

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: P455070

Luminaire Tested: **GALN-SA6B-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23343 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

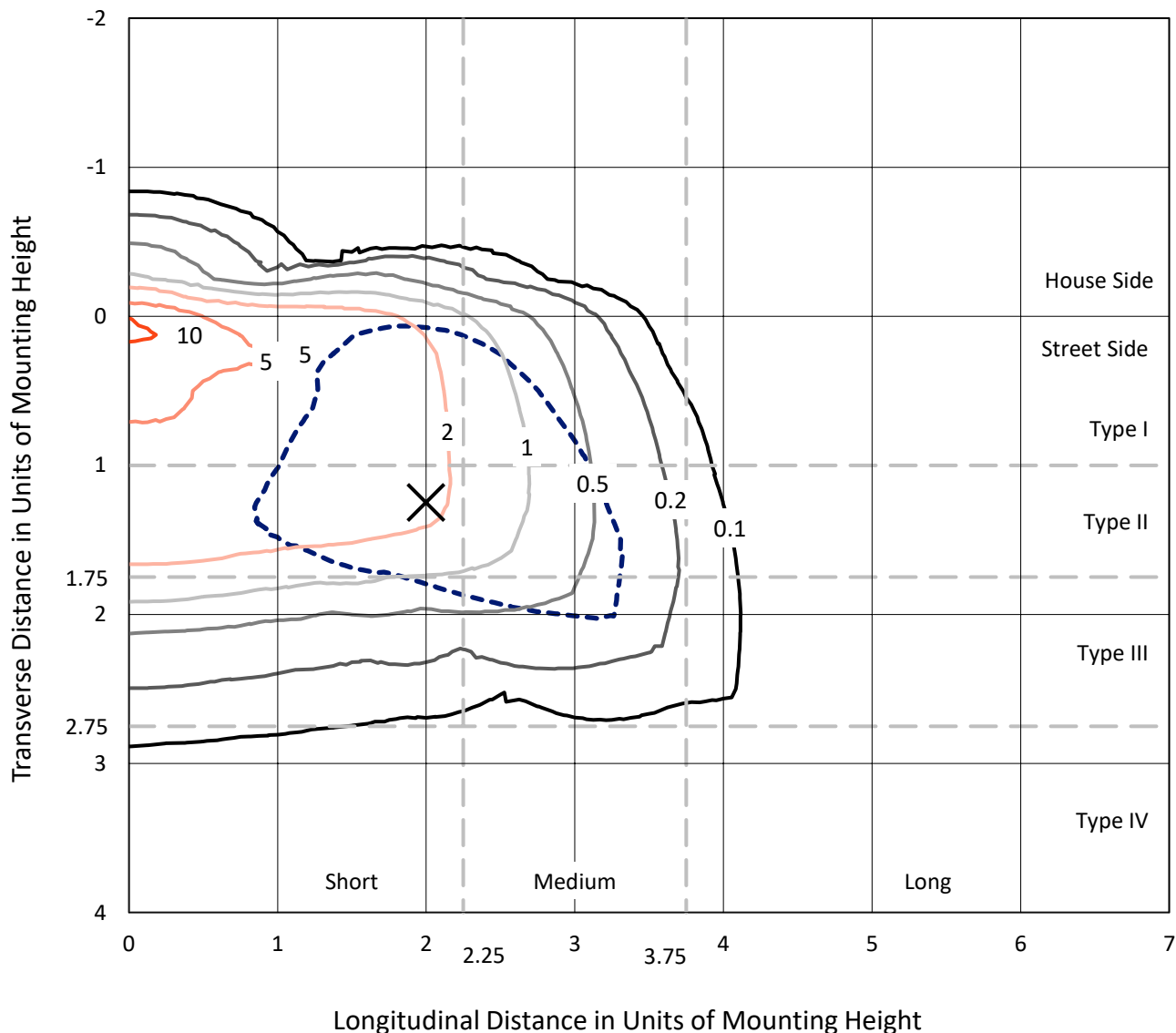
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

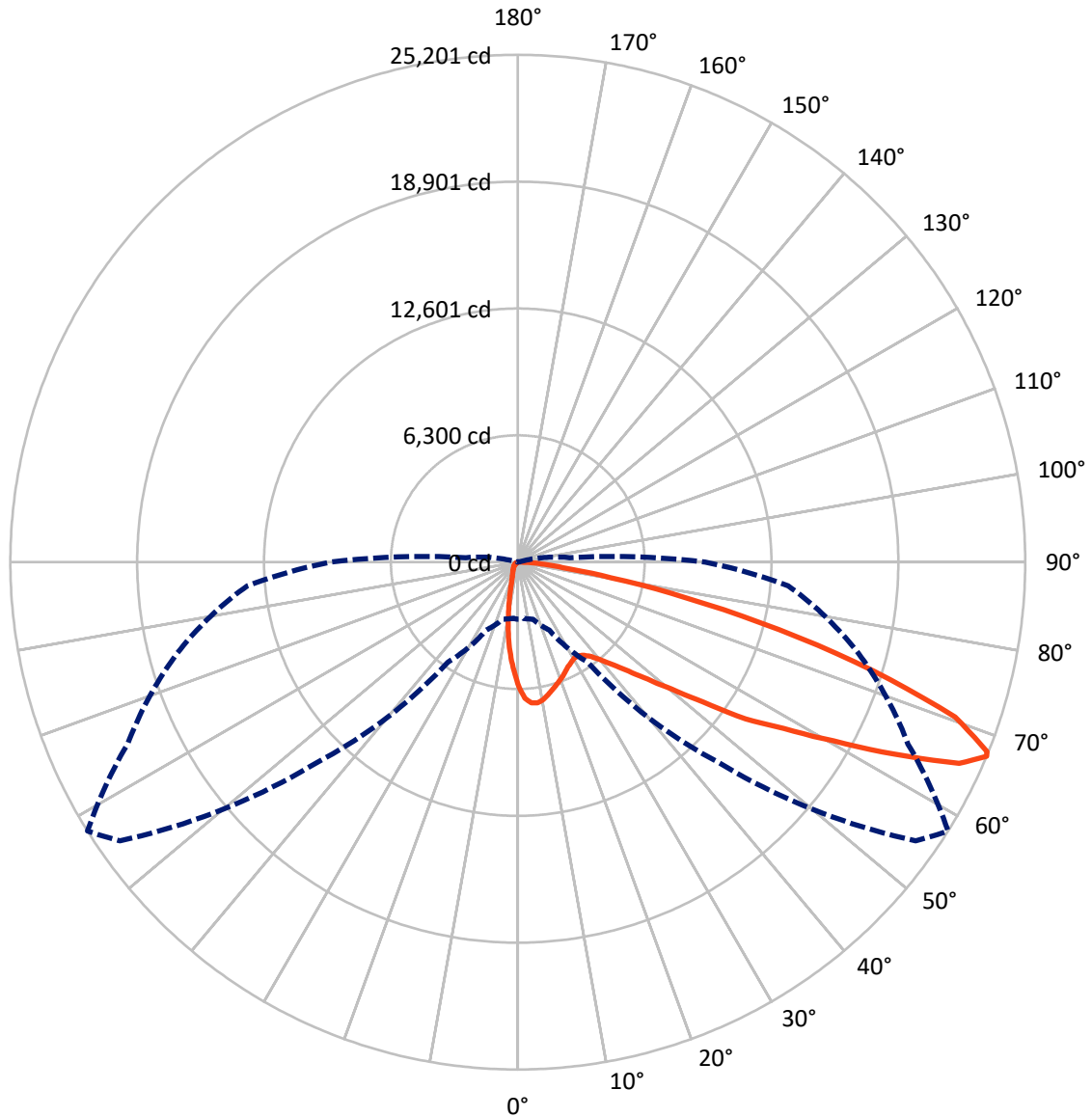
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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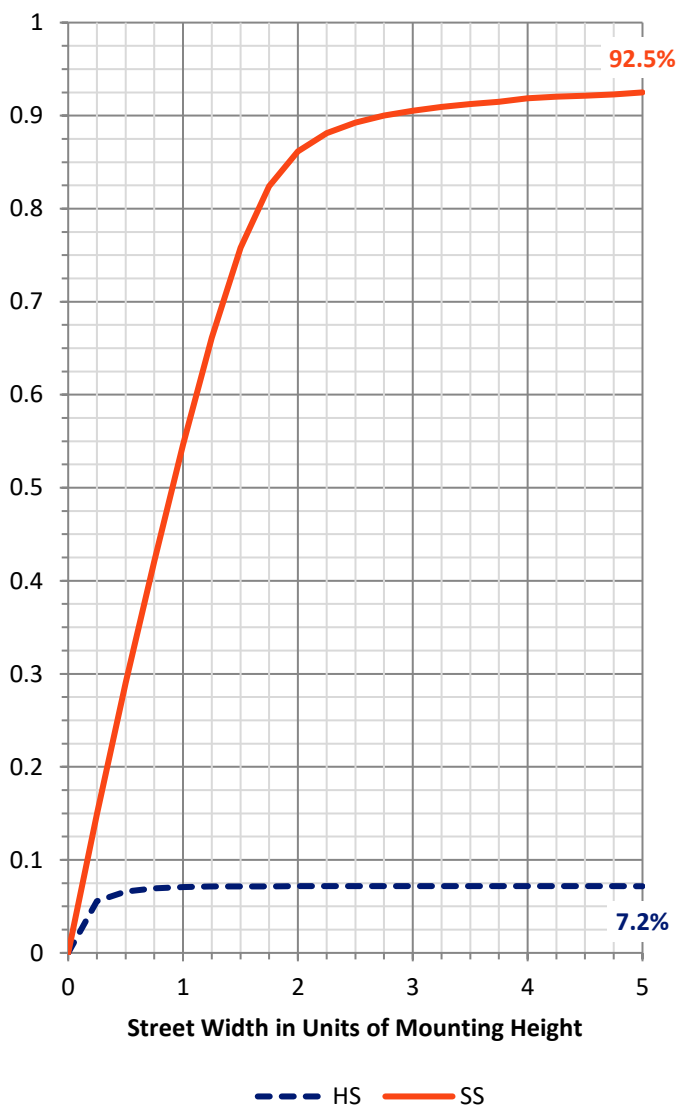
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1684.6	0.0	1684.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21658.4	0.0	21658.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	23343.0	0.0	23343.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.1	2.2
10°-20°	1084.5	4.6
20°-30°	1469.6	6.3
30°-40°	2038.2	8.7
40°-50°	3250.7	13.9
50°-60°	5619.2	24.1
60°-70°	6418.8	27.5
70°-80°	2676.1	11.5
80°-90°	283.7	1.2
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°	23343.0	100.0
0°-180°	23343.0	100.0



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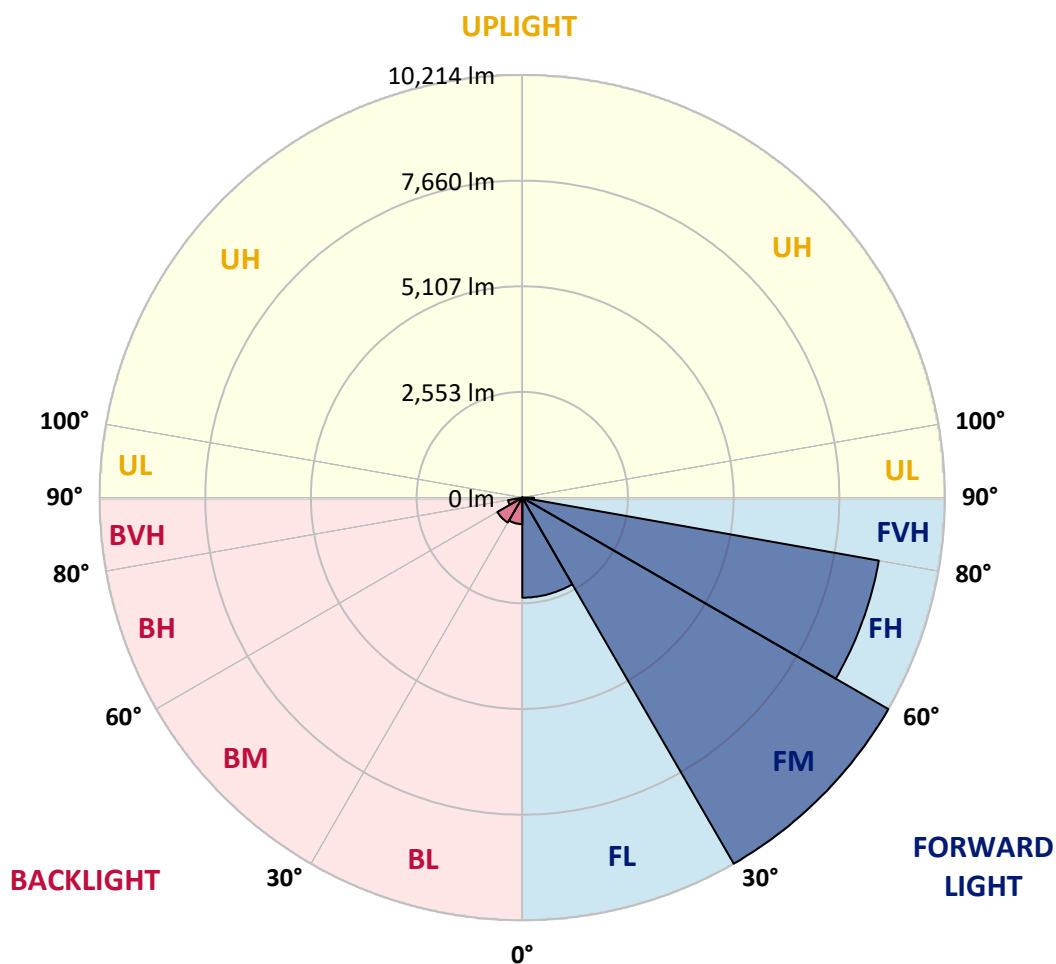
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2416.6	10.4			
FM	(30°-60°)	10213.5	43.8			
FH	(60°-80°)	8746.7	37.5			G4/12000
FVH	(80°-90°)	281.7	1.2			G3/500
BL	(0°-30°)	639.7	2.7	B2/1000		
BM	(30°-60°)	694.6	3.0	B1/1000		
BH	(60°-80°)	348.3	1.5	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6188.0	6188.0	6188.0	6188.0	6188.0	6188.0	6188.0	6188.0	6188.0	6188.0	6188.0
2.5°	7181.7	7192.6	7152.0	7119.3	7035.0	6944.6	6824.4	6760.5	6651.3	6462.6	6253.5
5°	7350.1	7364.2	7357.9	7350.1	7317.4	7230.0	7077.1	7021.0	6860.3	6553.0	6175.5
7.5°	6975.8	7027.2	7033.5	7094.3	7152.0	7159.8	7102.1	7060.0	6911.8	6551.5	6036.7
10°	6479.7	6514.0	6563.9	6634.1	6773.0	6888.4	6944.6	6938.3	6852.5	6503.1	5874.5
12.5°	5979.0	5997.7	6074.1	6194.3	6364.3	6560.8	6710.6	6740.2	6741.8	6445.4	5738.8
15°	5548.5	5540.7	5599.9	5738.8	5977.4	6223.9	6492.2	6539.0	6613.9	6389.2	5612.4
17.5°	5180.3	5220.9	5230.3	5383.1	5603.1	5922.8	6264.4	6347.1	6496.9	6340.9	5507.9
20°	4952.6	4974.4	4994.7	5080.5	5278.6	5615.5	6050.7	6164.6	6387.7	6297.2	5390.9
22.5°	4885.5	4899.6	4882.4	4908.9	5049.3	5348.8	5818.3	5969.6	6283.2	6256.6	5295.8
25°	4937.0	4951.0	4910.5	4879.3	4927.6	5132.0	5593.7	5777.8	6198.9	6248.8	5224.0
27.5°	5061.8	5088.3	5032.1	4976.0	4947.9	5015.0	5417.4	5631.1	6141.2	6286.3	5191.3
30°	5256.8	5272.4	5230.3	5161.6	5097.7	5030.6	5325.4	5529.7	6125.6	6373.6	5188.1
32.5°	5468.9	5501.7	5478.3	5433.0	5350.4	5191.3	5351.9	5532.9	6163.1	6500.0	5227.1
35°	5731.0	5768.4	5790.2	5780.9	5674.8	5476.7	5520.4	5673.3	6262.9	6732.4	5333.2
37.5°	5988.4	6021.1	6144.3	6186.5	6092.9	5905.7	5848.0	5949.4	6482.8	7036.6	5525.1
40°	6283.2	6326.8	6500.0	6660.7	6615.4	6418.9	6312.8	6397.0	6819.8	7495.2	5888.5
42.5°	6565.5	6643.5	6907.1	7191.0	7233.1	7013.2	6943.0	6971.1	7318.9	8155.0	6395.5
45°	6966.4	7039.7	7379.8	7765.0	7963.2	7791.6	7719.8	7715.1	8003.7	9083.1	7217.5
47.5°	7545.1	7610.6	8011.5	8392.1	8744.6	8768.0	8632.3	8679.1	8864.8	10168.8	8225.2
50°	8254.8	8409.3	8672.9	9069.1	9540.2	9920.8	9962.9	9900.5	10059.6	11426.1	9435.7
52.5°	9285.9	9345.2	9587.0	9913.0	10465.2	11111.0	11611.7	11525.9	11476.0	12624.0	10658.6
55°	10054.9	10134.5	10510.4	10958.1	11767.7	12619.4	13705.0	13734.7	13104.5	13775.2	11855.0
57.5°	9822.5	9944.2	10513.5	11413.6	13193.4	14750.2	15558.2	15578.4	14611.3	14893.7	13205.9
60°	8629.2	8686.9	9502.7	10703.8	13315.1	17058.8	18186.6	18022.8	16144.7	16144.7	14399.2
62.5°	6119.4	6209.9	6871.2	8638.6	12025.1	17860.5	21334.4	20995.9	18256.7	17341.1	15110.5
65°	3910.6	3823.2	4261.6	5453.3	8958.3	16676.6	24075.1	24095.4	20244.0	17820.0	14722.1
67°	2832.7	2798.4	2924.8	3728.1	6074.1	14018.6	24132.8	25201.3	21385.9	17517.4	13480.4
67.5°	2590.9	2617.5	2709.5	3363.1	5518.8	12756.6	23870.7	25135.8	21643.2	17334.9	13031.2
70°	1963.9	1918.6	2018.5	2378.8	3308.5	8047.4	20534.2	23053.4	21323.5	15523.9	10412.2
72.5°	1444.4	1439.8	1578.6	1945.2	2547.3	4286.5	15414.7	18484.5	17420.7	11820.7	6556.1
75°	974.9	1018.6	1240.1	1625.4	2308.6	2779.7	10508.9	13410.2	12093.7	6712.1	2679.9
77.5°	555.3	558.4	798.7	1305.6	2073.1	2236.9	6227.0	8543.4	6401.7	2232.2	795.5
80°	240.2	263.6	396.2	948.4	1719.0	1981.0	3570.5	4695.2	2589.4	472.6	257.4
82.5°	88.9	104.5	174.7	583.4	1254.1	1631.6	2157.3	2241.5	878.2	166.9	160.7
85°	0.0	3.1	64.0	273.0	653.6	728.5	1441.3	1329.0	388.4	79.6	104.5
87.5°	0.0	0.0	0.0	28.1	85.8	271.4	447.7	499.2	93.6	28.1	25.0
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°	6188.0	6188.0	6188.0	6188.0	6188.0	6188.0	6188.0	6188.0	6188.0	6188.0	6188.0
2.5°	6141.2	6039.8	5785.6	5531.3	5342.6	5185.0	4947.9	4818.4	4749.8	4648.4	4654.7
5°	5986.8	5780.9	5333.2	4869.9	4495.6	4130.5	3693.8	3517.5	3369.3	3285.1	3228.9
7.5°	5757.5	5453.3	4790.4	4172.7	3597.1	2959.1	2480.2	2160.4	1945.2	1865.6	1789.2
10°	5506.4	5102.3	4239.7	3383.4	2584.7	1926.4	1520.9	1227.6	1123.1	1026.4	1035.8
12.5°	5273.9	4782.6	3734.3	2670.5	1811.0	1224.5	954.6	834.5	800.2	789.3	789.3
15°	5083.6	4476.8	3191.5	2007.6	1241.7	879.8	764.3	731.6	719.1	716.0	716.0
17.5°	4880.8	4186.7	2701.7	1483.4	903.2	736.3	697.3	675.4	670.7	667.6	667.6
20°	4699.9	3895.0	2236.9	1104.4	730.0	662.9	638.0	623.9	619.3	616.1	617.7
22.5°	4528.3	3636.1	1800.1	834.5	642.7	603.7	578.7	564.7	555.3	547.5	549.1
25°	4375.4	3386.5	1447.6	683.2	578.7	544.4	519.4	499.2	478.9	469.5	468.0
27.5°	4267.8	3168.1	1127.8	585.0	521.0	483.6	452.4	427.4	400.9	386.8	383.7
30°	4178.9	2946.6	892.2	516.3	463.3	427.4	388.4	352.5	324.5	310.4	304.2
32.5°	4121.2	2736.0	703.5	460.2	414.9	371.2	327.6	291.7	260.5	246.5	243.3
35°	4111.8	2559.8	575.6	413.4	371.2	324.5	279.2	240.2	213.7	199.7	196.5
37.5°	4178.9	2424.0	482.0	375.9	335.4	283.9	234.0	198.1	174.7	163.8	162.2
40°	4358.3	2338.2	418.0	344.7	302.6	246.5	199.7	168.5	145.1	134.1	134.1
42.5°	4699.9	2341.4	375.9	315.1	269.9	210.6	170.0	140.4	120.1	110.8	107.6
45°	5233.4	2447.4	340.1	285.5	238.7	182.5	145.1	115.4	95.2	87.4	87.4
47.5°	5947.8	2658.0	308.9	255.8	210.6	156.0	123.2	93.6	76.4	68.6	68.6
50°	6882.2	2996.5	282.3	230.9	187.2	134.1	99.8	76.4	59.3	53.0	51.5
52.5°	7858.6	3414.6	251.1	209.0	160.7	113.9	81.1	59.3	45.2	40.6	39.0
55°	8936.5	3823.2	221.5	187.2	131.0	95.2	64.0	46.8	32.8	28.1	28.1
57.5°	10023.7	4224.1	185.6	156.0	103.0	70.2	49.9	34.3	21.8	17.2	17.2
60°	10944.1	4353.6	157.5	126.3	78.0	49.9	35.9	21.8	12.5	7.8	7.8
62.5°	11070.4	3916.8	132.6	96.7	56.2	34.3	18.7	12.5	4.7	3.1	3.1
65°	10384.1	3182.1	110.8	73.3	37.4	17.2	7.8	4.7	1.6	0.0	0.0
67°	9304.6	2580.0	90.5	54.6	26.5	10.9	4.7	1.6	0.0	0.0	0.0
67.5°	9028.5	2459.9	87.4	51.5	23.4	9.4	3.1	1.6	0.0	0.0	0.0
70°	7084.9	1842.2	62.4	31.2	14.0	6.2	0.0	0.0	0.0	0.0	0.0
72.5°	4403.5	1042.0	45.2	18.7	9.4	3.1	0.0	0.0	0.0	0.0	0.0
75°	1664.4	365.0	31.2	12.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	517.9	138.8	18.7	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	174.7	53.0	12.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	107.6	21.8	7.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	67.1	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	3.1	1.6	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)