

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: P455883

Luminaire Tested: **GALN-SA7A-760-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31571 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

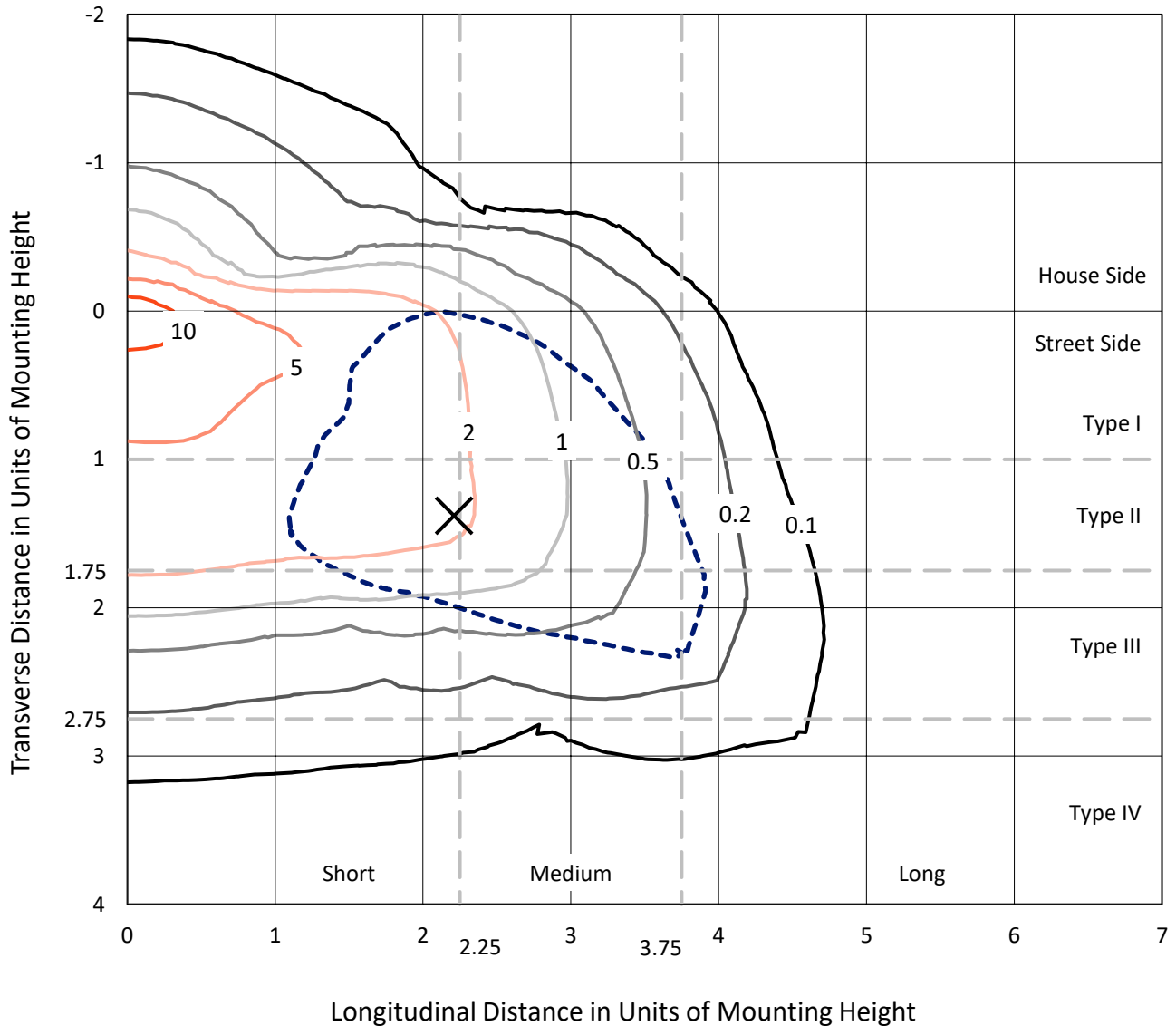
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

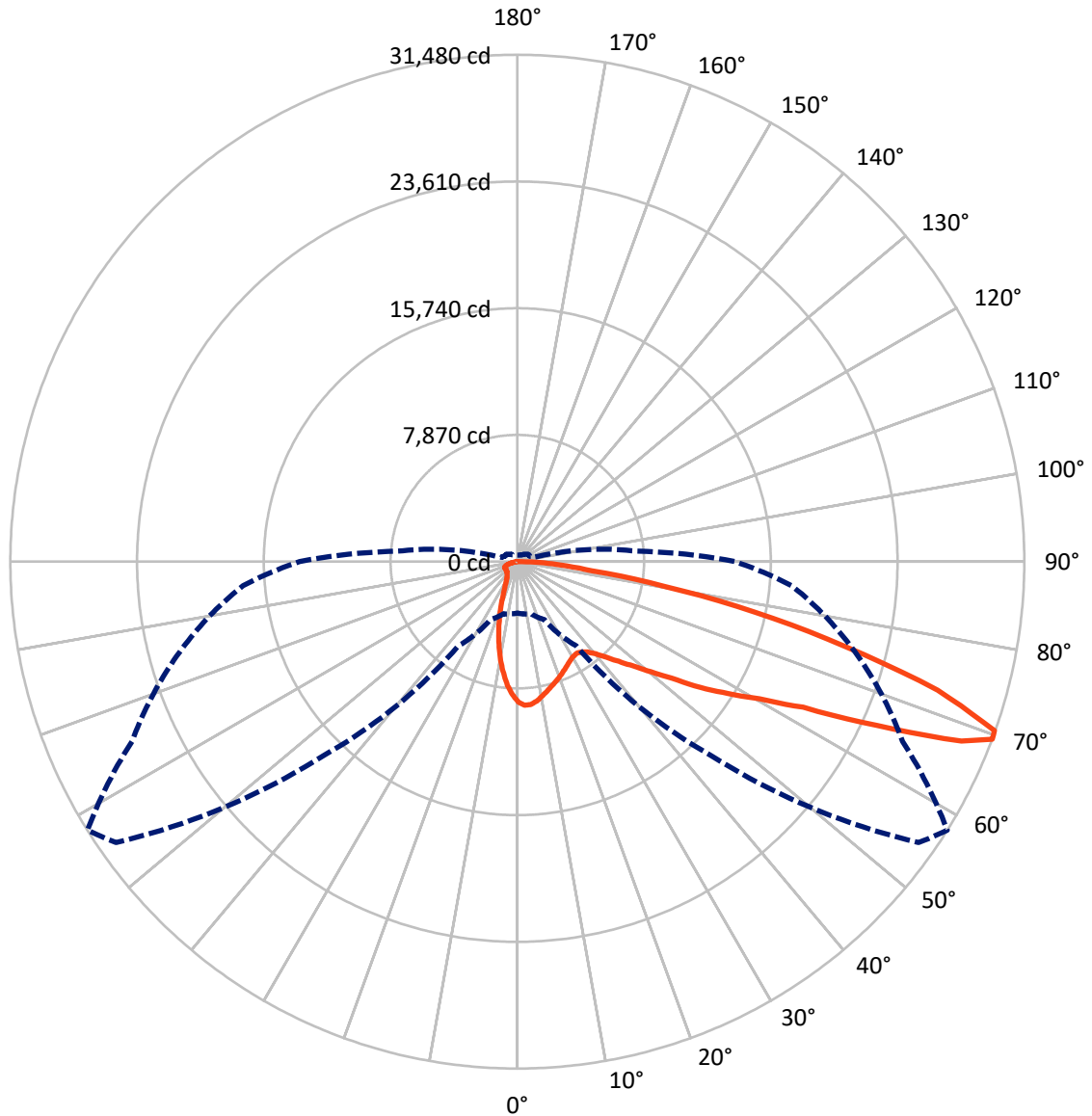
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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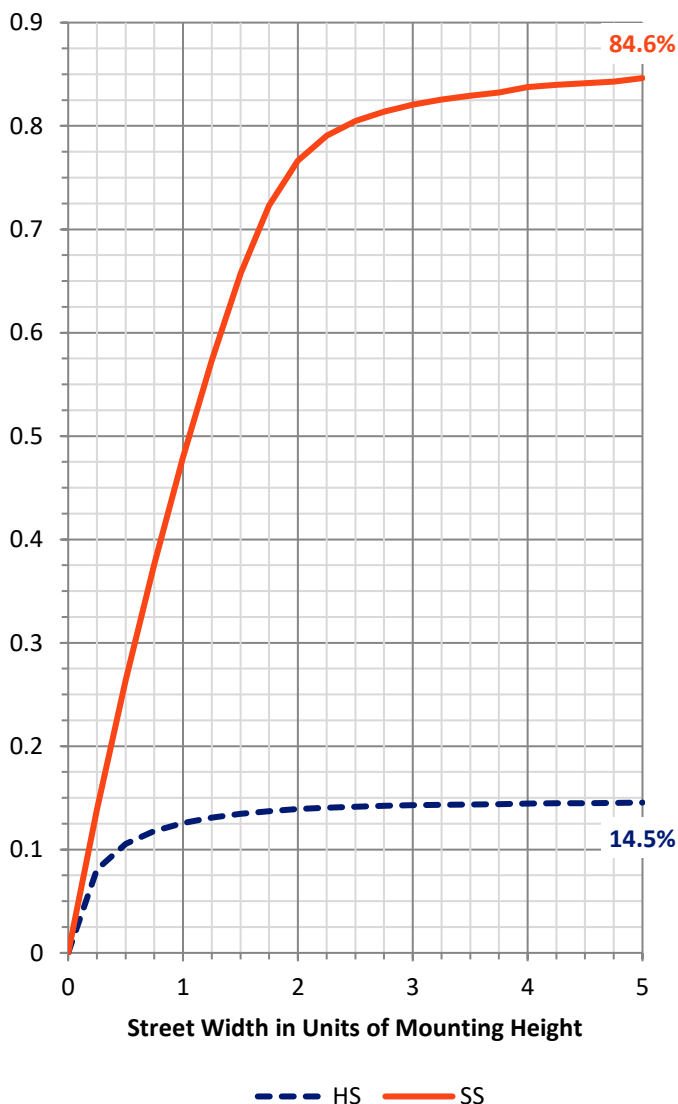
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4626.7	0.0	4626.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	26944.3	0.0	26944.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	31571.0	0.0	31571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.9	2.3
10°-20°	1626.9	5.2
20°-30°	2102.0	6.7
30°-40°	2730.1	8.6
40°-50°	3969.1	12.6
50°-60°	6333.5	20.1
60°-70°	8460.7	26.8
70°-80°	4877.3	15.4
80°-90°	730.5	2.3
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°	31571.0	100.0
0°-180°	31571.0	100.0

Coefficient of Utilization



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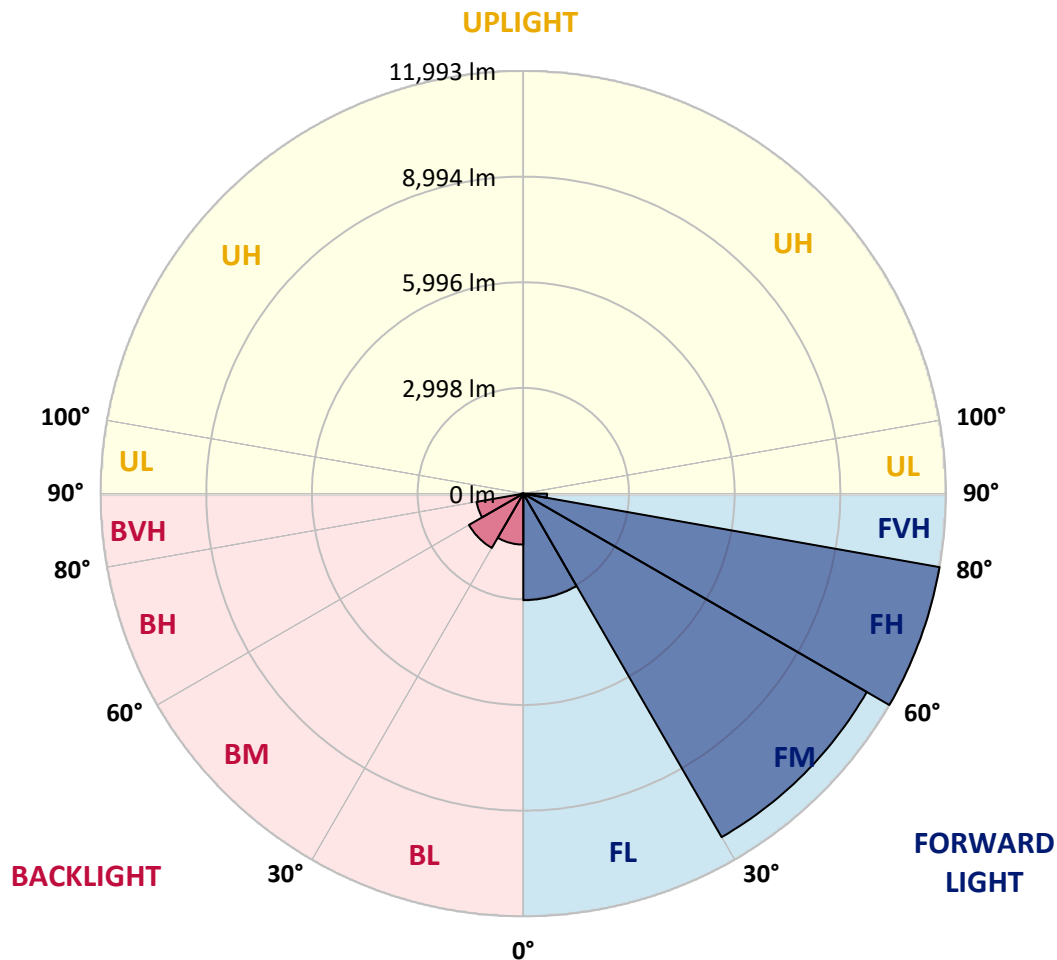
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3023.7	9.6			
FM	(30°-60°)	11253.4	35.6			
FH	(60°-80°)	11992.6	38.0			G4/12000
FVH	(80°-90°)	674.5	2.1			G4/750
BL	(0°-30°)	1446.1	4.6	B3/2500		
BM	(30°-60°)	1779.3	5.6	B2/2500		
BH	(60°-80°)	1345.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	56.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8724.4	8724.4	8724.4	8724.4	8724.4	8724.4	8724.4	8724.4	8724.4	8724.4	8724.4
2.5°	9048.3	9073.0	9066.0	9057.2	9043.1	9004.3	8940.9	8930.4	8889.9	8803.6	8696.2
5°	8909.3	8930.4	8932.1	8944.5	8962.1	8955.0	8909.3	8904.0	8844.1	8727.9	8548.3
7.5°	8432.1	8460.3	8521.9	8590.6	8652.2	8710.3	8724.4	8733.2	8696.2	8562.4	8322.9
10°	7895.1	7923.2	7951.4	8053.5	8205.0	8349.3	8469.1	8484.9	8493.7	8370.5	8078.2
12.5°	7300.0	7358.1	7417.9	7569.3	7771.8	7999.0	8210.2	8243.7	8303.6	8210.2	7866.9
15°	6794.6	6854.5	6940.8	7076.3	7321.1	7648.6	7946.1	8000.7	8118.7	8071.1	7669.7
17.5°	6444.2	6465.4	6525.2	6680.2	6944.3	7289.4	7687.3	7796.5	7984.9	7972.5	7500.7
20°	6167.8	6194.2	6231.2	6326.3	6600.9	6965.4	7446.1	7586.9	7842.3	7884.5	7333.4
22.5°	6051.6	6071.0	6065.7	6116.7	6303.4	6669.6	7201.4	7368.6	7715.5	7824.6	7178.5
25°	6058.6	6076.3	6049.8	6037.5	6148.4	6409.0	6946.0	7159.1	7613.4	7784.2	7037.6
27.5°	6176.6	6188.9	6139.6	6090.3	6099.1	6247.0	6734.8	6970.7	7527.1	7801.8	6919.6
30°	6335.1	6358.0	6326.3	6266.4	6201.3	6208.3	6599.2	6831.6	7486.6	7863.4	6863.3
32.5°	6539.3	6560.4	6546.4	6498.8	6414.3	6321.0	6565.7	6780.5	7490.1	7988.4	6851.0
35°	6754.1	6796.4	6819.3	6815.8	6747.1	6585.1	6697.8	6875.6	7574.6	8197.9	6923.2
37.5°	6997.1	7032.3	7130.9	7194.3	7130.9	6942.5	6995.3	7118.6	7761.3	8500.8	7081.6
40°	7233.0	7285.9	7430.2	7627.4	7602.8	7437.3	7449.6	7530.6	8090.5	8951.5	7391.5
42.5°	7479.5	7542.9	7794.7	8087.0	8145.1	8016.6	8050.0	8122.2	8558.9	9576.6	7923.2
45°	7796.5	7872.2	8182.1	8546.5	8775.4	8696.2	8791.3	8826.5	9185.7	10390.0	8624.0
47.5°	8205.0	8293.0	8675.1	9129.3	9453.3	9525.5	9691.0	9669.9	9962.2	11353.1	9532.5
50°	8893.4	8942.7	9303.7	9766.7	10212.2	10537.9	10717.5	10751.0	10925.3	12289.8	10548.5
52.5°	9712.1	9756.2	10016.7	10421.7	10979.9	11670.1	12113.8	12004.6	12046.9	13430.8	11737.0
55°	10633.0	10706.9	10872.5	11141.8	11865.5	12881.4	13772.4	13798.8	13330.4	14522.4	12876.2
57.5°	11346.1	11471.1	11754.6	12138.4	13055.8	14228.4	15425.7	15443.3	14844.6	15688.0	14133.3
60°	10986.9	11134.8	11782.7	12717.7	14617.5	16579.0	17401.2	17300.9	16318.4	17015.6	15666.9
62.5°	9437.5	9463.9	10405.9	11867.3	15098.2	19723.6	20341.6	19917.3	18285.1	18698.9	17225.1
65°	6107.9	6280.5	7027.0	9074.8	13518.8	21468.5	25493.5	24512.8	21042.4	20609.2	18529.8
67.5°	3856.0	3812.0	4121.8	5181.8	9298.4	19931.4	29890.0	29735.1	24648.3	21815.3	18218.2
69°	3197.5	3246.8	3352.4	3972.2	6398.5	17017.4	30409.4	31479.9	26396.7	21720.3	17086.0
70°	2899.9	2922.8	3033.7	3521.4	4937.1	14253.0	29557.2	31432.4	27083.4	21322.3	16265.5
72.5°	2301.3	2299.5	2489.7	2929.8	3690.5	8136.3	24269.8	27289.4	26315.7	19470.1	13439.6
75°	1748.4	1776.6	1986.1	2479.1	3400.0	4445.8	16936.4	21016.0	21017.7	15378.1	8386.3
77.5°	1260.7	1278.3	1523.0	2081.2	3202.8	3604.2	11280.9	15073.5	14170.3	7046.4	2635.8
80°	825.8	836.3	1023.0	1648.0	2887.6	3400.0	6689.0	9226.2	6683.7	1869.9	871.6
82.5°	452.5	505.3	625.1	1067.0	2317.1	3141.1	4065.5	4669.4	2507.3	832.8	454.3
85°	227.1	241.2	352.1	623.3	1514.2	2598.8	2831.2	2678.1	1294.1	413.8	235.9
87.5°	66.9	84.5	146.1	241.2	614.5	1354.0	1575.8	1413.9	498.3	149.7	49.3
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°	8724.4	8724.4	8724.4	8724.4	8724.4	8724.4	8724.4	8724.4	8724.4	8724.4	8724.4
2.5°	8652.2	8620.5	8479.6	8352.9	8236.7	8113.4	8009.5	7918.0	7926.8	7928.5	7835.2
5°	8455.0	8382.8	8115.2	7865.1	7653.9	7386.2	7157.3	7009.4	6935.5	6836.9	6872.1
7.5°	8187.4	8048.3	7676.7	7261.2	6872.1	6525.2	6148.4	5889.6	5724.1	5563.9	5585.0
10°	7910.9	7687.3	7146.8	6597.4	6093.9	5539.2	5058.6	4646.5	4340.2	4225.7	4150.0
12.5°	7627.4	7333.4	6646.7	5916.0	5220.5	4556.7	3875.3	3433.4	3095.3	2915.8	2938.6
15°	7368.6	7011.2	6125.6	5234.6	4331.4	3540.8	2861.2	2440.4	2204.4	2155.1	2183.3
17.5°	7129.2	6660.8	5637.8	4572.6	3517.9	2655.2	2149.8	1912.1	1817.1	1790.7	1788.9
20°	6882.7	6363.2	5090.2	3864.8	2741.4	2058.3	1764.2	1653.3	1635.7	1646.3	1648.0
22.5°	6632.6	5995.3	4526.8	3162.3	2183.3	1683.2	1542.4	1512.5	1526.5	1551.2	1554.7
25°	6402.0	5671.3	3984.5	2546.0	1743.1	1479.0	1410.3	1410.3	1442.0	1479.0	1480.8
27.5°	6211.8	5357.9	3444.0	2021.3	1459.6	1331.1	1308.2	1320.5	1364.6	1392.7	1394.5
30°	6055.1	5065.6	2933.4	1619.9	1283.6	1213.1	1207.9	1229.0	1260.7	1287.1	1288.8
32.5°	5937.2	4808.5	2456.2	1361.0	1162.1	1123.3	1121.6	1137.4	1155.0	1162.1	1169.1
35°	5891.4	4595.5	2019.5	1197.3	1081.1	1056.4	1056.4	1054.7	1061.7	1065.2	1068.8
37.5°	5928.4	4431.7	1681.5	1091.6	1021.2	1003.6	993.0	982.5	979.0	979.0	980.7
40°	6085.1	4345.5	1429.7	1023.0	979.0	952.6	933.2	920.9	908.5	912.1	915.6
42.5°	6417.8	4361.3	1258.9	977.2	942.0	905.0	876.8	862.8	854.0	864.5	862.8
45°	6947.8	4519.8	1149.8	945.5	905.0	857.5	831.1	817.0	817.0	832.8	838.1
47.5°	7689.1	4822.6	1091.6	920.9	876.8	820.5	794.1	783.5	787.0	813.5	815.2
50°	8594.1	5349.1	1081.1	908.5	862.8	794.1	764.2	753.6	762.4	790.6	794.1
52.5°	9592.4	6027.0	1132.1	910.3	850.4	778.2	739.5	723.7	732.5	755.3	762.4
55°	10775.6	6875.6	1264.2	917.3	832.8	769.4	721.9	686.7	697.2	713.1	714.9
57.5°	11983.5	7946.1	1496.6	919.1	818.7	753.6	692.0	646.2	646.2	656.7	662.0
60°	13459.0	9111.7	1803.0	920.9	820.5	730.7	651.5	600.4	593.4	598.6	600.4
62.5°	14923.9	10087.2	1854.0	915.6	838.1	707.8	607.4	554.6	542.3	540.5	537.0
65°	15570.1	9905.8	1519.5	890.9	857.5	693.7	572.2	510.6	489.5	482.4	482.4
67.5°	14517.2	8379.3	1142.7	857.5	845.1	679.6	538.8	473.6	449.0	434.9	434.9
69°	13527.6	7453.1	1026.5	834.6	813.5	656.7	517.7	454.3	424.3	408.5	403.2
70°	12763.5	6815.8	977.2	815.2	783.5	630.3	501.8	440.2	406.7	389.1	385.6
72.5°	10185.8	5347.3	855.7	741.3	667.3	530.0	445.5	396.2	364.5	345.1	339.8
75°	5870.2	2898.1	709.6	644.4	537.0	412.0	376.8	345.1	320.5	302.8	297.6
77.5°	1806.5	1119.8	514.1	508.8	394.4	318.7	301.1	288.8	271.2	251.8	248.3
80°	760.6	570.5	348.6	343.3	262.3	221.9	216.6	214.8	207.8	191.9	186.6
82.5°	417.3	322.2	243.0	211.3	158.5	128.5	133.8	135.6	130.3	114.4	103.9
85°	204.2	176.1	118.0	95.1	72.2	45.8	44.0	52.8	49.3	35.2	38.7
87.5°	40.5	49.3	31.7	14.1	7.0	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)