

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: P459244

Luminaire Tested: **GALN-SA7B-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30216 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

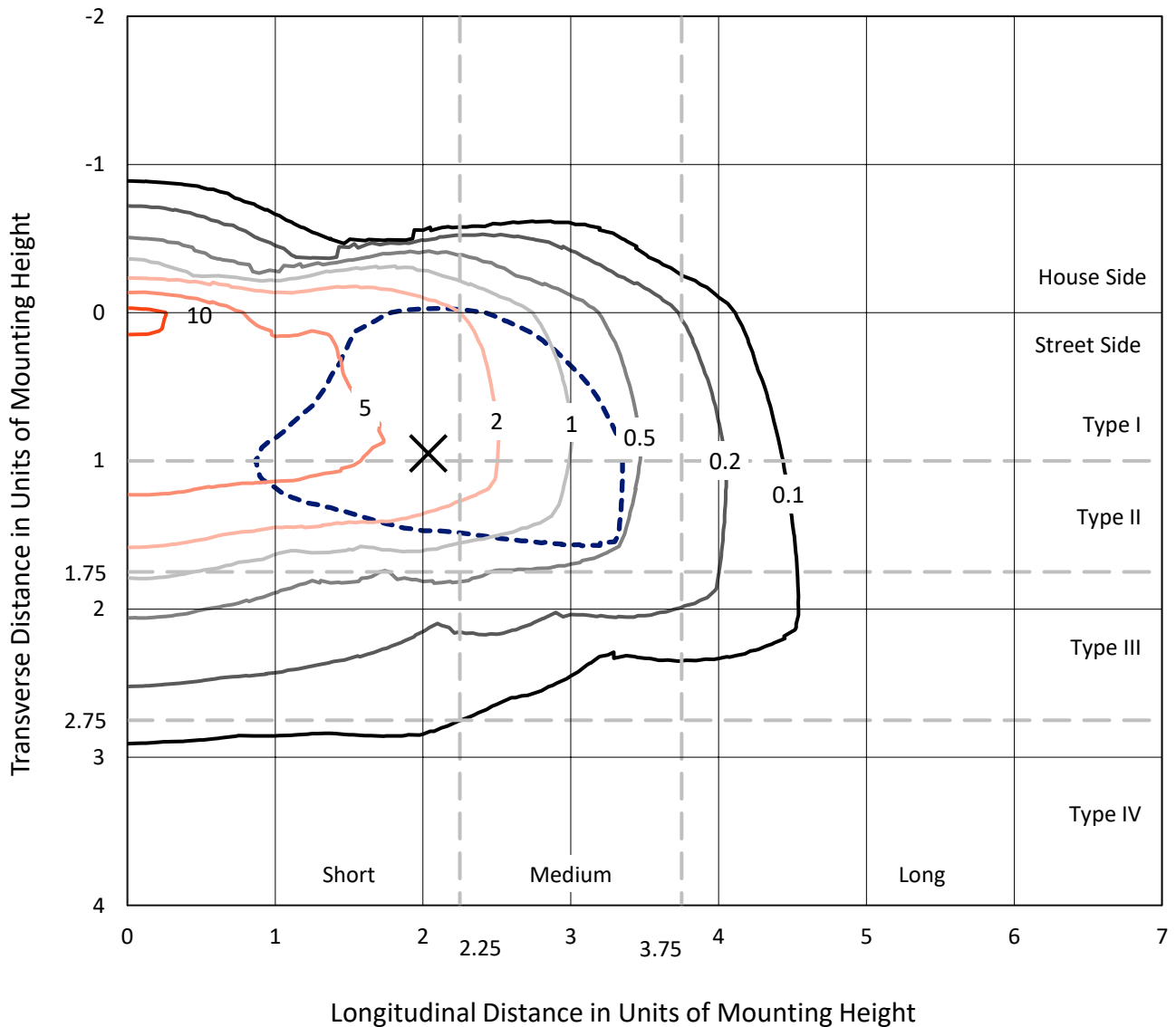
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

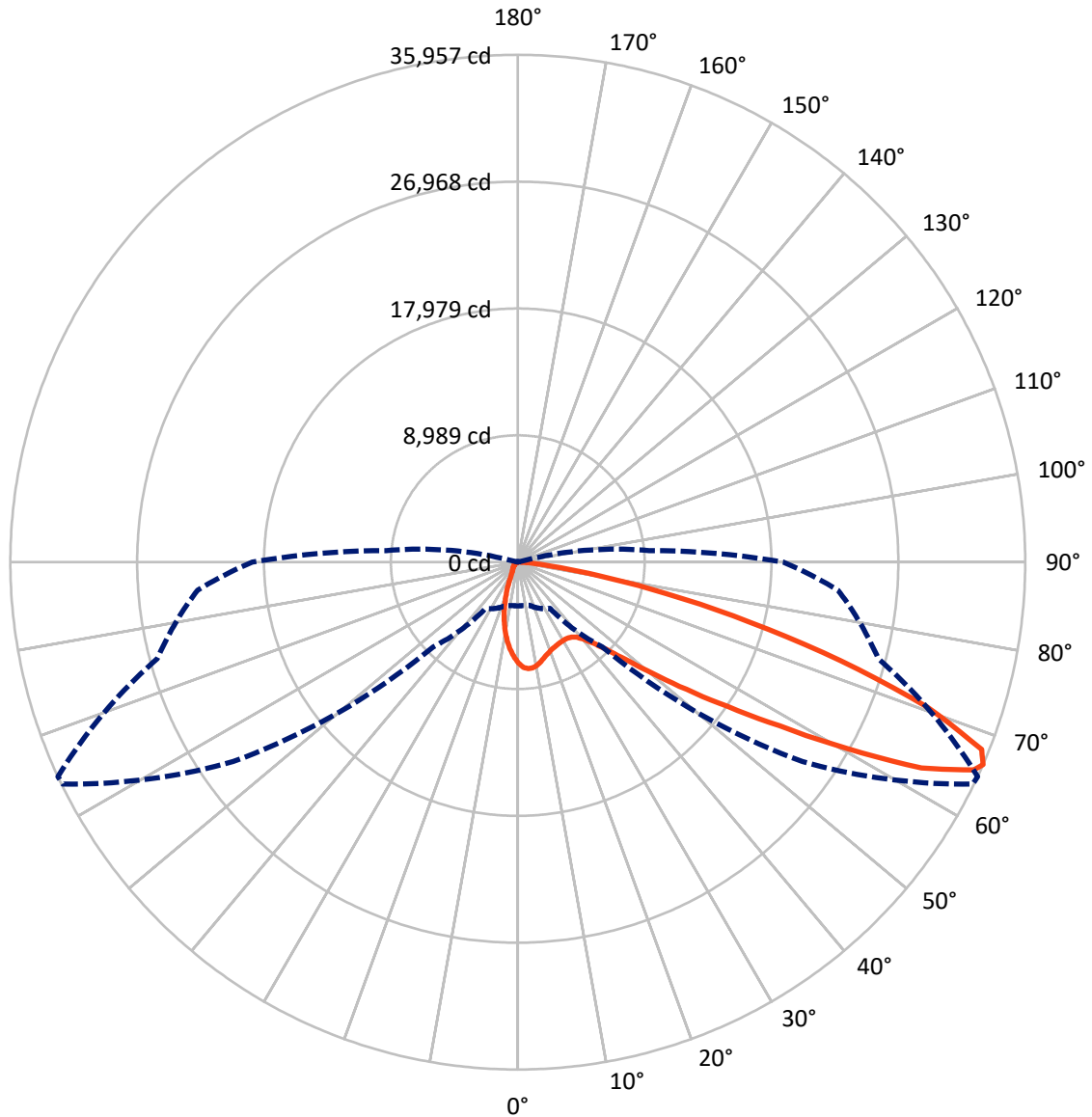
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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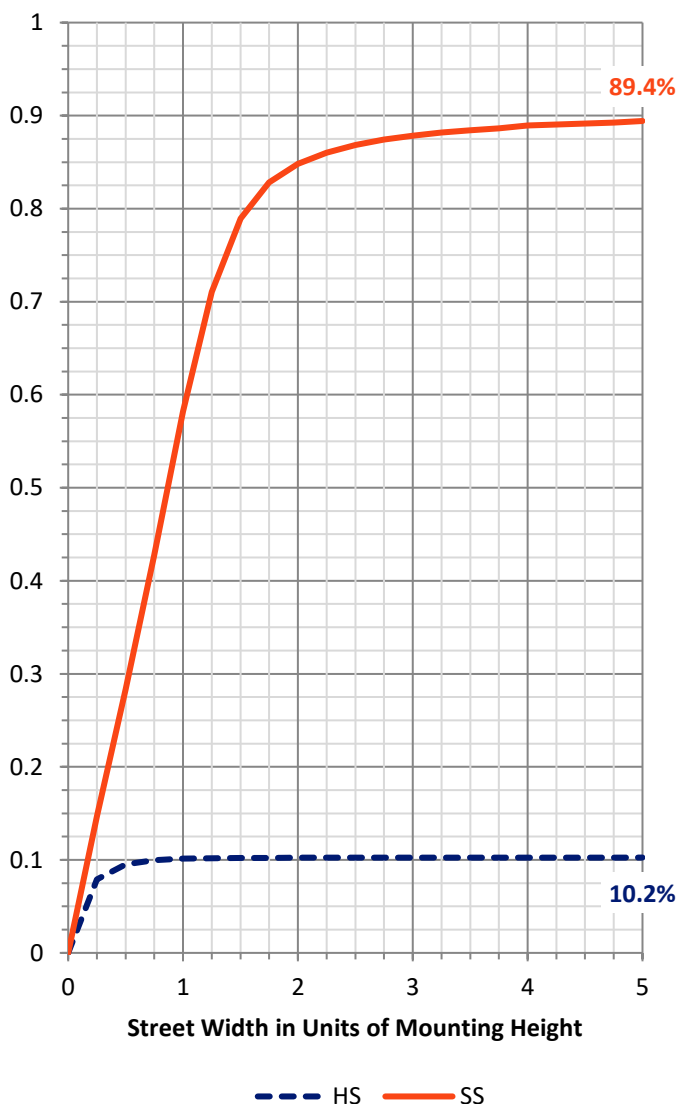
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3124.8	0.0	3124.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	27091.2	0.0	27091.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	30216.0	0.0	30216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.0	1.9
10°-20°	1276.8	4.2
20°-30°	1829.1	6.1
30°-40°	2671.5	8.8
40°-50°	4479.7	14.8
50°-60°	7475.9	24.7
60°-70°	7935.4	26.3
70°-80°	3593.9	11.9
80°-90°	367.7	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°	30216.0	100.0
0°-180°	30216.0	100.0

Coefficient of Utilization



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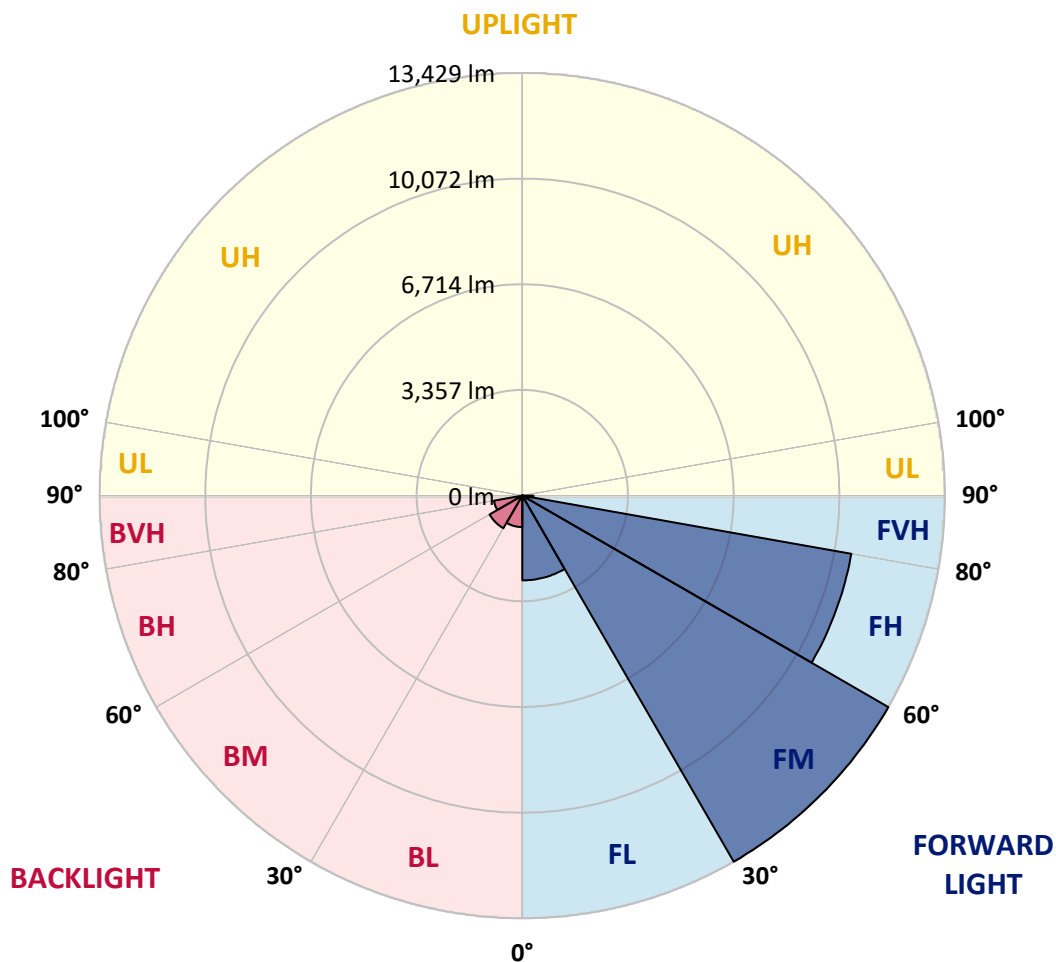
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2692.4	8.9			
FM (30°-60°)	13428.7	44.4			
FH (60°-80°)	10614.2	35.1			G4/12000
FVH (80°-90°)	356.0	1.2			G3/500
BL (0°-30°)	999.6	3.3	B2/1000		
BM (30°-60°)	1198.4	4.0	B2/2500		
BH (60°-80°)	915.1	3.0	B2/1000		G2/1000
BVH (80°-90°)	11.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3
2.5°	7551.0	7559.2	7569.4	7583.7	7593.9	7563.3	7520.4	7471.5	7461.2	7357.2	7230.6
5°	7147.0	7159.2	7249.0	7298.0	7408.2	7508.2	7571.5	7579.6	7575.5	7477.6	7275.5
7.5°	6571.4	6606.1	6693.9	6779.6	6985.7	7175.5	7400.0	7557.2	7567.4	7540.8	7289.8
10°	6104.1	6126.5	6171.4	6340.8	6512.3	6802.1	7116.3	7412.3	7436.8	7542.9	7277.6
12.5°	5738.8	5771.4	5826.5	5957.2	6163.3	6436.8	6793.9	7191.9	7242.9	7504.1	7242.9
15°	5483.7	5500.0	5555.1	5683.7	5883.7	6136.8	6498.0	6961.2	7006.1	7453.1	7236.8
17.5°	5363.3	5381.6	5420.4	5522.5	5687.8	5922.5	6275.5	6775.5	6832.7	7420.4	7259.2
20°	5395.9	5412.3	5414.3	5467.4	5579.6	5777.6	6112.3	6602.1	6675.5	7400.0	7295.9
22.5°	5581.6	5583.7	5559.2	5534.7	5573.5	5716.3	6012.3	6491.9	6567.4	7395.9	7338.8
25°	5859.2	5865.3	5824.5	5738.8	5661.2	5734.7	5989.8	6420.4	6487.8	7385.7	7365.3
27.5°	6242.9	6240.8	6228.6	6085.7	5865.3	5816.3	6008.2	6381.7	6438.8	7357.2	7375.5
30°	6779.6	6763.3	6736.8	6575.5	6238.8	6014.3	6085.7	6357.2	6410.2	7316.3	7349.0
32.5°	7308.2	7369.4	7365.3	7212.3	6791.9	6367.4	6247.0	6389.8	6428.6	7289.8	7310.2
35°	7924.5	7922.5	8079.6	8022.5	7530.6	6818.4	6522.5	6498.0	6528.6	7308.2	7291.9
37.5°	8495.9	8549.0	8793.9	8853.1	8404.1	7455.1	6912.3	6730.6	6740.8	7432.7	7336.8
40°	9208.2	9310.2	9675.5	9873.5	9477.6	8400.0	7487.8	7157.2	7159.2	7738.8	7506.1
42.5°	10126.6	10287.8	10628.6	10959.2	10747.0	9518.4	8351.0	7832.7	7828.6	8277.6	7893.9
45°	11242.9	11355.1	11742.9	12267.4	12132.7	11079.6	9608.2	8879.6	8826.6	9161.3	8581.7
47.5°	12206.2	12359.2	12753.1	13351.1	13963.3	12985.8	11110.2	10318.4	10283.7	10567.4	9761.3
50°	12626.6	12761.3	13175.6	14014.3	15498.0	15487.8	13347.0	12418.4	12359.2	12512.3	11585.7
52.5°	12165.3	12291.9	12710.2	13755.1	16220.5	18536.8	16587.8	15053.1	14981.7	14785.8	13765.3
55°	10585.7	10689.8	11308.2	12508.2	15942.9	20569.5	21053.1	18308.2	18030.7	17269.4	16232.7
57.5°	8428.6	8375.5	8759.2	10153.1	14314.3	21251.1	25636.8	22363.3	21867.4	19416.4	18320.5
60°	5840.8	6004.1	6159.2	7077.6	10763.3	20069.4	28487.8	27461.3	26808.2	21528.6	20320.5
62.5°	4293.9	4402.1	4504.1	4928.6	6767.4	16024.5	28991.9	32698.1	32118.5	23771.5	22228.6
65°	3395.9	3404.1	3444.9	3863.3	4459.2	10420.4	26569.5	35651.1	35502.1	25930.7	23002.1
66°	3093.9	3095.9	3159.2	3608.2	4002.1	8485.7	24628.6	35875.6	35957.3	26449.1	22775.6
67.5°	2704.1	2695.9	2787.8	3242.9	3644.9	6118.4	21155.2	34965.4	35449.1	26847.0	21961.3
70°	2095.9	2085.7	2198.0	2720.4	3357.2	4081.6	14061.3	30022.5	30802.1	26032.7	19430.7
72.5°	1395.9	1404.1	1595.9	2146.9	3204.1	3593.9	8459.2	22838.8	23940.9	21498.0	15285.8
75°	814.3	828.6	1046.9	1595.9	2781.6	3426.5	4787.8	16285.8	16989.8	14844.9	9522.5
77.5°	426.5	432.7	585.7	1053.1	2132.7	3181.6	3189.8	10404.1	10734.7	7214.3	3769.4
80°	226.5	220.4	314.3	634.7	1467.4	2793.9	2587.8	5508.2	5726.5	2142.9	953.1
82.5°	85.7	93.9	167.3	416.3	867.3	2006.1	2228.6	2434.7	2359.2	471.4	400.0
85°	16.3	20.4	71.4	246.9	436.7	838.8	1642.9	1193.9	1106.1	177.6	230.6
87.5°	2.0	4.1	20.4	59.2	63.3	283.7	485.7	330.6	285.7	65.3	95.9
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°	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3
2.5°	7169.4	7114.3	6930.6	6749.0	6563.3	6395.9	6281.7	6095.9	6049.0	5981.7	5942.9
5°	7155.1	7026.6	6673.5	6287.8	5928.6	5540.8	5244.9	4959.2	4806.1	4728.6	4700.0
7.5°	7114.3	6910.2	6359.2	5755.1	5179.6	4600.0	4095.9	3712.3	3465.3	3295.9	3181.6
10°	7032.7	6751.0	5993.9	5163.3	4293.9	3528.6	2889.8	2404.1	2028.6	1910.2	1914.3
12.5°	6949.0	6573.5	5585.7	4506.1	3428.6	2463.3	1785.7	1402.0	1222.5	1163.3	1151.0
15°	6871.4	6404.1	5185.7	3869.4	2553.1	1595.9	1151.0	1016.3	967.3	957.1	955.1
17.5°	6830.6	6247.0	4759.2	3140.8	1781.6	1083.7	922.5	885.7	871.4	861.2	857.1
20°	6795.9	6110.2	4351.0	2459.2	1218.4	887.8	826.5	791.8	767.3	757.1	751.0
22.5°	6771.4	5969.4	3928.6	1904.1	932.7	787.8	732.7	687.8	653.1	640.8	632.7
25°	6734.7	5814.3	3502.1	1391.8	785.7	700.0	636.7	583.7	538.8	516.3	512.2
27.5°	6681.7	5638.8	3034.7	1030.6	702.0	622.5	544.9	479.6	434.7	410.2	412.2
30°	6595.9	5455.1	2567.4	818.4	634.7	542.9	459.2	395.9	353.1	334.7	332.7
32.5°	6493.9	5232.7	2138.8	702.0	573.5	471.4	383.7	328.6	295.9	281.6	279.6
35°	6398.0	5008.2	1702.0	630.6	510.2	406.1	322.4	275.5	251.0	238.8	240.8
37.5°	6344.9	4808.2	1326.5	573.5	459.2	349.0	277.6	236.7	214.3	204.1	202.0
40°	6379.6	4644.9	1055.1	522.5	402.0	300.0	238.8	204.1	181.6	167.3	167.3
42.5°	6542.9	4573.5	851.0	473.5	349.0	259.2	208.2	175.5	151.0	136.7	138.8
45°	7040.8	4649.0	712.2	428.6	300.0	224.5	179.6	144.9	122.4	112.2	110.2
47.5°	7867.4	4932.7	616.3	381.6	257.1	191.8	151.0	120.4	98.0	89.8	87.8
50°	9312.3	5518.4	544.9	334.7	218.4	163.3	124.5	95.9	77.6	69.4	69.4
52.5°	11300.0	6795.9	493.9	281.6	183.7	138.8	102.0	77.6	61.2	55.1	53.1
55°	13377.6	8142.9	467.3	236.7	153.1	114.3	81.6	61.2	46.9	40.8	38.8
57.5°	15375.6	9200.0	436.7	191.8	122.4	87.8	63.3	46.9	32.7	28.6	26.5
60°	17291.9	10055.1	371.4	153.1	95.9	63.3	46.9	32.7	22.4	18.4	18.4
62.5°	19006.2	10553.1	291.8	122.4	73.5	44.9	30.6	24.5	16.3	12.2	12.2
65°	19206.2	9906.2	220.4	93.9	53.1	28.6	18.4	18.4	12.2	8.2	8.2
66°	18804.1	9357.2	193.9	85.7	46.9	24.5	16.3	14.3	10.2	6.1	6.1
67.5°	17906.2	8420.4	167.3	73.5	38.8	18.4	12.2	12.2	8.2	4.1	4.1
70°	15471.5	6877.6	132.7	55.1	28.6	14.3	8.2	8.2	6.1	4.1	4.1
72.5°	11791.9	5134.7	108.2	40.8	20.4	10.2	6.1	6.1	6.1	4.1	4.1
75°	7112.3	2765.3	83.7	30.6	18.4	8.2	4.1	6.1	8.2	6.1	4.1
77.5°	2620.4	940.8	65.3	24.5	14.3	8.2	4.1	4.1	8.2	6.1	6.1
80°	642.9	244.9	46.9	20.4	14.3	8.2	4.1	4.1	8.2	8.2	8.2
82.5°	298.0	104.1	32.7	18.4	14.3	8.2	4.1	4.1	6.1	8.2	8.2
85°	171.4	49.0	26.5	20.4	14.3	8.2	4.1	4.1	6.1	8.2	8.2
87.5°	69.4	24.5	24.5	20.4	16.3	10.2	4.1	4.1	4.1	6.1	6.1
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)