

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: McGRAW-EDISON

Report Number: P534623

Luminaire Tested: **GALN-SA8A-AMB-U-SL4-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-AMB-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6225 lumens
Efficiency: N/A
Efficacy: 39.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 158.1
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

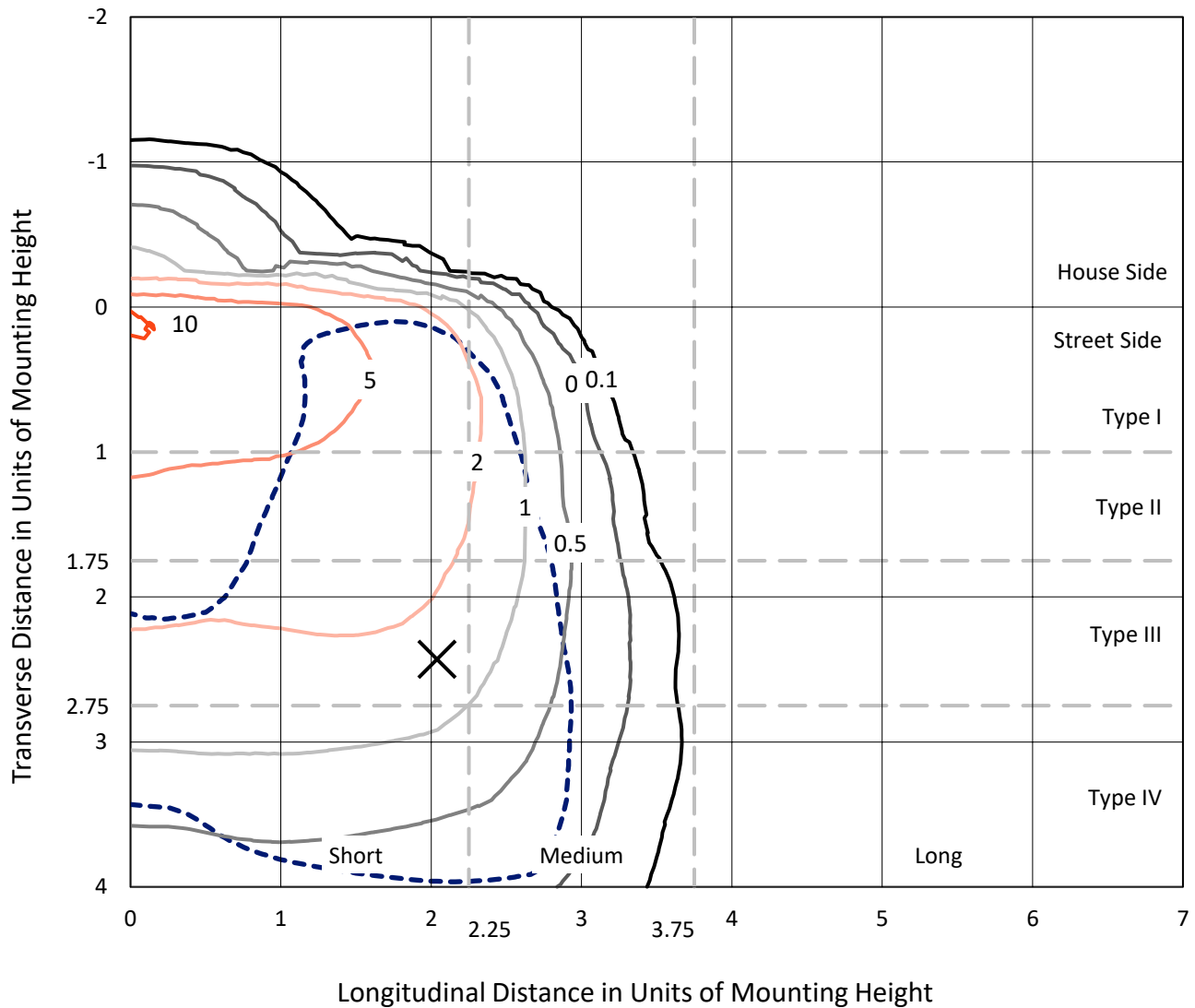


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Iso-Footcandle Lines of Horizontal Illumination

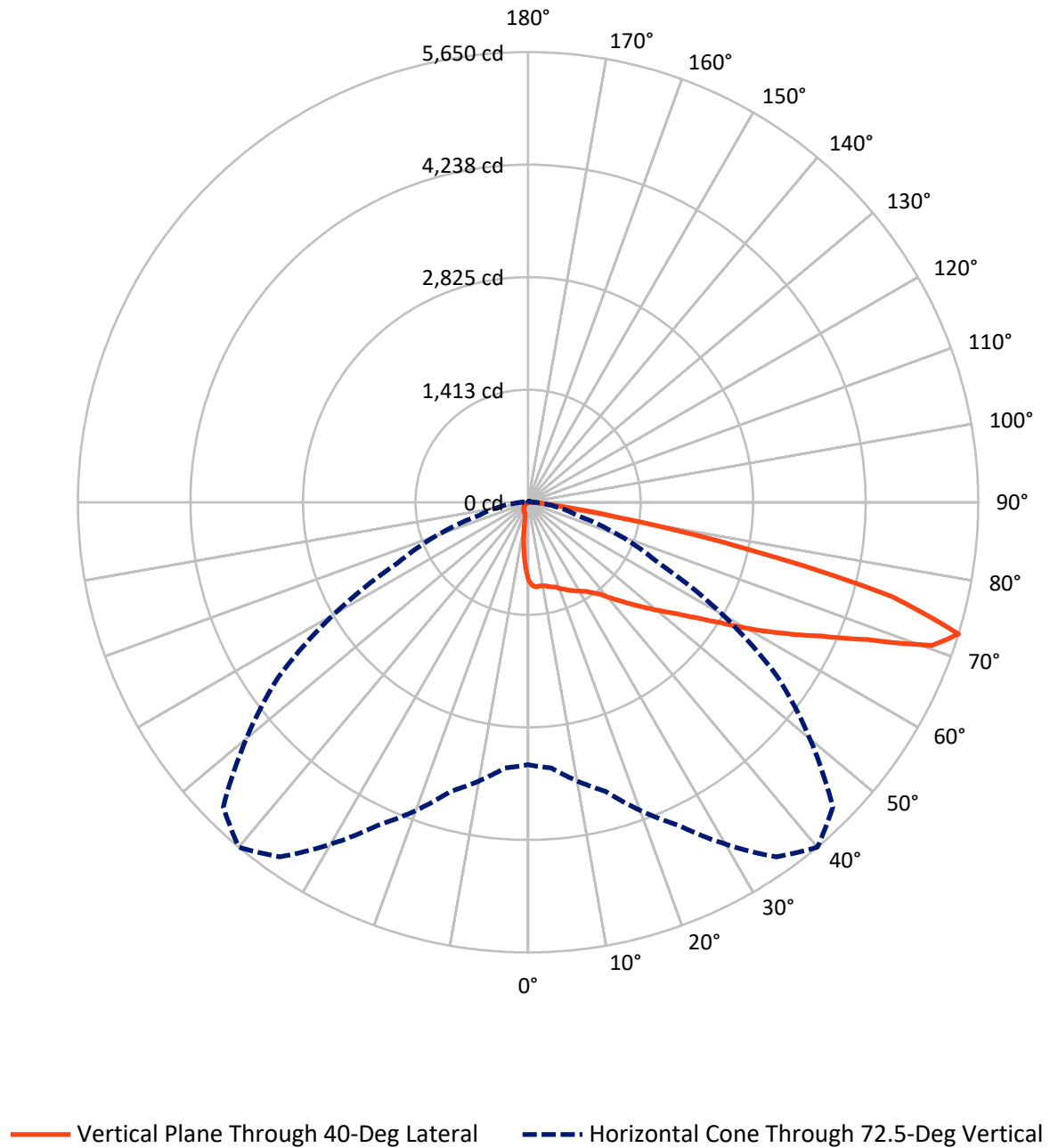
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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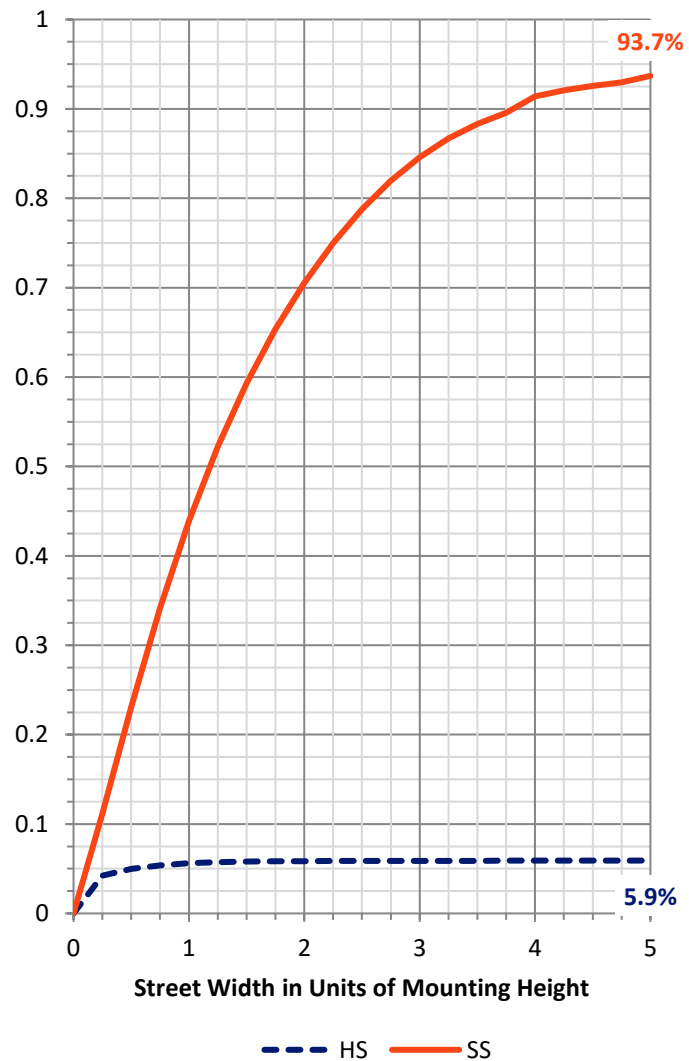
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	370.2	0.0	370.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	5854.8	0.0	5854.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	6225.0	0.0	6225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	1.3
10°-20°	195.9	3.1
20°-30°	324.7	5.2
30°-40°	496.8	8.0
40°-50°	793.3	12.7
50°-60°	1240.6	19.9
60°-70°	1780.6	28.6
70°-80°	1198.7	19.3
80°-90°	116.2	1.9
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°	6225.0	100.0
0°-180°	6225.0	100.0

Coefficient of Utilization



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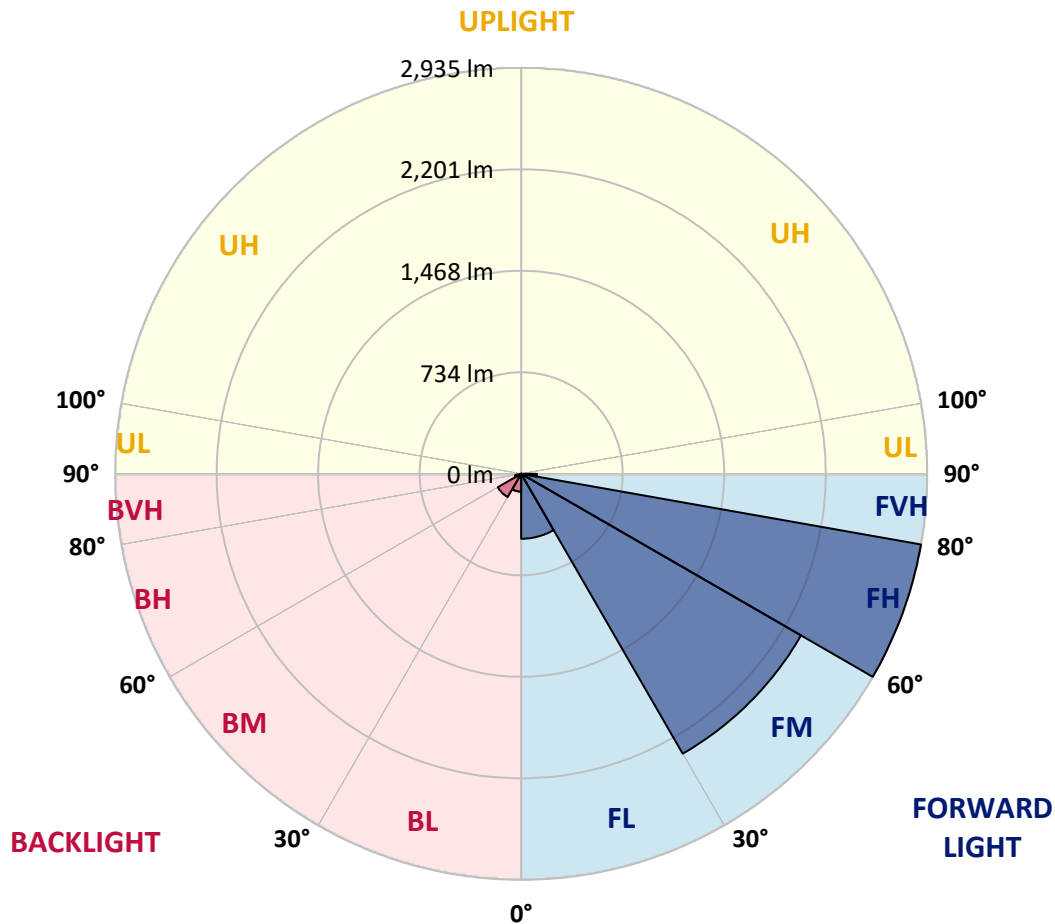
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.7	7.5			
FM	(30°-60°)	2336.3	37.5			
FH	(60°-80°)	2935.2	47.2			G2/5000
FVH	(80°-90°)	113.6	1.8			G2/225
BL	(0°-30°)	129.2	2.1	B1/500		
BM	(30°-60°)	194.4	3.1	B0/220		
BH	(60°-80°)	44.1	0.7	B0/110		G0/110
BVH	(80°-90°)	2.6	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	981.4	981.4	981.4	981.4	981.4	981.4	981.4	981.4	981.4	981.4	981.4
2.5°	1079.8	1073.0	1059.5	1056.1	1056.1	1045.9	1045.9	1032.3	1018.7	998.3	974.6
5°	1090.0	1086.6	1083.2	1086.6	1073.0	1066.2	1056.1	1039.1	1015.3	994.9	964.4
7.5°	1090.0	1090.0	1083.2	1073.0	1073.0	1059.5	1056.1	1035.7	1015.3	991.5	954.2
10°	1066.2	1066.2	1069.6	1073.0	1076.4	1066.2	1062.8	1032.3	1018.7	1005.1	961.0
12.5°	1042.5	1039.1	1059.5	1073.0	1083.2	1079.8	1069.6	1059.5	1032.3	1001.7	964.4
15°	1035.7	1035.7	1056.1	1086.6	1100.2	1103.6	1093.4	1076.4	1045.9	1018.7	974.6
17.5°	1039.1	1039.1	1066.2	1103.6	1124.0	1117.2	1120.6	1090.0	1059.5	1035.7	994.9
20°	1066.2	1059.5	1100.2	1144.3	1161.3	1157.9	1144.3	1110.4	1079.8	1059.5	1015.3
22.5°	1086.6	1083.2	1130.8	1174.9	1202.1	1185.1	1174.9	1124.0	1093.4	1083.2	1039.1
25°	1137.6	1140.9	1174.9	1225.8	1236.0	1225.8	1208.9	1144.3	1117.2	1124.0	1059.5
27.5°	1191.9	1198.7	1236.0	1270.0	1270.0	1259.8	1242.8	1174.9	1151.1	1157.9	1096.8
30°	1263.2	1253.0	1290.4	1310.7	1307.3	1293.8	1280.2	1208.9	1198.7	1222.4	1140.9
32.5°	1348.1	1337.9	1358.3	1365.1	1341.3	1331.1	1327.7	1259.8	1249.6	1300.5	1195.3
35°	1439.8	1419.4	1426.2	1416.0	1399.0	1392.2	1375.3	1317.5	1331.1	1399.0	1280.2
37.5°	1507.7	1500.9	1500.9	1470.3	1460.1	1460.1	1460.1	1409.2	1439.8	1558.6	1409.2
40°	1582.4	1568.8	1551.8	1531.5	1555.2	1572.2	1572.2	1524.7	1589.2	1745.4	1562.0
42.5°	1640.1	1633.3	1609.6	1602.8	1660.5	1691.0	1701.2	1660.5	1765.8	1993.3	1775.9
45°	1708.0	1691.0	1653.7	1687.7	1772.5	1823.5	1840.5	1833.7	1986.5	2268.3	2017.0
47.5°	1759.0	1755.6	1708.0	1772.5	1891.4	1972.9	2017.0	2013.6	2224.2	2607.9	2275.1
50°	1850.6	1830.3	1775.9	1891.4	2020.4	2135.9	2197.0	2237.8	2536.6	2933.9	2495.8
52.5°	1938.9	1922.0	1850.6	2020.4	2180.0	2319.2	2414.3	2550.2	2866.0	3212.3	2614.7
55°	2064.6	2054.4	1996.7	2176.6	2394.0	2553.6	2672.4	2889.7	3212.3	3402.5	2723.3
57.5°	2220.8	2180.0	2159.7	2383.8	2665.6	2852.4	3001.8	3253.1	3456.8	3568.9	2879.5
60°	2394.0	2346.4	2309.1	2618.1	3008.6	3236.1	3405.9	3575.7	3674.1	3806.6	3117.2
62.5°	2580.7	2540.0	2509.4	2835.4	3365.1	3630.0	3748.8	3830.3	4006.9	4207.2	3178.4
65°	2835.4	2777.7	2764.1	3151.2	3793.0	4051.0	4132.5	4302.3	4441.5	4326.1	2852.4
67.5°	3049.3	3113.8	3171.6	3626.6	4383.8	4594.4	4760.7	4906.8	4563.8	3650.4	1820.1
70°	3399.1	3412.7	3613.0	4197.1	5025.6	5382.2	5473.8	4940.7	3524.7	2017.0	689.3
72.5°	3293.8	3348.1	3755.6	4475.5	5433.1	5650.4	5409.3	3826.9	1813.3	638.4	180.0
75°	2312.5	2383.8	3263.2	3972.9	4913.5	4713.2	3905.0	1955.9	618.0	152.8	74.7
77.5°	1144.3	1212.3	1823.5	2556.9	3266.6	2787.9	1942.3	815.0	247.9	81.5	50.9
80°	618.0	645.2	730.1	1090.0	1446.6	1117.2	716.5	482.2	173.2	54.3	37.4
82.5°	336.2	363.3	468.6	424.5	472.0	404.1	356.5	465.2	112.1	40.7	34.0
85°	74.7	81.5	261.5	268.3	247.9	166.4	163.0	448.2	44.1	20.4	20.4
87.5°	0.0	0.0	47.5	101.9	108.7	91.7	112.1	190.2	6.8	6.8	6.8
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°	981.4	981.4	981.4	981.4	981.4	981.4	981.4	981.4	981.4	981.4	981.4
2.5°	964.4	954.2	923.6	893.1	862.5	838.7	811.6	794.6	781.0	777.6	774.2
5°	944.0	916.8	865.9	801.4	733.5	668.9	611.2	567.1	543.3	522.9	519.5
7.5°	933.8	906.6	815.0	713.1	594.2	495.8	404.1	332.8	281.8	268.3	258.1
10°	937.2	893.1	767.4	614.6	455.0	312.4	220.7	176.6	159.6	156.2	156.2
12.5°	930.4	879.5	713.1	512.7	312.4	186.8	152.8	146.0	146.0	146.0	146.0
15°	937.2	869.3	662.2	404.1	203.7	146.0	142.6	139.2	139.2	139.2	142.6
17.5°	954.2	872.7	607.8	302.2	149.4	139.2	135.8	135.8	135.8	135.8	135.8
20°	964.4	869.3	543.3	213.9	139.2	132.4	132.4	129.0	129.0	129.0	132.4
22.5°	971.2	859.1	468.6	156.2	132.4	129.0	125.6	125.6	125.6	125.6	125.6
25°	988.1	848.9	387.1	135.8	125.6	122.2	122.2	122.2	118.8	118.8	118.8
27.5°	1005.1	848.9	302.2	129.0	122.2	118.8	115.5	115.5	115.5	115.5	112.1
30°	1025.5	835.3	230.9	122.2	115.5	112.1	108.7	108.7	108.7	108.7	108.7
32.5°	1052.7	828.5	166.4	115.5	108.7	101.9	101.9	101.9	101.9	101.9	101.9
35°	1100.2	821.8	132.4	108.7	98.5	95.1	95.1	95.1	91.7	91.7	91.7
37.5°	1178.3	828.5	115.5	98.5	91.7	88.3	84.9	84.9	84.9	81.5	81.5
40°	1293.8	848.9	108.7	91.7	84.9	81.5	78.1	78.1	74.7	71.3	71.3
42.5°	1422.8	862.5	101.9	84.9	78.1	74.7	71.3	71.3	64.5	61.1	61.1
45°	1582.4	865.9	95.1	81.5	71.3	67.9	64.5	61.1	54.3	50.9	50.9
47.5°	1769.1	865.9	84.9	71.3	67.9	61.1	61.1	50.9	44.1	40.7	40.7
50°	1911.8	835.3	78.1	67.9	61.1	57.7	50.9	44.1	34.0	34.0	30.6
52.5°	1979.7	760.6	74.7	61.1	54.3	50.9	44.1	34.0	27.2	23.8	23.8
55°	2037.4	679.1	67.9	57.7	50.9	44.1	37.4	27.2	20.4	17.0	17.0
57.5°	2118.9	567.1	64.5	50.9	44.1	37.4	30.6	20.4	13.6	10.2	10.2
60°	2210.6	434.6	57.7	44.1	40.7	30.6	23.8	13.6	6.8	6.8	6.8
62.5°	2108.7	261.5	50.9	40.7	34.0	27.2	17.0	10.2	3.4	3.4	3.4
65°	1674.1	146.0	44.1	34.0	30.6	23.8	13.6	6.8	0.0	0.0	0.0
67.5°	937.2	88.3	37.4	30.6	27.2	17.0	10.2	3.4	0.0	0.0	0.0
70°	288.6	61.1	30.6	27.2	23.8	17.0	6.8	3.4	0.0	0.0	0.0
72.5°	78.1	44.1	23.8	20.4	20.4	13.6	6.8	3.4	0.0	0.0	0.0
75°	50.9	30.6	20.4	17.0	17.0	13.6	6.8	3.4	0.0	0.0	0.0
77.5°	37.4	27.2	17.0	13.6	13.6	13.6	6.8	3.4	0.0	0.0	0.0
80°	34.0	20.4	13.6	10.2	13.6	17.0	6.8	3.4	0.0	0.0	0.0
82.5°	34.0	20.4	10.2	10.2	13.6	17.0	6.8	3.4	0.0	0.0	0.0
85°	20.4	6.8	3.4	3.4	6.8	6.8	3.4	3.4	0.0	0.0	0.0
87.5°	3.4	3.4	0.0	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)