

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: P456926

Luminaire Tested: **GALN-SA8B-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456926
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-SA8B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 31787 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

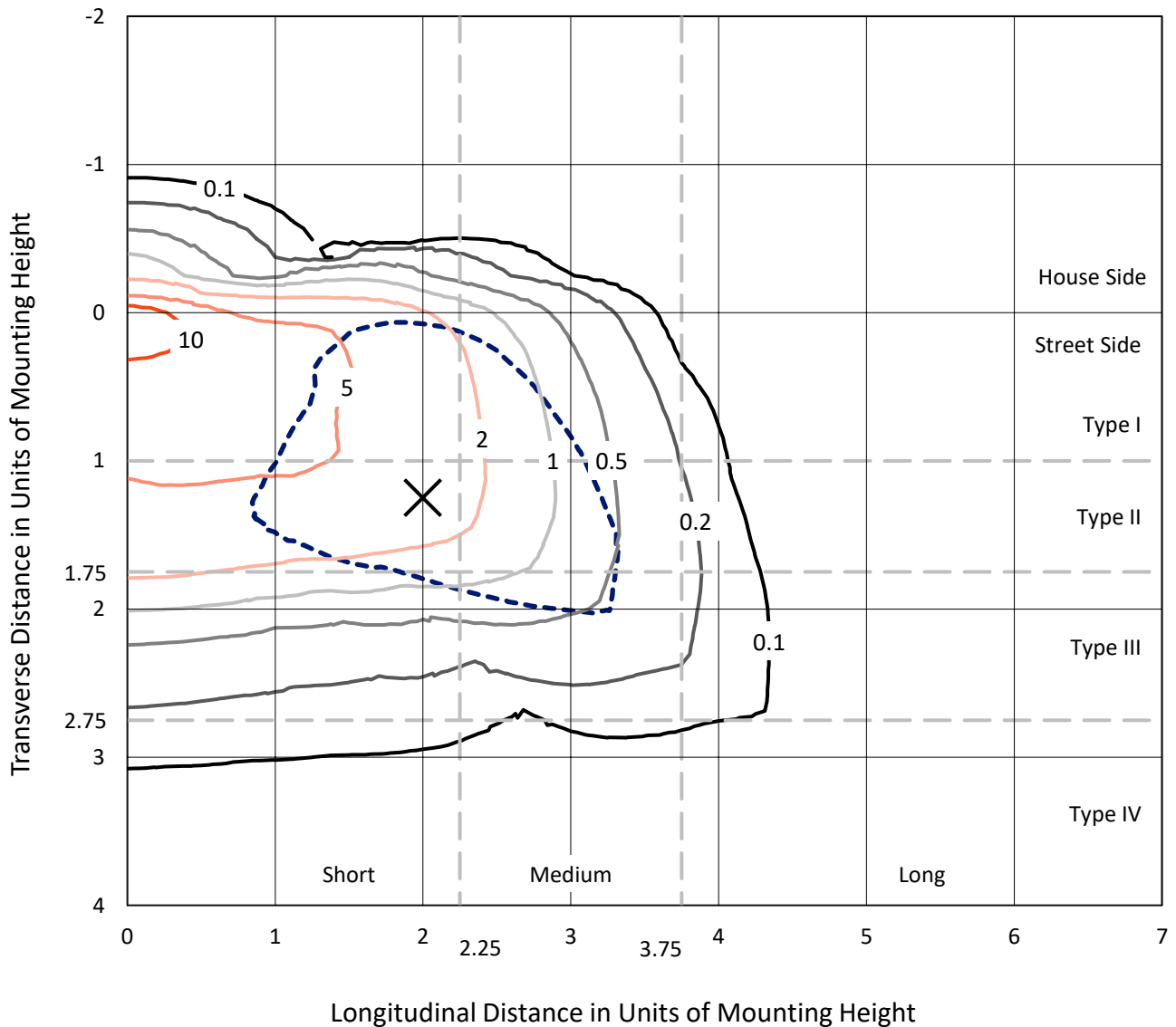
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

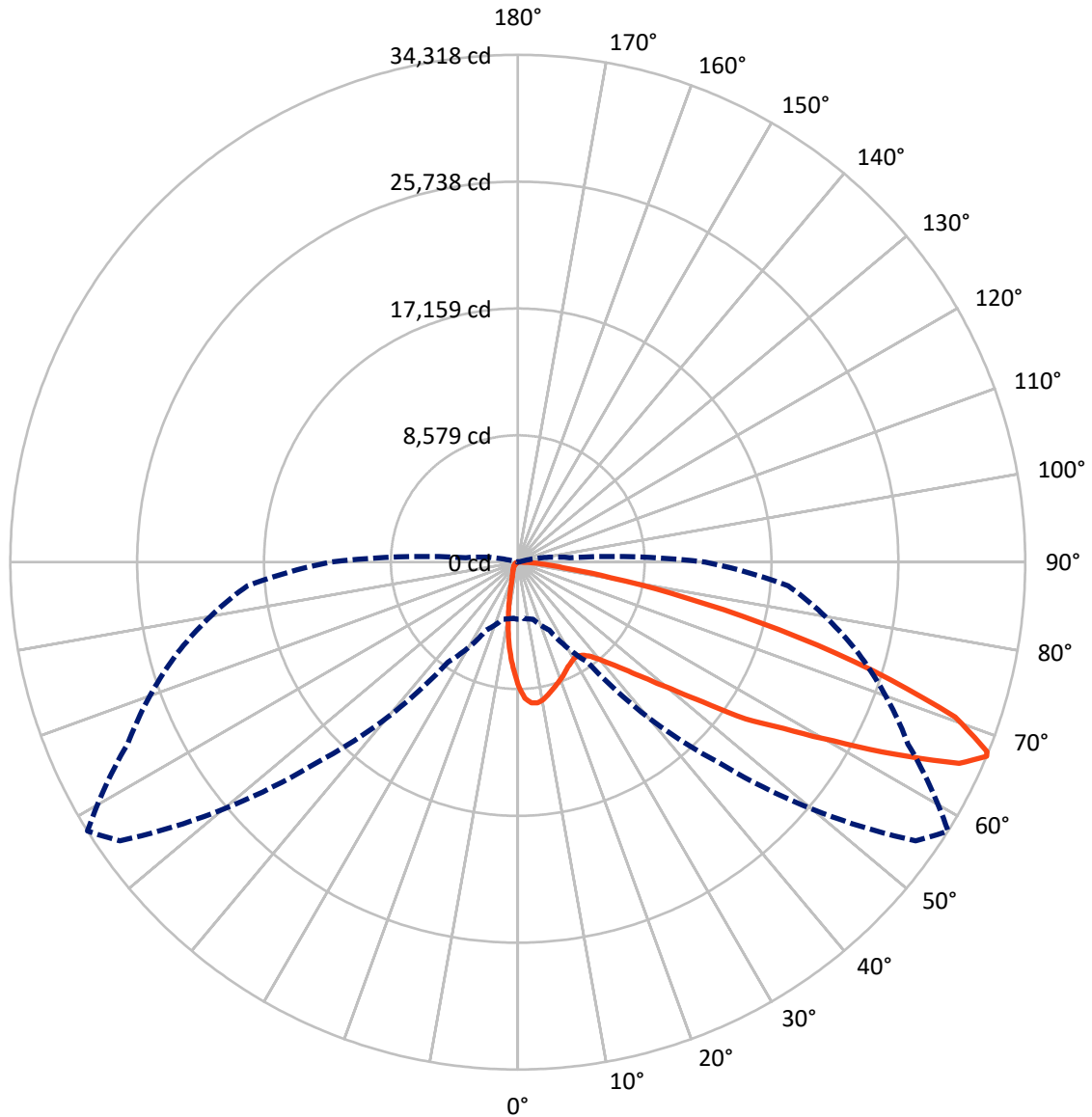
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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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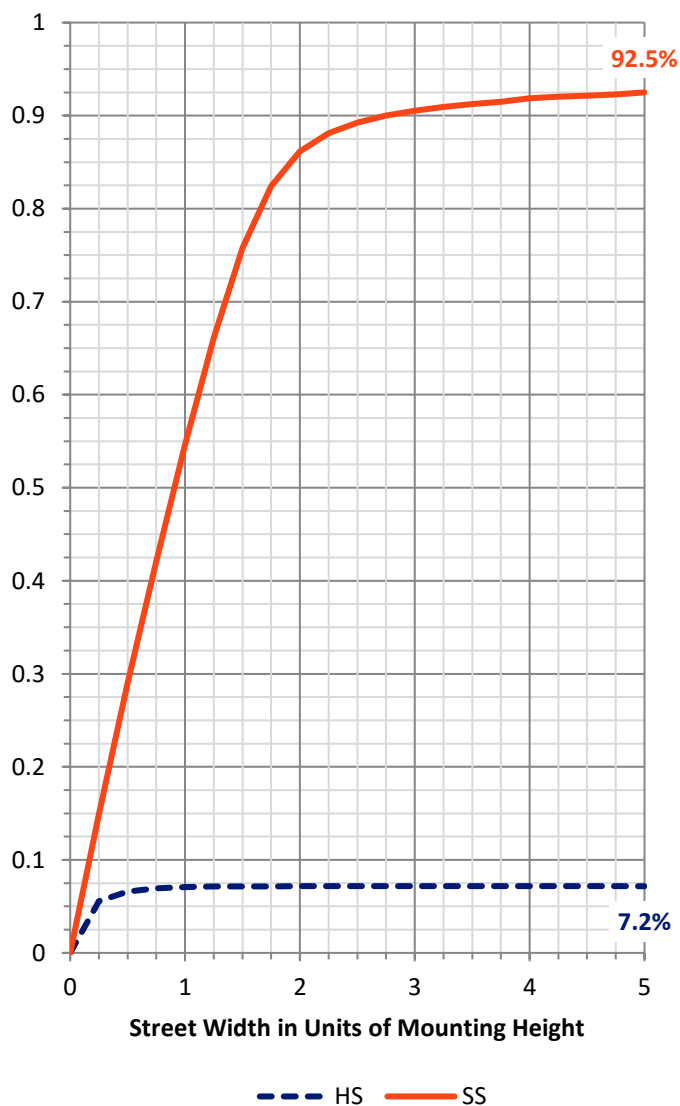
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2293.9	0.0	2293.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29493.1	0.0	29493.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	31787.0	0.0	31787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.8	2.2
10°-20°	1476.8	4.6
20°-30°	2001.2	6.3
30°-40°	2775.5	8.7
40°-50°	4426.6	13.9
50°-60°	7651.8	24.1
60°-70°	8740.8	27.5
70°-80°	3644.1	11.5
80°-90°	386.4	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°	31787.0	100.0
0°-180°	31787.0	100.0

Coefficient of Utilization



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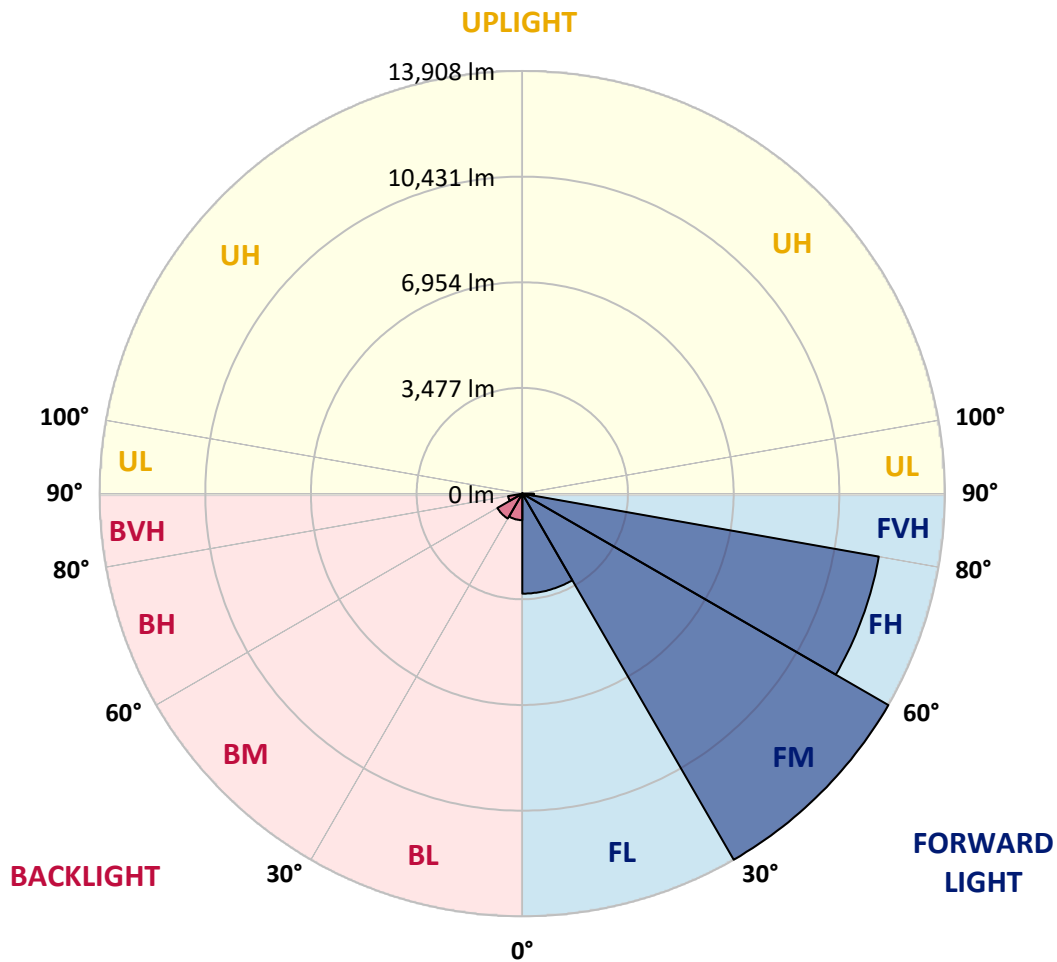
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3290.7	10.4			
FM (30°-60°)	13908.1	43.8			
FH (60°-80°)	11910.6	37.5			G4/12000
FVH (80°-90°)	383.6	1.2			G3/500
BL (0°-30°)	871.1	2.7	B2/1000		
BM (30°-60°)	945.8	3.0	B1/1000		
BH (60°-80°)	474.2	1.5	B1/500		G1/500
BVH (80°-90°)	2.8	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°	8426.4	8426.4	8426.4	8426.4	8426.4	8426.4	8426.4	8426.4	8426.4	8426.4	8426.4
2.5°	9779.5	9794.4	9739.2	9694.6	9579.8	9456.6	9293.1	9206.0	9057.3	8800.3	8515.7
5°	10008.9	10028.0	10019.5	10008.9	9964.3	9845.4	9637.2	9560.7	9341.9	8923.5	8409.4
7.5°	9499.1	9569.2	9577.7	9660.6	9739.2	9749.8	9671.2	9613.8	9412.0	8921.4	8220.4
10°	8823.7	8870.4	8938.4	9033.9	9223.0	9380.2	9456.6	9448.2	9331.3	8855.5	7999.5
12.5°	8141.8	8167.3	8271.4	8434.9	8666.5	8934.1	9138.0	9178.4	9180.5	8776.9	7814.7
15°	7555.5	7544.9	7625.6	7814.7	8139.7	8475.3	8840.6	8904.4	9006.3	8700.5	7642.6
17.5°	7054.3	7109.5	7122.2	7330.4	7629.9	8065.3	8530.5	8643.1	8847.0	8634.6	7500.3
20°	6744.1	6773.9	6801.5	6918.3	7188.1	7646.9	8239.5	8394.6	8698.3	8575.1	7341.0
22.5°	6652.8	6671.9	6648.5	6684.7	6875.8	7283.7	7923.0	8129.1	8556.0	8519.9	7211.4
25°	6722.9	6742.0	6686.8	6644.3	6710.1	6988.4	7617.1	7867.8	8441.3	8509.3	7113.7
27.5°	6892.8	6928.9	6852.5	6776.0	6737.8	6829.1	7377.1	7668.1	8362.7	8560.3	7069.1
30°	7158.3	7179.6	7122.2	7028.8	6941.7	6850.3	7251.8	7530.1	8341.5	8679.2	7064.9
32.5°	7447.2	7491.8	7460.0	7398.4	7285.8	7069.1	7287.9	7534.3	8392.5	8851.3	7118.0
35°	7804.1	7855.0	7884.8	7872.0	7727.6	7457.8	7517.3	7725.5	8528.4	9167.8	7262.4
37.5°	8154.6	8199.2	8367.0	8424.3	8296.9	8042.0	7963.4	8101.4	8827.9	9582.0	7523.7
40°	8556.0	8615.5	8851.3	9070.1	9008.5	8740.8	8596.4	8711.1	9286.7	10206.5	8018.6
42.5°	8940.5	9046.7	9405.7	9792.3	9849.6	9550.1	9454.5	9492.8	9966.4	11105.0	8709.0
45°	9486.4	9586.2	10049.3	10573.9	10843.7	10610.1	10512.3	10506.0	10898.9	12368.8	9828.4
47.5°	10274.4	10363.7	10909.6	11427.8	11907.9	11939.8	11755.0	11818.7	12071.5	13847.2	11200.6
50°	11240.9	11451.2	11810.2	12349.7	12991.2	13509.5	13566.8	13481.9	13698.5	15559.3	12848.9
52.5°	12645.0	12725.7	13054.9	13498.9	14250.8	15130.2	15812.1	15695.2	15627.3	17190.6	14514.2
55°	13692.2	13800.5	14312.4	14922.0	16024.5	17184.2	18662.6	18703.0	17844.9	18758.2	16143.4
57.5°	13375.7	13541.4	14316.7	15542.3	17965.9	20085.8	21186.1	21213.7	19896.8	20281.2	17982.9
60°	11750.7	11829.3	12940.2	14575.8	18131.6	23229.5	24765.3	24542.3	21984.8	21984.8	19607.9
62.5°	8333.0	8456.2	9356.8	11763.5	16375.0	24321.3	29051.8	28590.9	24860.9	23614.0	20576.5
65°	5325.2	5206.3	5803.1	7426.0	12198.9	22709.1	32783.9	32811.5	27567.0	24266.1	20047.6
67°	3857.4	3810.7	3982.8	5076.7	8271.4	19089.6	32862.5	34317.5	29121.9	23854.0	18356.8
67.5°	3528.2	3564.3	3689.6	4579.6	7515.2	17371.2	32505.6	34228.3	29472.4	23605.5	17745.0
70°	2674.3	2612.7	2748.6	3239.3	4505.3	10958.4	27962.1	31392.6	29036.9	21139.4	14178.6
72.5°	1966.9	1960.6	2149.6	2648.8	3468.7	5837.1	20990.7	25171.0	23722.3	16096.7	8927.7
75°	1327.6	1387.1	1688.7	2213.3	3143.7	3785.2	14310.3	18261.2	16468.4	9140.2	3649.3
77.5°	756.2	760.4	1087.6	1777.9	2823.0	3046.0	8479.5	11633.9	8717.4	3039.6	1083.3
80°	327.1	359.0	539.5	1291.5	2340.8	2697.7	4862.1	6393.6	3526.1	643.6	350.5
82.5°	121.1	142.3	237.9	794.4	1707.8	2221.8	2937.7	3052.4	1195.9	227.3	218.8
85°	0.0	4.2	87.1	371.7	890.0	992.0	1962.7	1809.8	528.9	108.3	142.3
87.5°	0.0	0.0	0.0	38.2	116.8	369.6	609.6	679.7	127.4	38.2	34.0
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°	8426.4	8426.4	8426.4	8426.4	8426.4	8426.4	8426.4	8426.4	8426.4	8426.4	8426.4
2.5°	8362.7	8224.6	7878.4	7532.2	7275.2	7060.6	6737.8	6561.5	6468.0	6329.9	6338.4
5°	8152.4	7872.0	7262.4	6631.5	6121.8	5624.7	5030.0	4789.9	4588.1	4473.4	4397.0
7.5°	7840.2	7426.0	6523.2	5682.1	4898.3	4029.5	3377.4	2941.9	2648.8	2540.5	2436.4
10°	7498.2	6948.0	5773.4	4607.2	3519.7	2623.3	2071.0	1671.7	1529.4	1397.7	1410.4
12.5°	7181.7	6512.6	5085.2	3636.5	2466.1	1667.4	1300.0	1136.4	1089.7	1074.8	1074.8
15°	6922.6	6096.3	4346.0	2733.8	1690.8	1198.0	1040.8	996.2	979.2	975.0	975.0
17.5°	6646.4	5701.2	3679.0	2020.1	1229.9	1002.6	949.5	919.8	913.4	909.1	909.1
20°	6400.0	5304.0	3046.0	1503.9	994.1	902.8	868.8	849.7	843.3	839.0	841.2
22.5°	6166.4	4951.4	2451.3	1136.4	875.1	822.0	788.1	768.9	756.2	745.6	747.7
25°	5958.2	4611.5	1971.2	930.4	788.1	741.3	707.3	679.7	652.1	639.4	637.2
27.5°	5811.6	4314.1	1535.7	796.6	709.5	658.5	616.0	582.0	545.9	526.8	522.5
30°	5690.6	4012.5	1215.0	703.1	630.9	582.0	528.9	480.1	441.8	422.7	414.2
32.5°	5612.0	3725.7	958.0	626.6	565.0	505.5	446.1	397.2	354.7	335.6	331.4
35°	5599.2	3485.7	783.8	562.9	505.5	441.8	380.2	327.1	291.0	271.9	267.6
37.5°	5690.6	3300.9	656.4	511.9	456.7	386.6	318.6	269.8	237.9	223.0	220.9
40°	5934.8	3184.1	569.3	469.4	412.1	335.6	271.9	229.4	197.5	182.7	182.7
42.5°	6400.0	3188.3	511.9	429.1	367.5	286.8	231.5	191.2	163.6	150.8	146.6
45°	7126.5	3332.8	463.1	388.7	325.0	248.5	197.5	157.2	129.6	119.0	119.0
47.5°	8099.3	3619.5	420.6	348.4	286.8	212.4	167.8	127.4	104.1	93.5	93.5
50°	9371.7	4080.5	384.5	314.4	254.9	182.7	135.9	104.1	80.7	72.2	70.1
52.5°	10701.4	4649.7	342.0	284.6	218.8	155.1	110.5	80.7	61.6	55.2	53.1
55°	12169.2	5206.3	301.6	254.9	178.4	129.6	87.1	63.7	44.6	38.2	38.2
57.5°	13649.7	5752.2	252.8	212.4	140.2	95.6	68.0	46.7	29.7	23.4	23.4
60°	14902.9	5928.5	214.5	172.1	106.2	68.0	48.9	29.7	17.0	10.6	10.6
62.5°	15075.0	5333.7	180.6	131.7	76.5	46.7	25.5	17.0	6.4	4.2	4.2
65°	14140.4	4333.2	150.8	99.8	51.0	23.4	10.6	6.4	2.1	0.0	0.0
67°	12670.5	3513.3	123.2	74.3	36.1	14.9	6.4	2.1	0.0	0.0	0.0
67.5°	12294.5	3349.8	119.0	70.1	31.9	12.7	4.2	2.1	0.0	0.0	0.0
70°	9647.8	2508.6	85.0	42.5	19.1	8.5	0.0	0.0	0.0	0.0	0.0
72.5°	5996.4	1418.9	61.6	25.5	12.7	4.2	0.0	0.0	0.0	0.0	0.0
75°	2266.5	497.0	42.5	17.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	705.2	189.0	25.5	12.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	237.9	72.2	17.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	146.6	29.7	10.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	91.3	12.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.0	4.2	2.1	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)