

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: P322155

Luminaire Tested: **GAN-SA1B-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3648 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

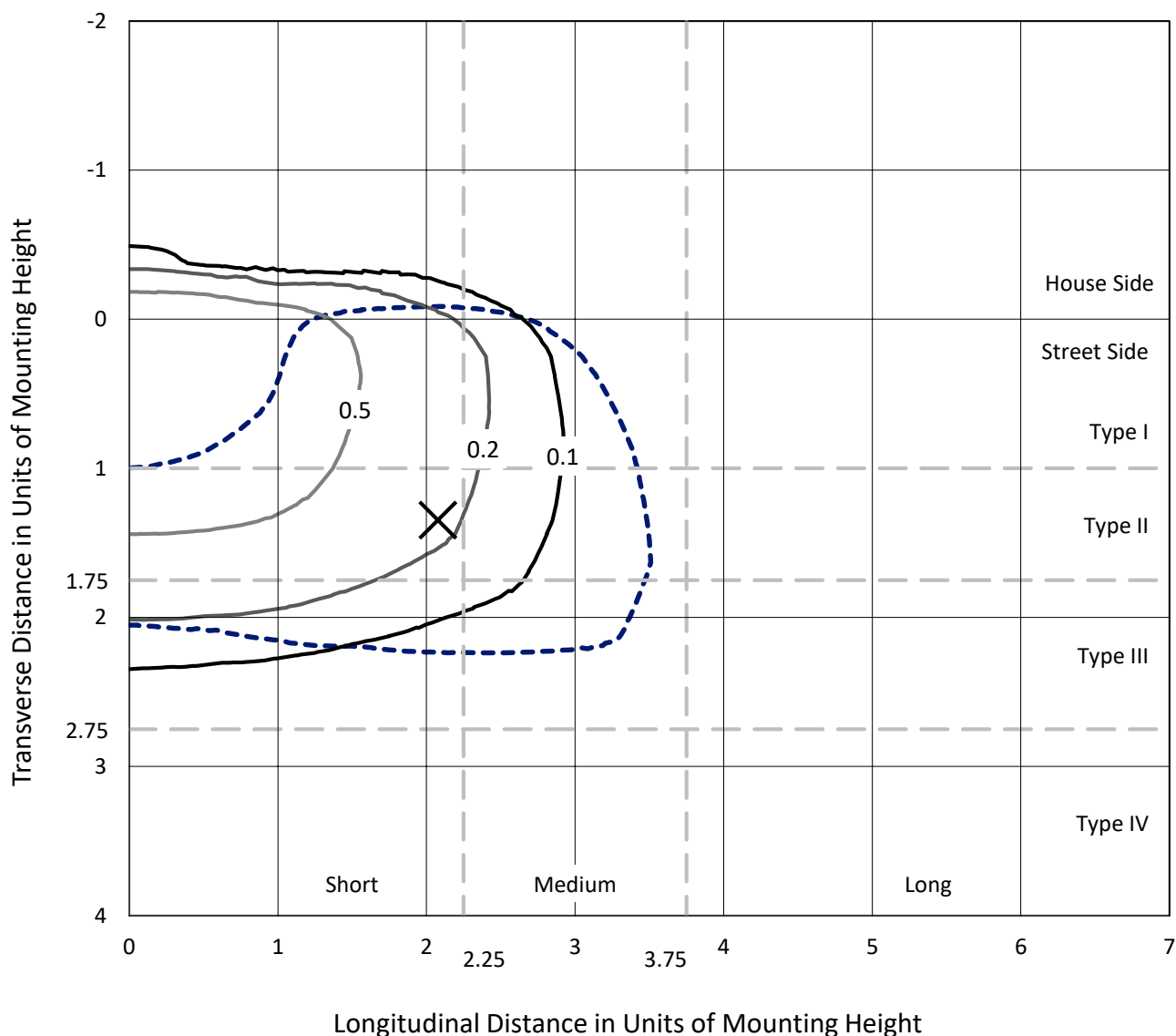
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322155
 CATALOG NUMBER: GAN-SA1B-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

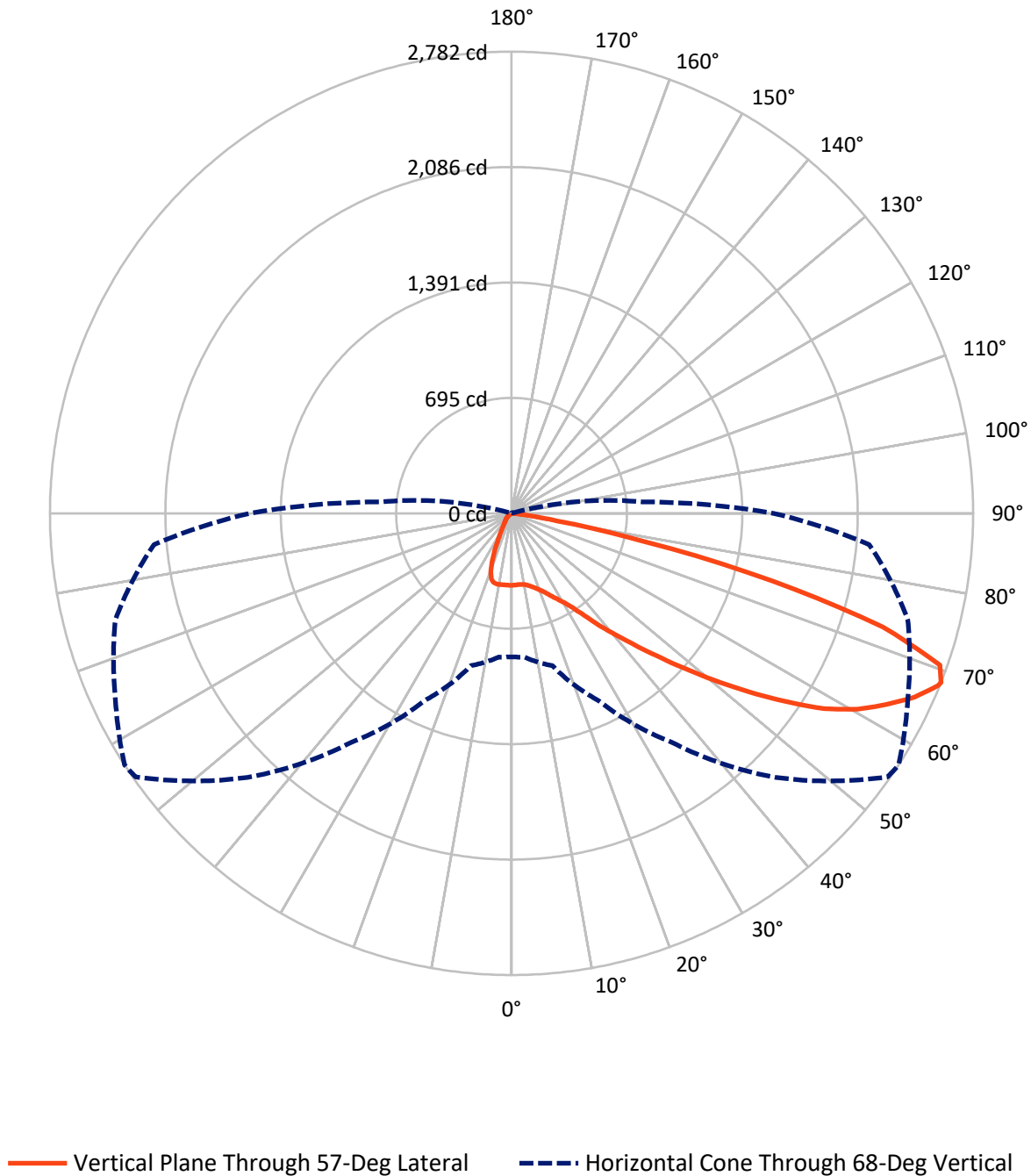
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

REPORT NUMBER: P322155
CATALOG NUMBER: GAN-SA1B-727-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322155

CATALOG NUMBER: GAN-SA1B-727-U-T3-HSS

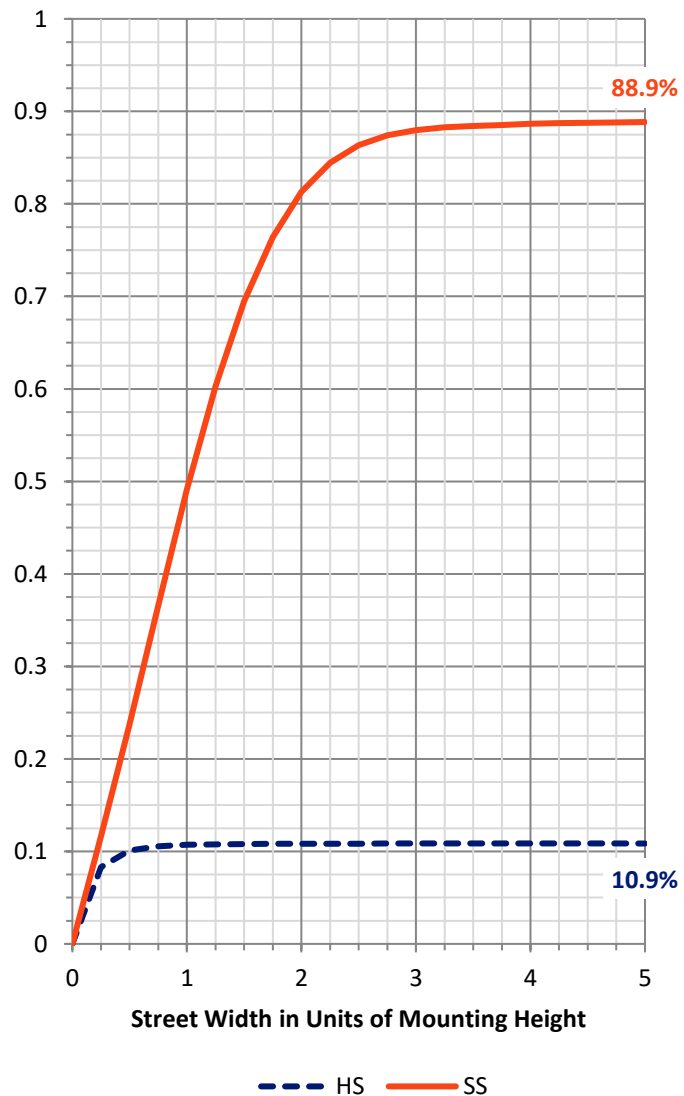
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	400.0	0.0	400.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	3248.0	0.0	3248.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	3648.0	0.0	3648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	1.1
10°-20°	112.4	3.1
20°-30°	193.9	5.3
30°-40°	334.7	9.2
40°-50°	572.5	15.7
50°-60°	916.0	25.1
60°-70°	1058.3	29.0
70°-80°	404.4	11.1
80°-90°	15.2	0.4
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°	3648.0	100.0
0°-180°	3648.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322155

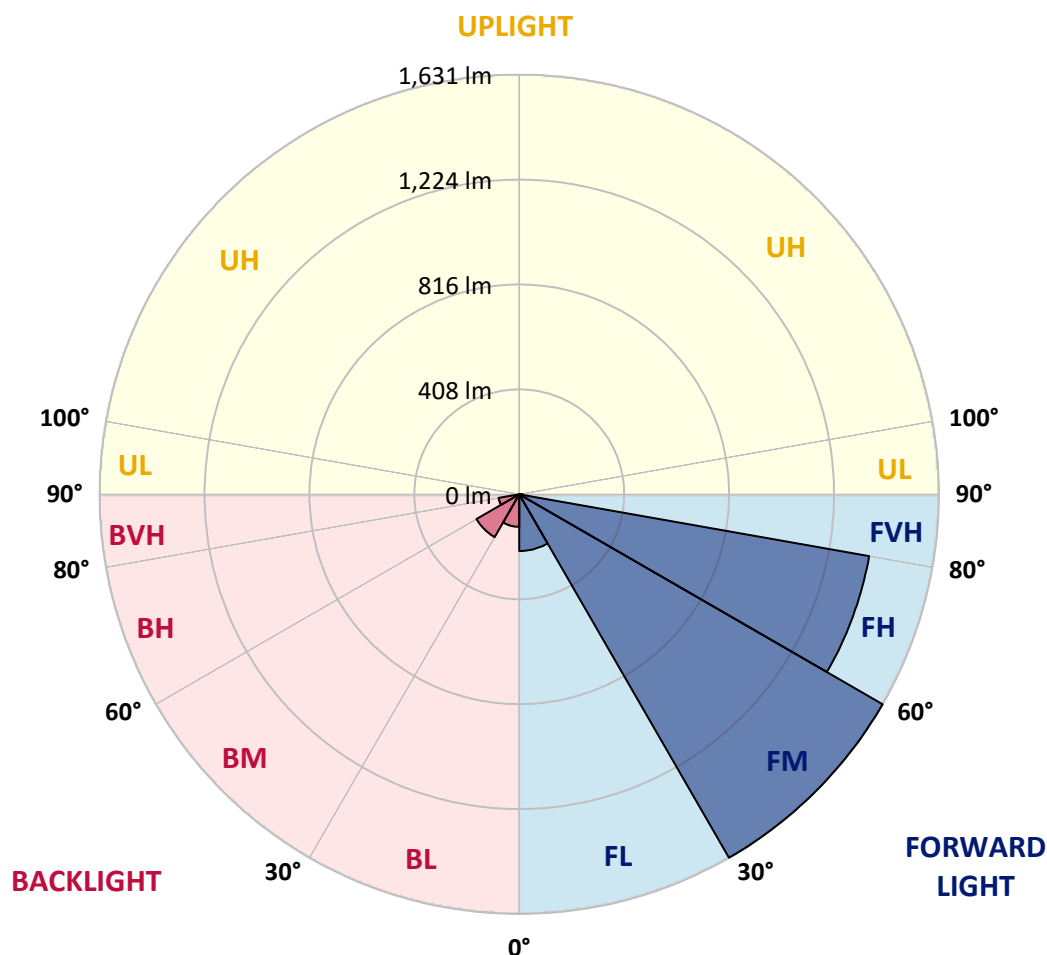
CATALOG NUMBER: GAN-SA1B-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.5	6.0			
FM	(30°-60°)	1631.4	44.7			
FH	(60°-80°)	1381.2	37.9			G1/1800
FVH	(80°-90°)	14.9	0.4			G1/100
BL	(0°-30°)	126.4	3.5	B1/500		
BM	(30°-60°)	191.9	5.3	B0/220		
BH	(60°-80°)	81.5	2.2	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



REPORT NUMBER: P322155

CATALOG NUMBER: GAN-SA1B-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	433.5	433.5	433.5	433.5	433.5	433.5	433.5	433.5	433.5	433.5	433.5
2.5°	423.3	425.2	426.6	427.4	428.5	430.7	431.4	432.4	433.0	433.0	434.2
5°	406.6	408.6	411.6	414.0	418.8	425.0	429.5	431.2	434.3	437.1	438.7
7.5°	391.0	393.5	396.9	402.6	410.9	420.9	430.2	432.6	438.7	444.5	447.5
10°	381.0	382.9	387.4	395.5	406.4	420.4	433.5	436.4	446.8	456.6	462.1
12.5°	377.6	379.3	384.0	393.1	406.6	423.0	441.1	445.4	460.6	474.9	482.6
15°	382.6	382.9	387.9	396.6	409.8	429.3	453.7	458.8	478.0	496.6	506.3
17.5°	401.9	400.4	402.9	406.7	417.3	437.8	466.9	474.7	500.2	522.1	531.3
20°	450.2	450.2	444.3	434.0	434.2	450.9	484.9	493.7	524.9	550.3	558.5
22.5°	532.8	531.3	519.6	494.2	470.9	473.5	506.8	518.2	554.6	581.7	584.4
25°	632.2	630.3	612.2	576.5	536.1	510.1	536.5	549.6	589.9	613.9	608.2
27.5°	737.4	735.9	717.9	673.6	616.2	568.4	571.8	584.2	626.0	649.6	631.5
30°	839.4	839.9	822.1	776.6	711.5	642.7	616.7	623.9	661.0	685.0	659.1
32.5°	936.3	937.0	921.6	870.8	810.0	729.1	678.8	676.9	701.7	725.3	695.7
35°	1022.7	1024.4	1013.9	974.4	910.1	825.4	759.3	754.8	759.5	786.2	751.7
37.5°	1106.0	1107.1	1099.1	1065.8	1012.0	931.1	861.1	854.7	844.7	865.2	825.7
40°	1197.3	1194.7	1185.6	1155.4	1109.1	1047.9	970.5	959.4	942.0	960.3	923.0
42.5°	1282.2	1279.2	1280.8	1246.6	1207.6	1168.0	1097.9	1079.0	1068.8	1089.8	1042.4
45°	1388.2	1386.7	1391.9	1362.2	1330.6	1301.8	1244.0	1223.3	1218.8	1243.5	1186.8
47.5°	1492.9	1496.7	1512.8	1500.2	1487.4	1462.1	1398.8	1389.4	1392.2	1422.0	1339.1
50°	1580.2	1584.7	1628.7	1643.2	1661.6	1646.8	1583.3	1577.6	1588.5	1615.4	1502.9
52.5°	1643.4	1652.5	1707.2	1773.9	1841.2	1851.2	1787.9	1782.7	1797.4	1801.5	1629.6
55°	1687.2	1695.3	1757.2	1879.3	2016.3	2059.4	2020.1	2000.1	1997.3	1956.4	1762.7
57.5°	1694.9	1694.1	1783.1	1947.5	2153.6	2264.9	2240.0	2220.3	2163.8	2099.6	1915.4
60°	1651.1	1656.1	1759.4	1971.1	2239.8	2420.3	2422.2	2396.6	2308.5	2238.8	2063.4
62.5°	1516.2	1536.6	1640.9	1909.2	2238.8	2482.9	2555.7	2536.2	2430.8	2352.8	2213.4
65°	1297.5	1304.7	1404.3	1697.0	2087.5	2456.7	2675.9	2668.7	2541.0	2463.6	2290.6
67.5°	947.5	931.8	1036.3	1336.3	1767.4	2303.8	2762.2	2771.3	2626.1	2486.3	2208.4
68°	864.7	869.4	950.8	1247.1	1683.5	2249.8	2767.8	2781.8	2634.5	2471.5	2163.6
70°	515.4	524.4	597.0	858.7	1280.8	1944.4	2706.4	2738.3	2584.1	2318.5	1871.4
72.5°	131.6	142.3	211.0	384.3	731.5	1370.0	2284.7	2338.7	2243.6	1880.9	1263.3
75°	54.2	56.9	75.4	126.6	272.5	617.2	1505.9	1621.4	1555.4	1126.0	571.0
77.5°	37.4	39.3	48.5	70.2	118.0	209.2	738.3	821.8	740.3	384.3	124.5
80°	26.9	28.5	34.7	46.7	67.8	74.7	240.6	278.2	221.0	84.3	30.9
82.5°	16.0	17.2	25.9	33.3	41.2	35.7	59.9	68.0	64.0	41.9	13.8
85°	7.9	9.3	17.4	23.8	22.3	15.0	18.3	20.4	25.2	25.5	7.4
87.5°	0.5	1.0	10.2	14.3	6.2	3.4	5.3	6.6	9.0	12.6	3.1
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: P322155

CATALOG NUMBER: GAN-SA1B-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	433.5	433.5	433.5	433.5	433.5	433.5	433.5	433.5	433.5	433.5	433.5
2.5°	434.7	434.9	433.7	433.1	433.5	431.4	430.5	430.9	430.9	431.4	430.5
5°	439.0	439.0	436.9	434.2	432.6	428.6	426.1	425.4	424.9	424.5	423.8
7.5°	448.3	447.3	443.7	437.6	432.4	423.8	417.3	413.8	412.1	411.4	410.9
10°	463.3	461.4	455.4	444.2	432.3	416.9	402.6	392.4	384.0	380.5	378.5
12.5°	483.5	480.7	470.6	451.9	431.1	402.8	371.7	341.9	314.1	302.7	297.0
15°	506.8	502.8	486.8	458.5	424.0	370.9	303.4	251.2	212.7	198.2	192.0
17.5°	530.4	525.2	500.9	462.6	402.8	304.8	212.9	160.8	135.1	128.2	125.7
20°	554.2	546.6	513.2	459.5	354.8	219.8	140.4	117.5	110.1	108.0	107.3
22.5°	576.8	565.1	524.2	447.5	281.0	147.5	111.1	103.8	101.4	100.2	99.9
25°	596.5	580.1	533.9	410.2	198.9	111.4	100.0	97.6	94.5	92.3	92.5
27.5°	614.9	595.1	539.7	348.8	132.6	95.2	92.6	89.4	83.7	80.4	80.4
30°	637.2	615.1	544.0	268.4	97.6	84.2	82.1	77.1	69.3	65.0	65.0
32.5°	670.7	645.5	541.3	188.4	80.9	74.0	69.2	62.3	53.8	49.7	49.5
35°	721.9	692.4	521.6	123.5	71.4	64.3	56.6	48.1	40.7	37.3	37.1
37.5°	790.9	755.2	477.5	88.3	64.0	55.4	46.1	36.7	31.2	29.0	28.8
40°	880.4	828.1	414.3	71.6	57.1	46.7	35.5	28.5	24.7	22.9	23.1
42.5°	987.9	906.3	338.6	61.8	50.4	38.5	27.8	22.4	20.0	18.8	18.5
45°	1107.2	983.4	259.3	55.0	43.6	31.0	21.7	17.8	15.9	15.2	15.2
47.5°	1238.5	1058.4	189.7	49.2	36.4	24.0	17.4	14.5	12.9	12.4	12.2
50°	1357.7	1110.5	136.8	43.0	29.8	19.0	14.1	12.1	11.0	10.3	10.3
52.5°	1457.1	1126.9	100.7	36.2	24.1	15.2	11.7	10.3	9.3	8.8	8.8
55°	1544.5	1120.2	74.9	29.8	19.5	12.4	10.0	8.8	7.9	7.4	7.4
57.5°	1628.3	1098.4	55.9	24.3	15.7	10.0	8.5	7.4	6.6	6.2	6.2
60°	1696.8	1062.2	41.6	19.7	12.6	8.1	7.1	6.0	5.3	4.8	4.8
62.5°	1752.4	1022.2	30.5	16.2	10.0	6.4	5.5	5.0	4.0	3.4	3.4
65°	1752.7	955.8	22.9	13.5	7.8	5.0	4.1	4.0	2.6	2.1	1.9
67.5°	1625.9	824.0	17.6	11.6	6.0	3.8	3.1	3.3	1.4	0.9	0.7
68°	1579.9	790.5	16.6	11.4	5.7	3.6	2.9	3.3	1.2	0.7	0.5
70°	1332.0	628.9	13.3	11.0	5.0	2.8	2.4	3.3	1.0	0.5	0.3
72.5°	852.0	365.0	9.8	8.8	3.8	2.1	1.6	2.9	1.0	0.3	0.2
75°	362.6	113.2	6.7	6.2	2.2	1.6	1.0	1.9	0.7	0.2	0.0
77.5°	76.4	25.5	4.0	3.8	1.6	1.0	0.7	0.5	0.2	0.0	0.0
80°	19.7	7.4	2.1	1.9	0.9	0.5	0.3	0.0	0.0	0.0	0.0
82.5°	6.2	2.9	1.2	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	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)