

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: P317665

Luminaire Tested: **GAN-SA1A-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4171 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

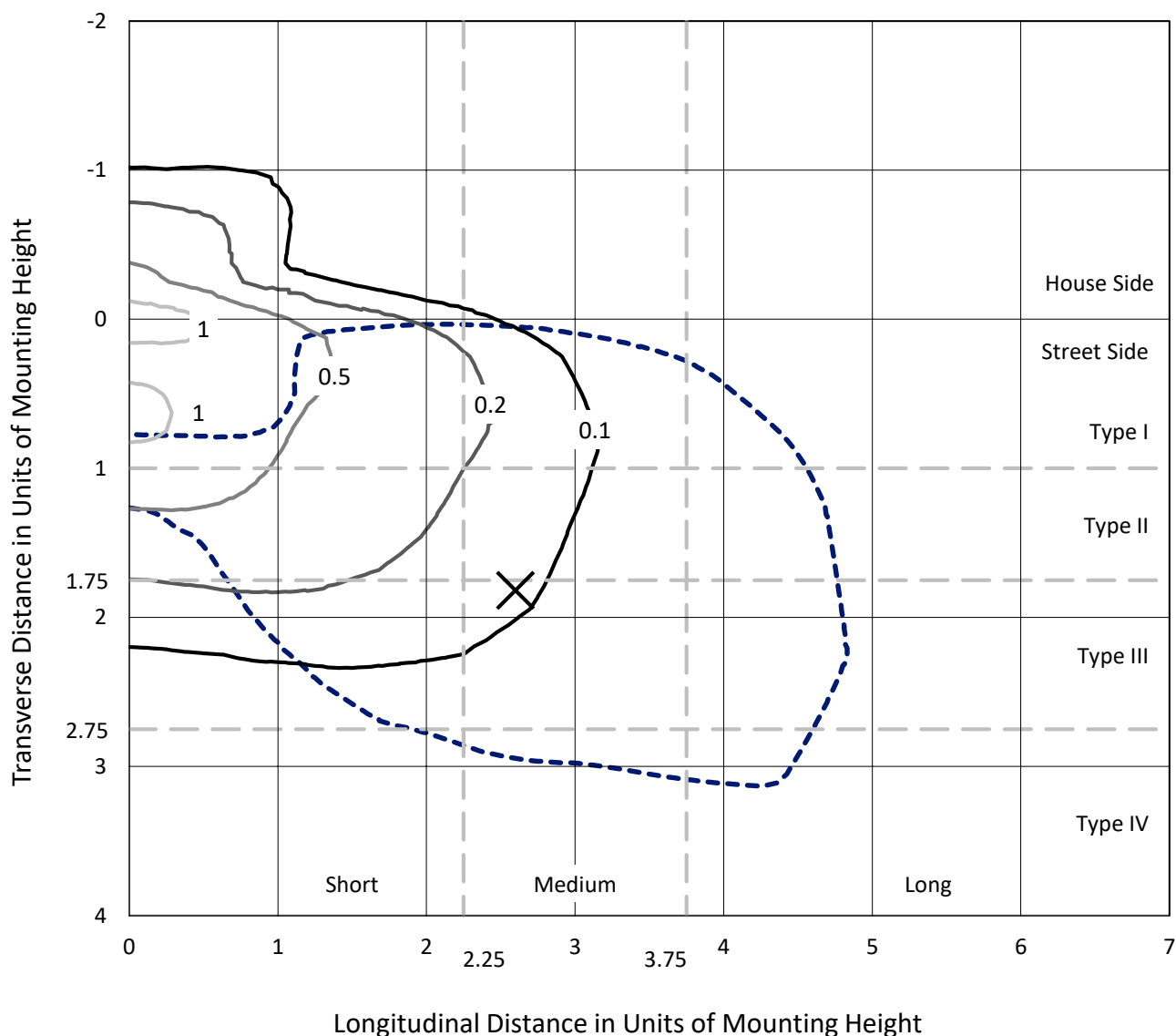
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

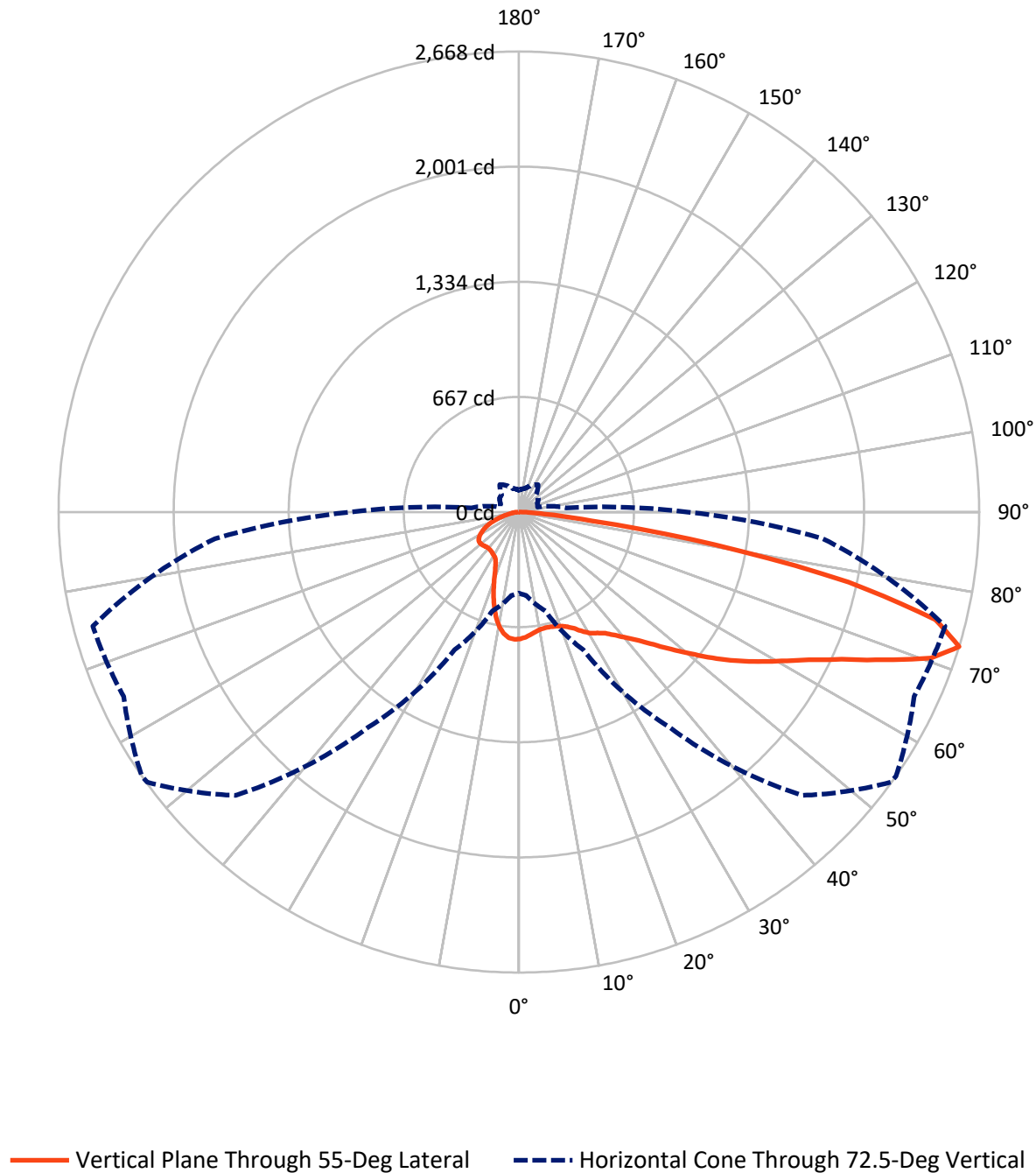
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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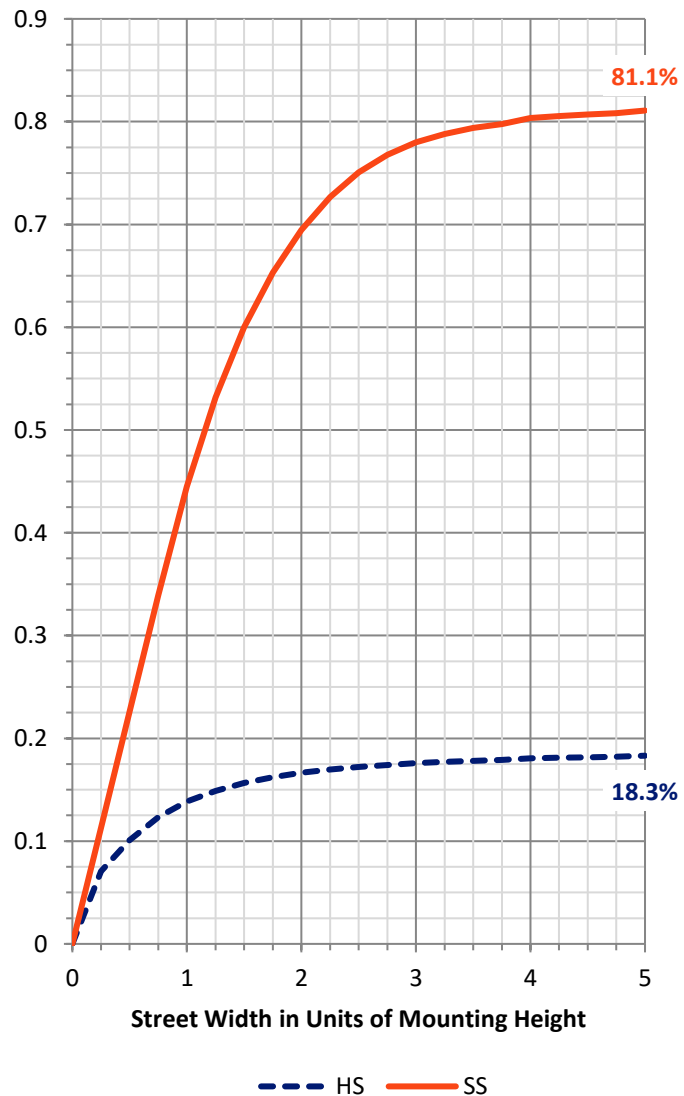
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	775.3	0.0	775.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3395.7	0.0	3395.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	4171.0	0.0	4171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.6
10°-20°	177.2	4.2
20°-30°	292.2	7.0
30°-40°	432.3	10.4
40°-50°	603.3	14.5
50°-60°	785.6	18.8
60°-70°	965.4	23.1
70°-80°	756.8	18.1
80°-90°	91.6	2.2
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°	4171.0	100.0
0°-180°	4171.0	100.0

Coefficient of Utilization



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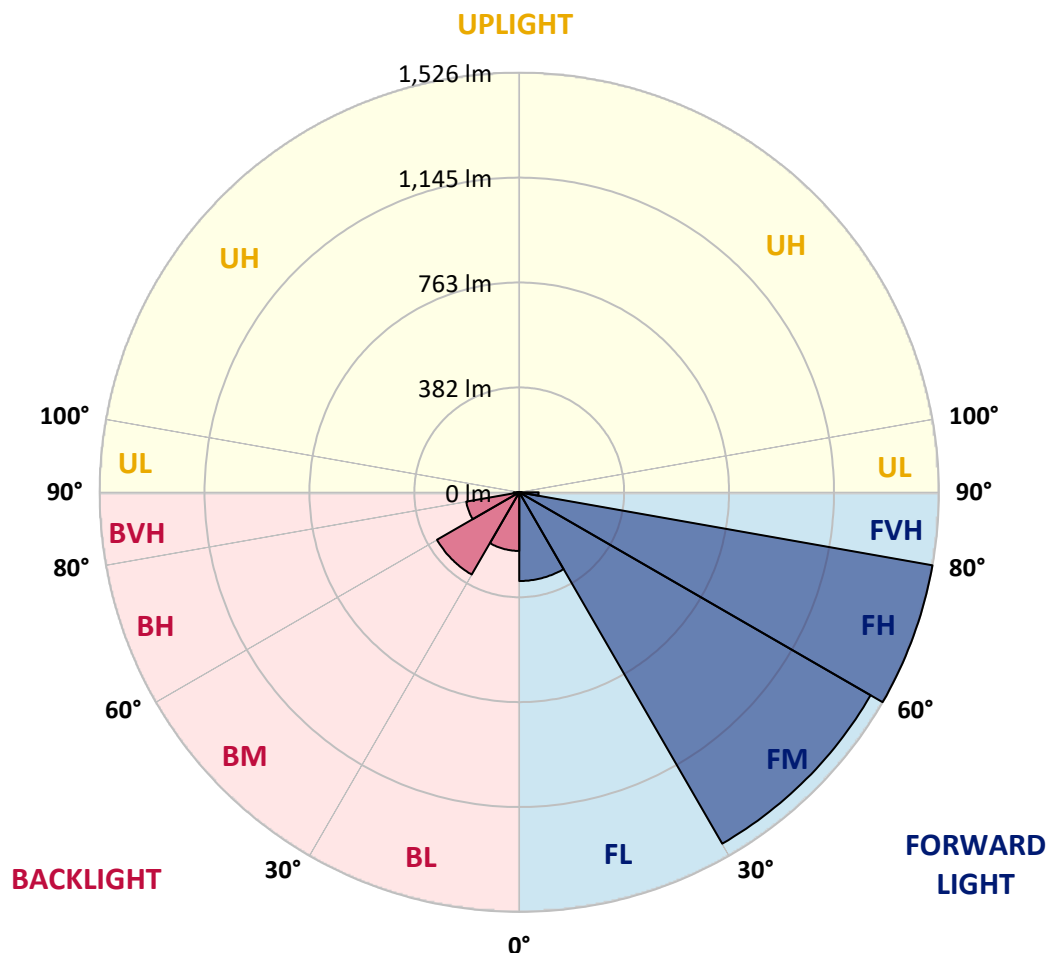
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.7	7.7			
FM	(30°-60°)	1475.8	35.4			
FH	(60°-80°)	1526.4	36.6			G1/1800
FVH	(80°-90°)	70.8	1.7			G1/100
BL	(0°-30°)	213.3	5.1	B1/500		
BM	(30°-60°)	345.4	8.3	B1/1000		
BH	(60°-80°)	195.8	4.7	B1/500		G1/500
BVH	(80°-90°)	20.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7
2.5°	711.7	710.0	712.1	715.1	718.3	722.7	725.2	726.4	730.7	732.4	736.1
5°	678.8	677.9	681.4	686.5	693.7	703.8	712.0	713.6	725.1	733.3	740.7
7.5°	654.8	654.8	658.9	665.0	673.0	686.6	698.2	700.3	719.9	737.5	751.3
10°	635.8	636.5	641.3	648.5	657.9	672.4	687.8	690.2	718.5	747.4	769.3
12.5°	623.1	624.8	629.2	635.6	647.3	665.0	684.4	687.6	721.4	761.5	791.0
15°	631.1	634.0	634.4	637.1	643.5	662.7	686.4	689.7	727.8	775.8	815.7
17.5°	666.4	667.3	663.0	657.3	654.2	666.5	692.3	695.8	735.4	790.1	839.4
20°	719.9	719.3	709.9	694.7	678.9	680.9	702.0	705.7	745.7	802.6	863.0
22.5°	787.5	785.5	771.0	743.0	716.1	704.8	719.1	722.2	761.2	820.5	888.4
25°	869.5	865.1	846.0	808.4	768.8	739.8	744.7	747.6	783.7	840.5	911.6
27.5°	956.0	951.6	927.3	881.8	829.1	783.9	780.1	782.6	809.4	855.3	928.8
30°	1046.5	1041.8	1019.5	968.5	893.0	829.5	813.0	814.0	827.4	863.3	942.9
32.5°	1137.3	1133.0	1108.0	1048.9	962.5	878.5	836.8	835.6	838.2	871.6	958.8
35°	1229.5	1231.1	1202.0	1136.5	1039.4	933.0	865.0	862.3	856.4	888.7	981.4
37.5°	1328.1	1326.9	1289.2	1220.7	1119.9	992.2	905.4	905.0	884.6	920.9	1016.7
40°	1394.0	1394.7	1371.7	1306.9	1201.1	1057.7	957.3	956.3	929.5	969.3	1063.1
42.5°	1419.8	1424.4	1430.4	1389.2	1286.2	1133.7	1019.1	1017.7	992.2	1038.6	1117.6
45°	1421.6	1430.9	1467.5	1462.3	1372.5	1220.6	1098.2	1094.2	1075.9	1130.7	1182.7
47.5°	1405.8	1415.4	1476.3	1505.9	1449.5	1312.3	1190.6	1187.5	1171.7	1245.9	1253.1
50°	1371.3	1380.5	1458.2	1527.1	1512.9	1400.5	1297.1	1288.9	1280.5	1379.1	1333.7
52.5°	1306.7	1324.3	1434.2	1532.2	1550.8	1478.8	1409.1	1403.7	1408.4	1519.5	1414.4
55°	1153.5	1173.2	1372.0	1528.0	1578.8	1544.6	1521.1	1520.8	1544.9	1666.9	1501.1
57.5°	1067.7	1081.7	1245.5	1520.8	1612.1	1610.0	1632.0	1634.6	1681.5	1827.4	1591.8
60°	1019.3	1033.9	1181.4	1494.2	1663.7	1694.5	1745.1	1750.4	1820.4	2005.0	1701.0
62.5°	975.2	991.2	1141.7	1439.9	1724.4	1815.4	1880.6	1885.4	1967.5	2187.6	1806.5
65°	899.8	918.0	1083.5	1404.3	1779.6	1973.0	2052.9	2056.1	2136.4	2378.9	1887.2
67.5°	793.3	809.9	973.8	1325.5	1820.4	2164.5	2282.0	2283.8	2303.9	2514.0	1928.5
70°	668.9	675.2	817.4	1163.0	1772.1	2343.5	2533.0	2533.4	2456.7	2600.5	1921.7
72.5°	470.0	484.9	593.4	880.4	1522.9	2321.7	2663.3	2668.1	2527.7	2556.8	1768.2
75°	288.2	304.0	372.2	533.5	966.2	1825.9	2460.7	2494.0	2394.5	2279.7	1444.4
77.5°	192.7	198.6	242.9	311.1	437.7	1050.5	1891.9	1954.4	1989.2	1662.5	923.7
80°	107.5	118.8	161.0	193.3	194.7	417.4	1134.4	1149.0	1106.8	662.0	285.0
82.5°	56.9	63.1	107.5	113.5	106.2	139.8	422.8	423.2	353.6	177.5	84.7
85°	44.1	49.3	73.7	69.3	54.2	62.0	139.5	147.1	120.3	72.7	27.6
87.5°	22.0	27.3	50.0	44.0	21.3	17.8	49.9	53.3	47.5	28.5	10.0
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°	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7	735.7
2.5°	737.5	738.8	740.3	738.6	738.1	735.8	732.0	731.2	729.2	729.3	730.5
5°	744.0	746.1	745.3	738.8	731.0	720.2	708.9	699.3	693.0	692.6	692.1
7.5°	756.4	757.8	751.2	732.7	711.0	685.9	662.3	641.6	629.0	625.9	625.2
10°	775.8	775.5	757.4	720.2	676.9	632.1	594.1	565.4	548.6	543.7	542.4
12.5°	797.5	794.3	759.5	697.4	628.7	566.6	518.4	486.5	469.0	463.4	461.9
15°	819.9	811.9	754.3	663.3	569.6	496.0	445.5	415.9	406.4	403.3	402.8
17.5°	840.8	825.3	739.3	617.1	502.1	425.7	386.3	374.5	376.7	380.8	380.9
20°	861.2	834.3	715.4	558.7	431.0	367.8	354.5	363.2	373.9	382.2	383.3
22.5°	881.3	840.6	684.5	491.4	367.3	335.3	344.7	360.7	372.9	381.9	383.5
25°	898.3	842.2	642.0	419.5	323.0	323.0	340.1	355.2	367.3	376.1	377.7
27.5°	904.4	831.8	582.0	353.0	300.8	317.4	333.6	346.1	356.4	365.9	367.6
30°	906.8	812.5	512.7	299.7	291.6	311.3	324.9	335.6	345.3	354.2	355.7
32.5°	907.3	789.2	439.1	269.4	285.3	305.0	314.0	323.5	333.9	337.4	338.0
35°	909.9	761.7	361.6	253.9	279.4	299.1	306.3	313.0	296.1	297.4	298.5
37.5°	917.7	734.5	296.8	245.1	275.6	296.0	304.6	280.1	266.8	263.7	263.3
40°	932.2	705.5	248.8	238.1	274.2	297.5	293.7	261.5	238.7	221.6	219.1
42.5°	952.3	674.3	218.1	233.4	275.1	305.0	278.7	243.6	205.7	194.7	193.3
45°	975.0	641.4	201.5	230.2	278.5	310.8	275.6	219.8	190.3	182.0	181.3
47.5°	997.0	601.3	192.9	228.8	283.2	306.1	262.5	212.4	183.0	178.6	179.1
50°	1022.2	565.1	187.7	227.2	287.3	303.2	247.7	208.6	180.2	185.5	191.2
52.5°	1043.5	527.6	183.0	224.1	288.8	298.0	243.9	209.3	180.2	190.5	195.8
55°	1068.7	499.3	177.6	217.7	285.8	283.2	241.2	213.6	182.3	175.8	176.4
57.5°	1101.3	490.0	171.7	207.5	276.0	261.6	239.9	217.7	181.0	176.9	178.4
60°	1146.3	499.8	169.3	194.3	260.6	244.7	240.1	215.5	172.2	165.1	165.3
62.5°	1189.3	510.8	169.2	186.0	241.7	229.6	236.8	208.6	167.6	163.6	165.1
65°	1203.4	499.7	162.4	176.7	220.5	211.6	230.9	201.3	164.3	158.1	157.8
67.5°	1184.5	465.2	148.8	161.6	196.1	190.6	223.2	192.6	158.9	153.8	153.0
70°	1128.4	388.1	131.9	141.7	168.4	166.9	210.9	182.4	151.7	147.4	143.7
72.5°	977.6	276.5	111.2	117.9	137.1	141.6	194.0	169.2	141.6	132.1	126.5
75°	802.9	204.7	91.3	92.7	104.1	116.4	170.7	153.7	129.6	113.5	109.2
77.5°	491.7	125.2	72.7	73.3	74.7	92.8	140.6	136.4	114.4	94.7	91.6
80°	159.2	68.3	52.5	55.2	51.0	68.0	108.8	116.1	98.2	79.2	75.8
82.5°	60.6	39.9	35.5	37.3	35.4	45.6	79.3	93.0	80.4	65.1	53.0
85°	29.3	22.5	21.0	23.5	21.8	23.4	50.7	68.5	61.0	42.4	39.4
87.5°	10.4	10.0	8.0	10.8	9.3	8.3	15.5	34.5	40.3	29.2	26.1
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)