.9	1461.8	1279.7
50°	1126.0	1132.9	1164.4	1213.4	1258.6	1275.1	1346.2	1400.2	1508.1	1580.7	1364.0
52.5°	1177.9	1175.3	1201.9	1270.7	1331.3	1351.6	1436.6	1507.7	1629.0	1688.3	1435.3
55°	1230.2	1225.8	1244.5	1330.6	1416.1	1437.5	1536.1	1615.6	1743.9	1785.2	1489.9
57.5°	1288.3	1280.0	1295.7	1398.2	1512.7	1538.2	1647.5	1730.3	1857.0	1863.5	1524.6
60°	1348.3	1336.9	1354.6	1481.9	1635.3	1665.3	1778.0	1842.1	1963.6	1926.2	1535.8
62.5°	1400.7	1392.7	1419.9	1575.4	1773.5	1806.5	1906.0	1961.1	2068.7	1952.2	1495.5
65°	1446.4	1447.8	1494.9	1680.5	1927.7	1962.8	2052.9	2107.7	2151.4	1936.8	1401.1
67.5°	1501.1	1508.6	1588.9	1818.9	2121.7	2160.2	2266.7	2267.6	2197.6	1846.1	1215.3
70°	1580.7	1596.2	1718.3	2010.8	2397.5	2450.5	2532.7	2361.5	2132.7	1600.3	956.2
72.5°	1651.4	1680.2	1856.0	2230.5	2733.8	2773.9	2688.3	2307.3	1861.4	1199.3	595.7
74°	1622.6	1658.4	1881.0	2338.7	2860.4	2879.6	2635.7	2149.2	1552.0	830.5	346.2
75°	1560.8	1599.7	1844.5	2337.6	2844.3	2833.6	2508.8	1968.6	1278.2	566.4	230.4
77.5°	1259.6	1300.7	1554.2	2003.5	2332.2	2322.0	1927.2	1320.6	559.8	185.8	117.0
80°	732.3	763.7	964.8	1272.3	1572.6	1591.0	1267.4	653.4	220.2	104.4	79.3
82.5°	325.3	347.0	466.1	649.5	949.0	972.7	663.8	342.4	136.0	63.4	47.7
85°	213.4	229.5	282.9	309.3	451.9	468.1	324.9	266.6	89.8	34.9	35.0
87.5°	153.5	169.0	210.2	183.6	207.4	196.4	176.8	246.7	36.1	19.9	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320115

CATALOG NUMBER: GAN-SA1B-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3
2.5°	729.4	727.0	721.8	711.7	706.1	701.4	693.6	689.1	687.0	686.9	687.7
5°	711.3	705.9	692.2	675.4	662.0	649.8	634.6	625.5	619.0	615.2	616.2
7.5°	690.2	681.7	660.2	633.4	611.9	588.2	564.8	550.8	540.0	531.9	533.3
10°	675.8	664.0	632.7	594.1	558.4	523.9	491.7	472.4	457.1	445.3	446.2
12.5°	671.0	655.1	611.6	560.1	509.9	462.8	420.7	391.1	375.4	362.0	363.0
15°	671.7	650.4	594.0	529.5	466.3	407.0	355.9	321.4	300.0	290.7	290.9
17.5°	672.3	644.9	575.4	496.7	423.2	354.9	299.4	264.4	244.2	235.7	235.8
20°	670.4	636.1	552.5	459.0	378.2	307.1	253.3	223.6	208.3	201.7	201.7
22.5°	667.9	625.6	526.6	421.2	333.7	265.6	220.4	197.7	188.9	184.4	184.3
25°	669.1	617.8	500.1	382.3	292.8	232.4	198.4	183.4	177.5	174.7	174.6
27.5°	675.4	614.1	475.6	343.6	257.0	207.6	183.7	173.1	169.3	167.5	167.5
30°	686.9	614.1	450.2	310.6	227.3	189.2	172.4	165.2	162.5	161.3	161.3
32.5°	706.9	617.5	425.6	277.9	203.6	174.7	163.0	158.1	156.0	155.4	155.4
35°	741.3	629.0	401.6	247.0	184.4	163.0	154.0	151.2	149.7	149.6	150.0
37.5°	789.8	652.4	379.1	224.2	170.9	153.4	146.5	144.3	143.4	144.1	144.7
40°	850.7	684.2	358.6	203.6	160.6	145.7	139.6	138.1	137.6	138.7	139.6
42.5°	924.3	727.2	341.8	188.7	152.7	139.3	133.7	131.9	131.5	132.6	133.8
45°	1003.9	773.4	330.0	177.7	146.5	134.4	128.5	126.6	125.7	126.3	127.6
47.5°	1076.4	817.1	325.3	169.9	140.6	130.3	123.9	121.6	120.1	119.8	120.9
50°	1137.5	849.7	327.5	165.2	135.9	125.7	119.5	116.9	114.7	113.3	114.1
52.5°	1181.9	870.1	329.6	163.1	132.2	120.7	114.7	112.2	109.2	107.0	107.0
55°	1214.2	874.8	325.0	161.5	129.4	115.3	109.2	106.9	103.9	101.4	101.1
57.5°	1226.8	861.6	308.1	159.1	127.5	110.1	103.5	101.7	99.2	96.3	96.1
60°	1209.7	820.7	275.4	154.1	125.0	105.8	97.7	96.6	95.4	92.6	92.4
62.5°	1141.1	730.9	233.2	144.0	120.0	101.3	92.4	93.0	93.2	91.3	91.0
65°	1016.8	607.5	192.0	130.7	112.5	95.8	87.0	89.8	91.4	91.1	90.7
67.5°	836.0	472.8	162.7	116.7	102.6	88.3	81.1	84.3	85.7	86.7	86.4
70°	620.5	333.4	134.5	102.0	90.7	79.5	73.5	75.1	74.2	75.4	75.8
72.5°	345.9	200.1	109.7	87.3	78.3	69.2	64.9	64.6	62.7	62.7	62.7
74°	207.6	146.8	96.4	78.2	70.8	62.4	58.7	57.4	55.6	55.8	55.6
75°	166.9	126.2	88.5	72.1	65.5	58.4	54.8	53.0	51.7	51.7	51.5
77.5°	105.4	95.8	71.2	57.4	52.4	48.1	45.6	43.3	43.3	43.1	43.0
80°	79.6	76.3	55.5	43.4	40.2	36.9	35.3	34.3	34.3	34.7	34.6
82.5°	54.6	57.4	39.0	30.3	28.7	26.3	26.1	26.2	25.8	25.2	25.0
85°	39.9	43.1	26.3	19.1	17.5	16.0	17.2	17.8	17.1	15.8	15.2
87.5°	15.3	28.3	14.1	7.9	7.4	6.3	7.4	7.7	8.2	6.5	6.6
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)