

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: P455609

Luminaire Tested: **GALN-SA6D-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33033 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 368
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

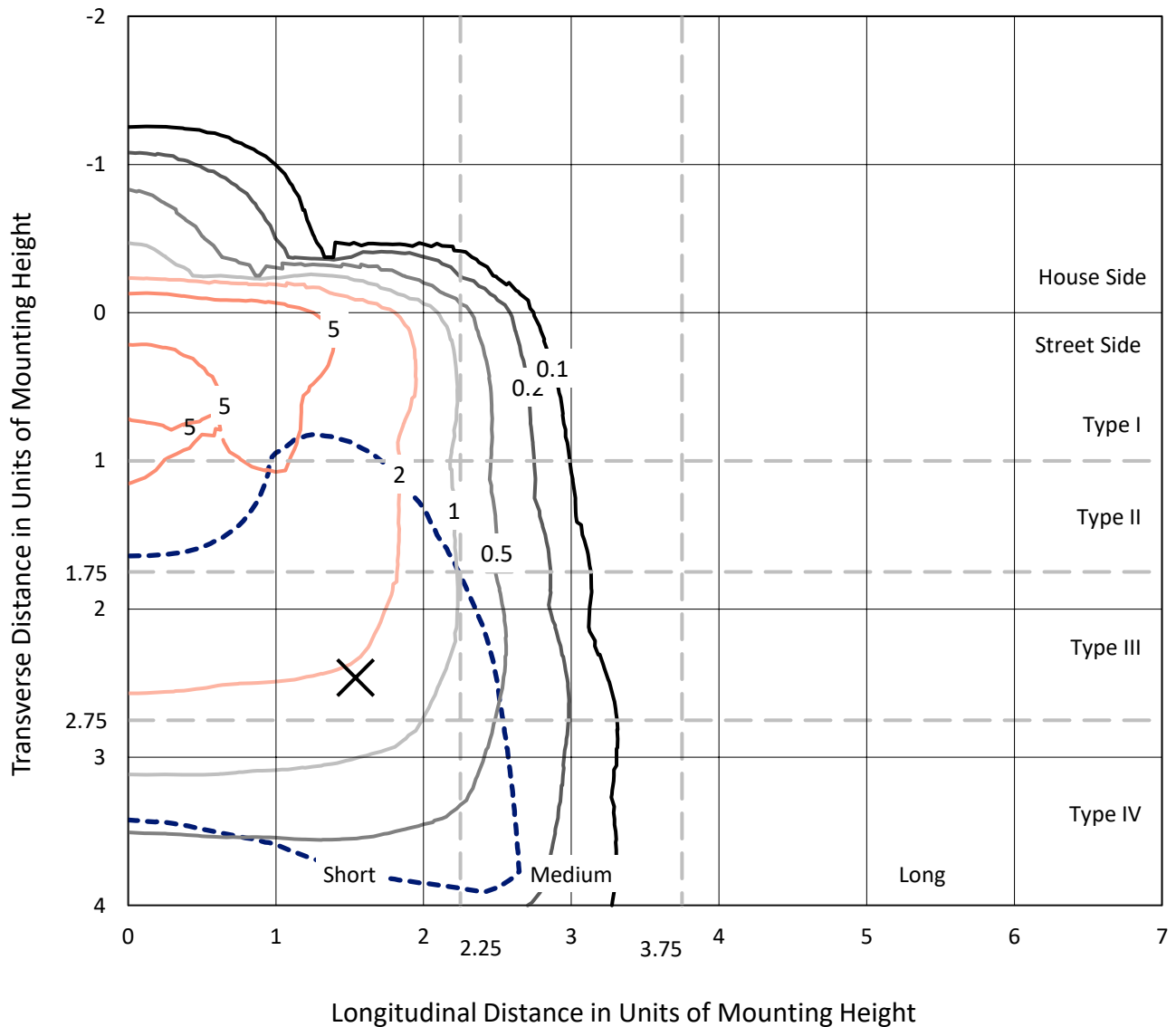




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Iso-Footcandle Lines of Horizontal Illumination

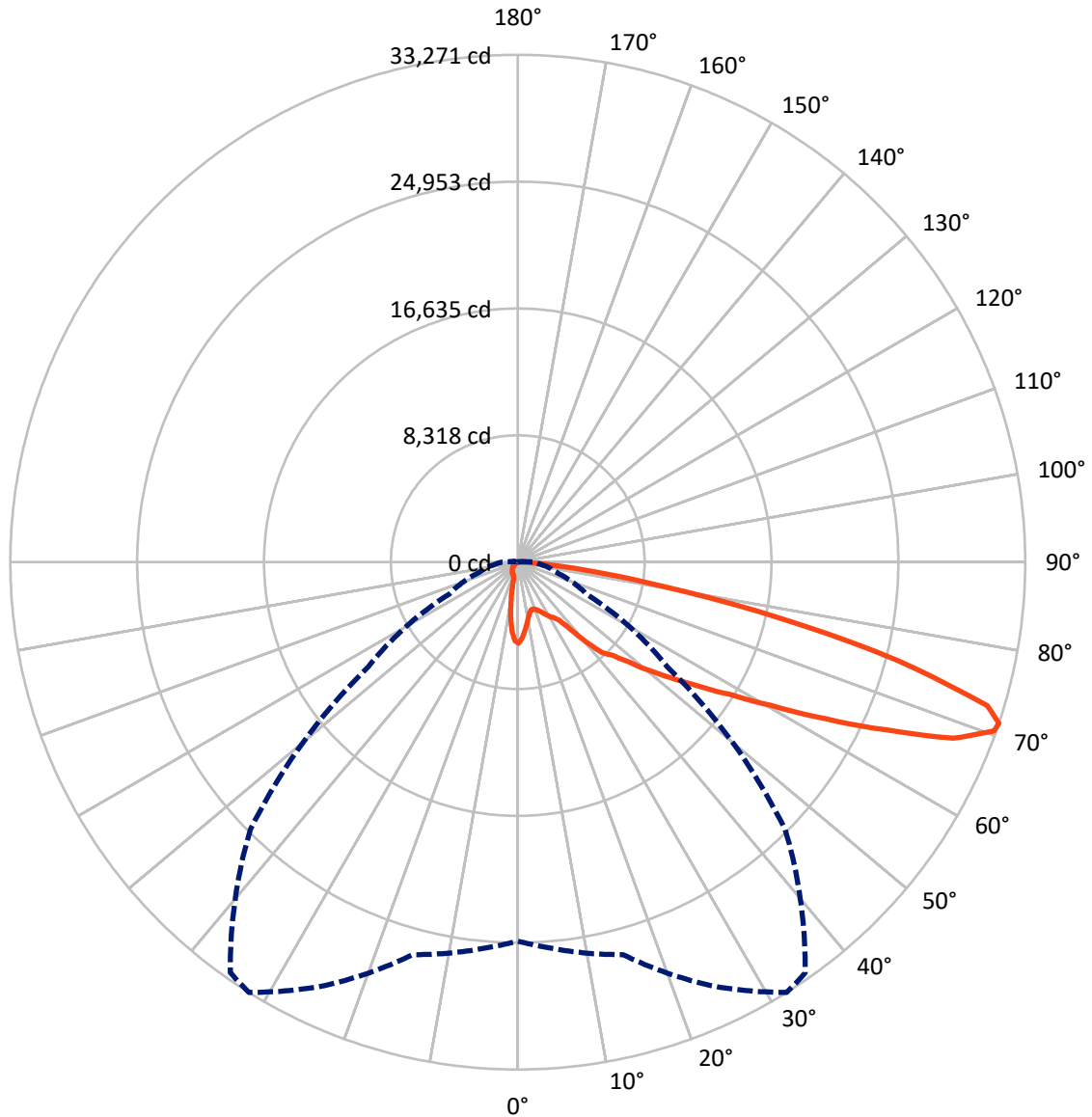
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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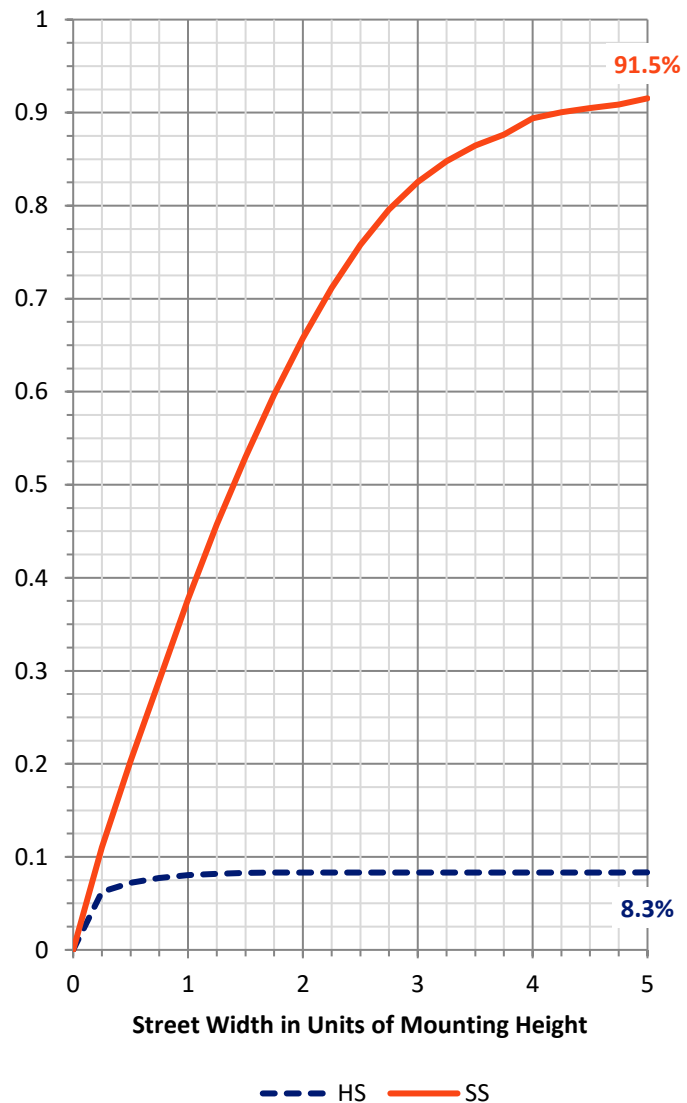
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2766.9	0.0	2766.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	30266.1	0.0	30266.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	33033.0	0.0	33033.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.0	1.3
10°-20°	937.5	2.8
20°-30°	1458.4	4.4
30°-40°	2429.7	7.4
40°-50°	4519.7	13.7
50°-60°	7256.6	22.0
60°-70°	9760.5	29.5
70°-80°	5791.0	17.5
80°-90°	447.6	1.4
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°	33033.0	100.0
0°-180°	33033.0	100.0



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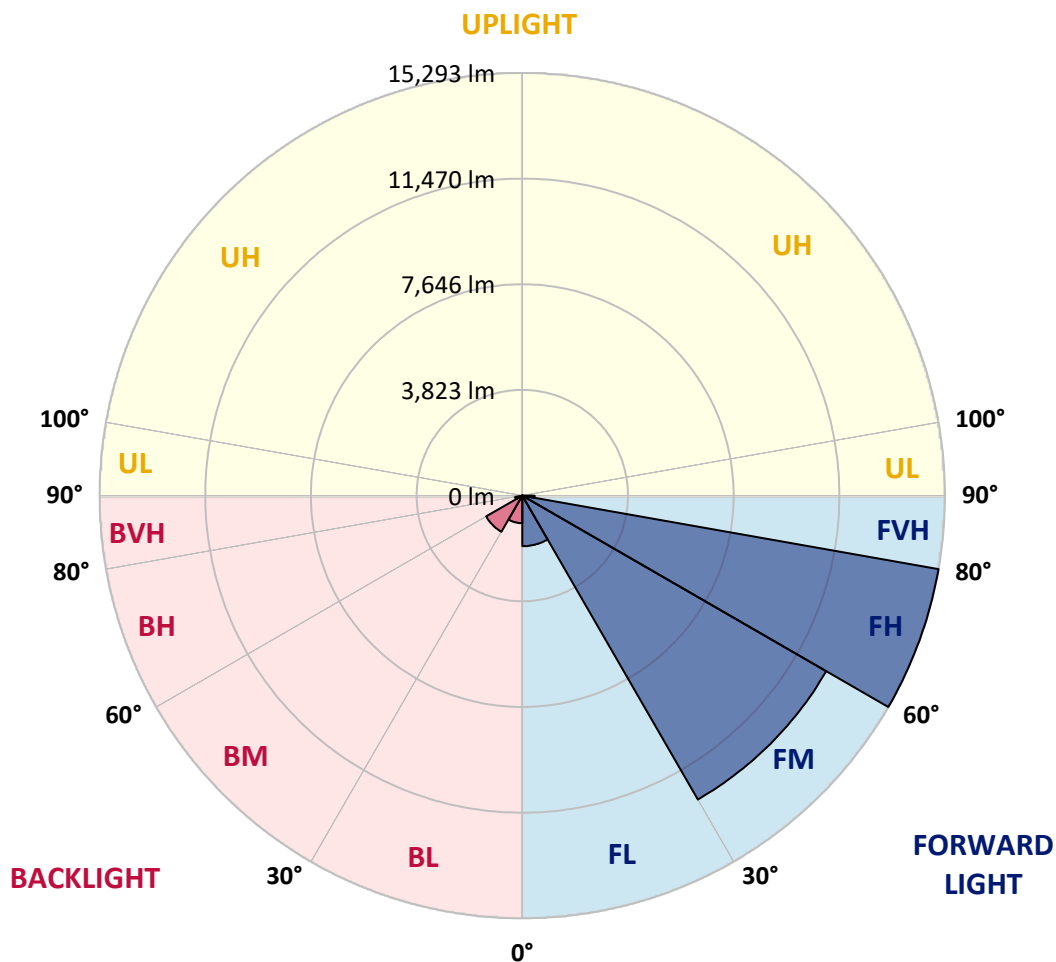
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1830.9	5.5			
FM	(30°-60°)	12696.7	38.4			
FH	(60°-80°)	15292.7	46.3			G5
FVH	(80°-90°)	445.9	1.3			G3/500
BL	(0°-30°)	997.0	3.0	B2/1000		
BM	(30°-60°)	1509.4	4.6	B2/2500		
BH	(60°-80°)	258.8	0.8	B1/500		G1/500
BVH	(80°-90°)	1.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5312.2	5312.2	5312.2	5312.2	5312.2	5312.2	5312.2	5312.2	5312.2	5312.2	5312.2
2.5°	4926.8	4977.5	4969.9	4987.7	5030.8	5048.5	5096.7	5149.9	5223.5	5274.2	5307.2
5°	4412.1	4450.1	4455.2	4543.9	4587.0	4635.2	4777.2	4931.9	5104.3	5241.2	5332.5
7.5°	3861.8	3882.1	3922.7	4039.3	4148.4	4196.5	4412.1	4680.8	4952.2	5208.3	5373.1
10°	3407.9	3430.8	3504.3	3628.5	3730.0	3793.4	4092.6	4429.8	4810.2	5190.5	5431.4
12.5°	3149.3	3162.0	3189.9	3301.4	3430.8	3499.2	3821.3	4206.7	4696.1	5198.1	5530.3
15°	3131.5	3126.5	3093.5	3139.2	3255.8	3326.8	3641.2	4054.5	4594.6	5223.5	5646.9
17.5°	3225.4	3212.7	3134.1	3134.1	3230.4	3288.8	3565.1	3973.4	4543.9	5281.8	5811.7
20°	3369.9	3349.6	3220.3	3210.2	3304.0	3364.8	3610.8	3978.5	4554.1	5390.8	6032.4
22.5°	3552.5	3529.6	3334.4	3339.5	3440.9	3501.8	3742.6	4069.7	4617.4	5525.2	6268.2
25°	3790.8	3765.5	3534.7	3524.6	3631.1	3684.3	3937.9	4232.0	4706.2	5692.6	6577.5
27.5°	4107.8	4054.5	3778.1	3762.9	3877.0	3945.5	4173.7	4450.1	4863.4	5923.3	6993.4
30°	4369.0	4310.6	4046.9	4006.4	4128.1	4181.3	4417.1	4744.2	5172.8	6326.5	7569.0
32.5°	4711.3	4625.1	4315.7	4209.2	4338.5	4407.0	4769.6	5291.9	5631.7	6752.5	8253.6
35°	5482.1	5428.9	5051.0	4678.3	4670.7	4756.9	5289.4	5844.7	6103.4	7416.8	9186.7
37.5°	6585.1	6547.1	6146.5	5646.9	5502.4	5461.8	5920.8	6453.3	6856.4	8329.7	10272.0
40°	7865.6	7776.9	7409.2	6985.8	6798.1	6678.9	6666.3	7358.5	7840.3	9569.6	11402.9
42.5°	8783.6	8621.3	8175.0	8144.6	8104.0	7979.7	7619.7	8682.1	9110.7	10903.4	12612.4
45°	9747.1	9501.1	8836.8	8722.7	8707.5	8699.9	9059.9	10249.2	10495.1	12348.7	13854.9
47.5°	10495.1	10299.9	9754.7	9704.0	9767.4	9939.8	10964.2	11912.6	11861.9	13636.8	14897.0
50°	11491.6	11344.6	10738.5	10834.9	11162.0	11443.5	13111.9	13725.6	12985.2	14651.1	15655.2
52.5°	12668.2	12396.9	11834.0	12095.1	12597.2	13066.3	15391.5	15312.9	13773.7	15414.3	16220.7
55°	13687.5	13494.8	13302.1	13573.4	14324.0	14909.7	17450.5	16502.1	14346.8	16028.0	16469.2
57.5°	15411.8	15366.1	15168.4	15444.7	16355.1	16963.6	19293.9	17425.1	14714.5	16347.4	16177.6
60°	17962.7	17889.1	17521.5	17873.9	19060.6	20016.6	20992.8	18254.3	14798.2	16223.2	15338.2
62.5°	21030.8	20779.8	20465.4	20985.2	22613.1	23034.0	22592.8	18746.2	14486.3	15234.3	13314.8
65°	23896.1	23637.5	23645.1	24740.5	26512.9	26799.5	24459.0	18672.7	13573.4	12756.9	9820.6
67.5°	26089.5	26046.4	26355.7	28493.3	30810.9	30613.1	26127.5	17572.2	10867.9	8268.8	5218.4
70°	26201.0	26284.7	27172.2	30780.5	33133.6	32819.1	25985.5	14283.4	6775.3	3803.5	2056.4
71°	24852.1	25415.0	26642.3	30709.5	33270.5	32862.2	24788.7	11963.3	4969.9	2652.3	1483.4
72.5°	21177.9	21474.6	24126.9	28901.5	32187.8	31315.5	21753.5	8385.5	3182.3	1622.8	852.0
75°	11664.1	12394.3	16157.3	22673.9	25744.6	24978.9	14176.9	3983.5	1587.3	887.5	352.5
77.5°	5553.1	5411.1	7883.4	13484.7	17455.5	17415.0	7143.0	1769.9	925.5	601.0	177.5
80°	1587.3	1785.1	3017.4	6410.2	9691.3	9797.8	2743.6	854.5	641.5	469.1	91.3
82.5°	479.2	489.4	1108.1	2834.9	4820.3	4543.9	1029.5	436.1	461.5	372.7	53.2
85°	83.7	104.0	327.1	999.1	1838.4	1394.6	258.6	207.9	304.3	246.0	30.4
87.5°	5.1	7.6	109.0	114.1	162.3	93.8	45.6	30.4	65.9	65.9	17.7
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°	5312.2	5312.2	5312.2	5312.2	5312.2	5312.2	5312.2	5312.2	5312.2	5312.2	5312.2
2.5°	5330.0	5345.2	5335.0	5312.2	5274.2	5228.5	5167.7	5117.0	5073.9	5051.0	5078.9
5°	5362.9	5383.2	5332.5	5218.4	5046.0	4858.3	4645.3	4480.5	4351.2	4310.6	4295.4
7.5°	5413.6	5426.3	5289.4	5035.8	4670.7	4227.0	3839.0	3511.9	3258.3	3182.3	3070.7
10°	5479.6	5472.0	5213.3	4741.7	4100.2	3433.3	2832.3	2386.1	2048.8	1927.1	1917.0
12.5°	5581.0	5540.4	5117.0	4341.1	3420.6	2548.3	1805.4	1412.4	1199.4	1128.4	1113.2
15°	5707.8	5611.4	4964.8	3872.0	2619.3	1645.6	1113.2	994.0	966.1	961.0	955.9
17.5°	5857.4	5705.3	4764.5	3296.4	1840.9	1067.5	930.6	928.1	930.6	925.5	923.0
20°	6060.2	5804.1	4526.2	2614.3	1217.1	900.2	887.5	887.5	890.0	887.5	887.5
22.5°	6275.8	5920.8	4232.0	1995.6	917.9	854.5	852.0	857.1	862.1	859.6	859.6
25°	6542.0	6072.9	3844.1	1366.7	821.6	816.5	819.0	829.2	839.3	841.8	839.3
27.5°	6927.4	6260.6	3428.2	940.7	753.1	758.2	783.5	808.9	824.1	826.6	826.6
30°	7361.0	6468.5	2885.6	763.2	697.3	697.3	727.7	775.9	808.9	813.9	816.5
32.5°	7918.9	6709.4	2284.6	687.2	644.1	639.0	666.9	725.2	786.1	803.8	803.8
35°	8608.6	6993.4	1698.9	639.0	606.0	593.3	608.6	656.7	735.3	786.1	791.1
37.5°	9417.5	7262.2	1242.5	595.9	570.5	552.8	562.9	601.0	664.3	740.4	760.7
40°	10165.5	7500.5	928.1	560.4	535.0	522.3	530.0	547.7	601.0	672.0	684.6
42.5°	10982.0	7685.6	737.9	522.3	499.5	494.5	494.5	502.1	537.6	578.1	580.7
45°	11795.9	7751.5	618.7	476.7	461.5	466.6	464.0	459.0	474.2	469.1	469.1
47.5°	12376.6	7672.9	512.2	433.6	433.6	441.2	428.5	410.8	403.2	372.7	375.3
50°	12774.7	7386.4	420.9	382.9	403.2	413.3	388.0	360.1	332.2	299.2	291.6
52.5°	12939.5	6876.7	344.9	317.0	357.5	370.2	339.8	306.8	263.7	235.8	228.2
55°	12833.0	6247.9	286.5	258.6	301.7	317.0	286.5	248.5	200.3	169.9	164.8
57.5°	12363.9	5497.3	243.4	205.4	240.9	251.0	230.7	190.2	142.0	111.6	111.6
60°	11552.5	4721.4	197.8	162.3	180.0	195.2	175.0	136.9	96.4	68.5	63.4
62.5°	9906.9	3833.9	159.7	126.8	126.8	139.5	121.7	98.9	60.9	35.5	33.0
65°	7153.1	2629.5	126.8	93.8	91.3	91.3	76.1	65.9	35.5	15.2	10.1
67.5°	3887.2	1483.4	101.4	71.0	63.4	60.9	48.2	38.0	15.2	2.5	0.0
70°	1529.0	570.5	78.6	48.2	40.6	38.0	25.4	17.7	10.1	0.0	0.0
71°	1037.1	393.0	68.5	40.6	33.0	27.9	20.3	15.2	7.6	0.0	0.0
72.5°	593.3	243.4	53.2	30.4	25.4	20.3	15.2	10.1	7.6	0.0	0.0
75°	258.6	124.2	33.0	22.8	17.7	12.7	10.1	7.6	2.5	0.0	0.0
77.5°	131.9	68.5	22.8	17.7	10.1	7.6	5.1	2.5	0.0	0.0	0.0
80°	73.5	35.5	15.2	10.1	7.6	5.1	2.5	2.5	0.0	0.0	0.0
82.5°	40.6	20.3	7.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.4	12.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	5.1	0.0	0.0	0.0	0.0	2.5	2.5	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)