

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: P301015

Luminaire Tested: **GLNA-AF-10-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-10-LED-E1-SL4-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35548.6 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

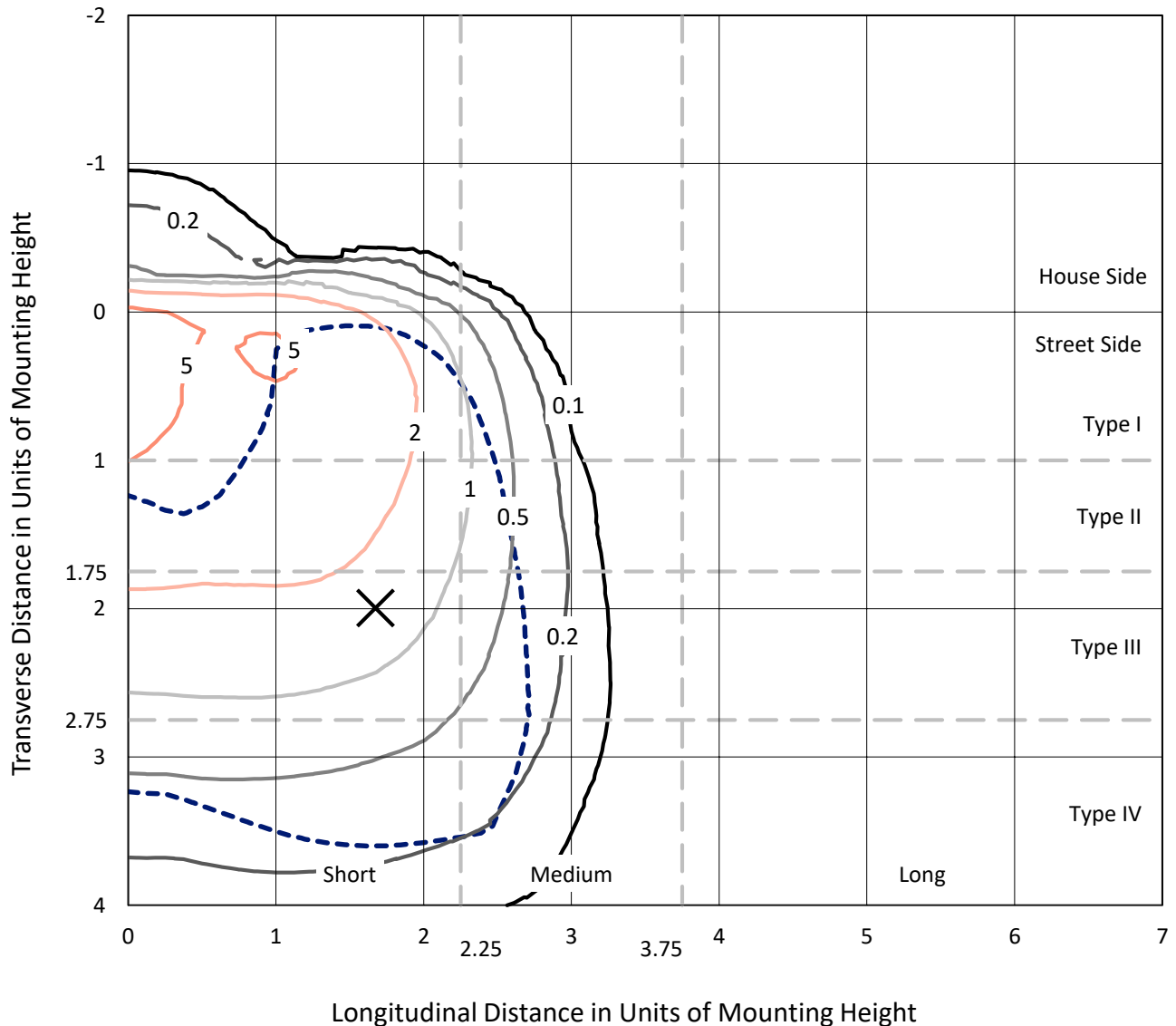
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

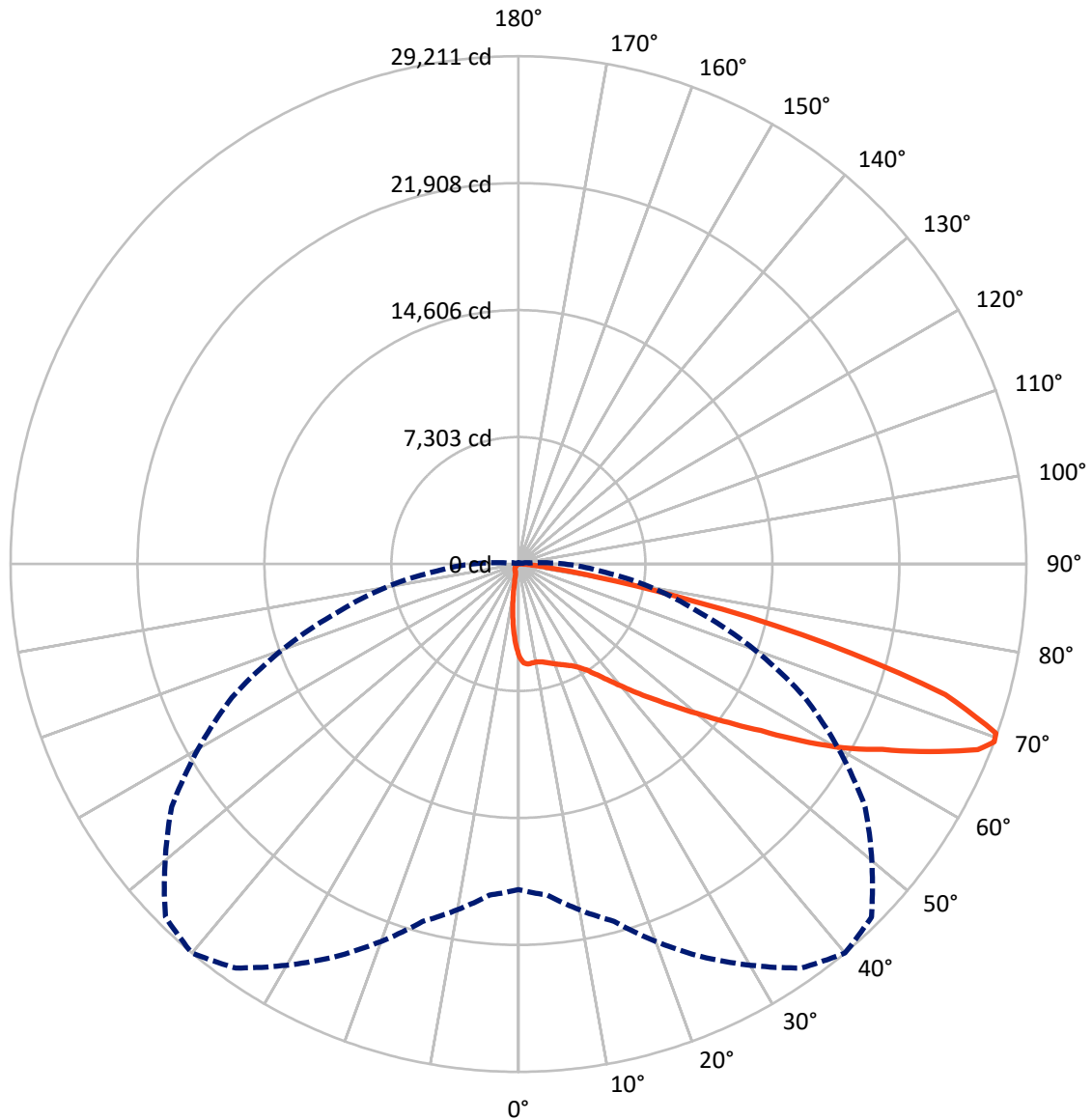
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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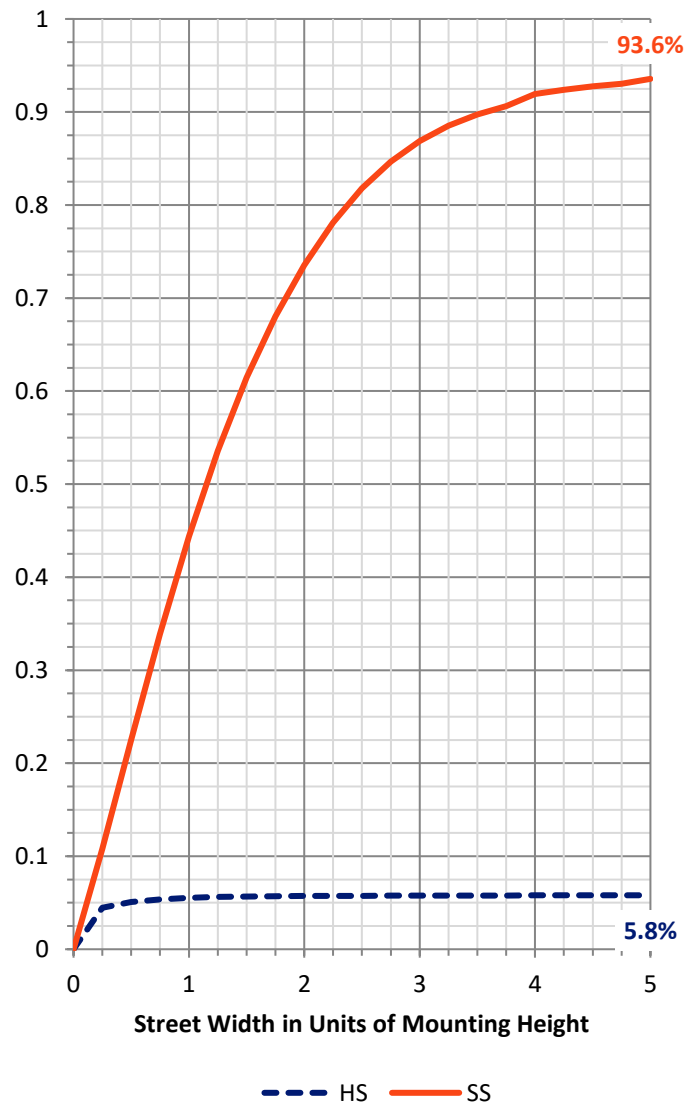
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2079.8	0.0	2079.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	33468.8	0.0	33468.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	35548.6	0.0	35548.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.6	1.2
10°-20°	1059.0	3.0
20°-30°	1783.7	5.0
30°-40°	2920.0	8.2
40°-50°	5055.9	14.2
50°-60°	7963.5	22.4
60°-70°	10400.0	29.3
70°-80°	5356.5	15.1
80°-90°	579.4	1.6
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°	35548.6	100.0
0°-180°	35548.6	100.0

Coefficient of Utilization



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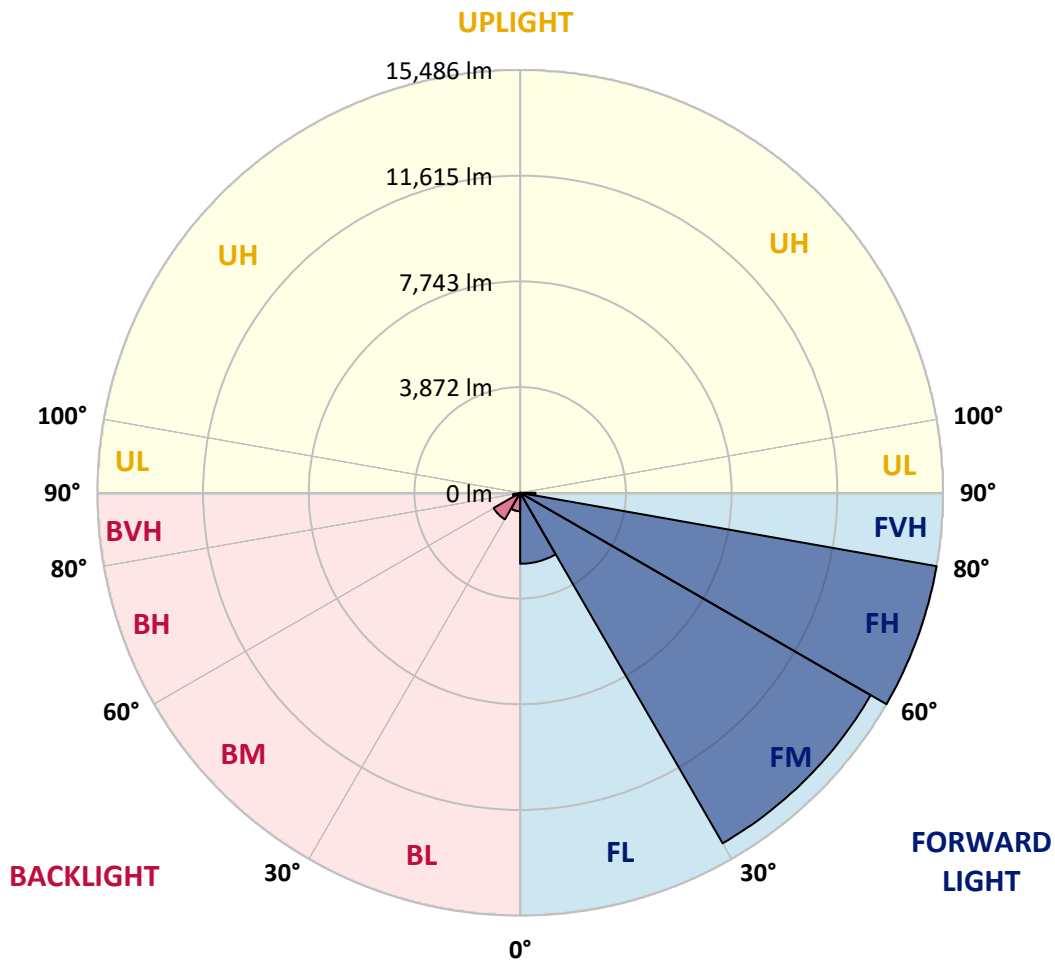
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2599.6	7.3			
FM	(30°-60°)	14821.5	41.7			
FH	(60°-80°)	15486.4	43.6			G5
FVH	(80°-90°)	561.2	1.6			G4/750
BL	(0°-30°)	673.7	1.9	B2/1000		
BM	(30°-60°)	1117.8	3.1	B2/2500		
BH	(60°-80°)	270.1	0.8	B1/500		G1/500
BVH	(80°-90°)	18.2	0.1			G1/100
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°	35°	40°	45°	55°	65°	75°	85°
0°	5311.1	5311.1	5311.1	5311.1	5311.1	5311.1	5311.1	5311.1	5311.1	5311.1	5311.1
2.5°	5831.7	5799.9	5780.9	5755.5	5723.8	5696.3	5685.7	5607.4	5533.3	5431.8	5315.4
5°	5939.6	5929.0	5895.2	5861.3	5823.2	5780.9	5757.6	5664.5	5558.7	5410.6	5207.5
7.5°	5950.2	5937.5	5895.2	5848.6	5795.7	5744.9	5704.7	5611.6	5514.3	5364.0	5116.5
10°	5933.2	5918.4	5886.7	5835.9	5770.3	5721.6	5681.4	5592.6	5510.0	5374.6	5099.5
12.5°	5914.2	5899.4	5884.6	5859.2	5802.1	5768.2	5734.3	5649.7	5575.6	5461.4	5160.9
15°	5933.2	5924.8	5941.7	5931.1	5899.4	5869.8	5835.9	5759.7	5692.0	5596.8	5273.1
17.5°	6013.7	6013.7	6066.6	6072.9	6043.3	6001.0	5952.3	5876.1	5819.0	5738.6	5406.4
20°	6202.0	6195.6	6263.3	6276.0	6204.1	6138.5	6066.6	5973.5	5929.0	5878.2	5537.6
22.5°	6525.7	6496.1	6536.3	6523.6	6381.8	6280.3	6191.4	6077.1	6053.9	6030.6	5683.6
25°	6946.8	6929.9	6957.4	6832.5	6582.9	6445.3	6339.5	6210.4	6210.4	6233.7	5848.6
27.5°	7558.3	7494.8	7401.7	7181.7	6807.2	6631.5	6517.3	6379.7	6415.7	6502.4	6066.6
30°	8184.7	8114.8	7901.1	7562.6	7080.1	6896.0	6762.7	6618.8	6703.5	6862.2	6358.6
32.5°	8802.5	8724.2	8421.7	7994.2	7471.6	7287.5	7158.4	6999.7	7141.5	7408.1	6786.0
35°	9401.4	9331.5	8982.4	8478.8	7992.1	7839.8	7721.3	7583.7	7765.7	8138.1	7389.1
37.5°	10074.2	9998.1	9572.8	9026.8	8624.8	8514.8	8428.0	8290.5	8607.9	9153.8	8229.1
40°	10901.6	10772.5	10199.1	9655.3	9356.9	9304.0	9244.8	9225.7	9718.8	10474.2	9348.5
42.5°	11849.6	11638.0	10855.0	10317.6	10161.0	10199.1	10184.3	10268.9	11109.0	12116.2	10711.2
45°	12797.5	12524.6	11585.1	11024.3	11045.5	11178.8	11261.3	11599.9	12850.4	13999.4	12177.5
47.5°	13601.6	13332.9	12285.5	11788.2	12042.1	12304.5	12528.8	13169.9	14640.6	15853.0	13318.1
50°	14289.3	14035.4	13028.2	12628.3	13199.6	13622.8	13986.7	14936.8	16566.1	17264.4	14117.9
52.5°	14852.2	14682.9	13798.4	13591.0	14522.1	15142.1	15675.3	16813.7	18271.6	18411.3	14740.0
55°	15400.2	15279.6	14625.7	14735.8	16075.2	16919.5	17594.5	18804.8	19740.1	19367.7	15336.7
57.5°	16030.8	15920.7	15569.5	16187.4	18117.1	19179.4	19915.7	20569.6	21033.0	20345.3	15899.6
60°	16674.0	16610.6	16619.0	17799.7	20461.7	21481.6	21887.8	22057.1	22302.6	21265.7	15931.3
62.5°	17287.7	17408.3	17818.8	19594.1	22706.7	23489.6	23694.9	23862.1	23574.3	21411.7	14718.9
65°	18326.6	18523.4	19503.1	21995.8	25176.1	26014.0	26225.6	25652.2	23775.3	19524.3	11972.3
67.5°	18834.5	19194.2	20942.0	24234.5	27571.4	28502.4	28424.1	25768.6	21335.6	14888.1	7683.2
69°	18728.7	19111.7	21274.2	24920.1	28367.0	29211.3	28714.0	24344.5	18176.4	10785.2	4716.6
70°	18309.7	18696.9	21102.8	24894.7	28468.6	29137.2	28176.6	22586.1	15368.5	7886.3	2949.7
72.5°	15290.2	15624.5	18735.0	22501.5	26225.6	25681.8	23572.2	15647.8	7488.5	2147.7	664.4
75°	9411.9	9598.1	13442.9	16951.2	19807.8	18411.3	15704.9	7784.7	2232.4	607.3	368.2
77.5°	4972.6	5057.2	7359.4	9991.7	12556.3	10389.5	8049.2	3036.5	1028.4	380.9	266.6
80°	2939.1	3002.6	3963.3	4568.4	5433.9	4538.8	3218.4	1864.2	736.4	239.1	237.0
82.5°	1682.2	1722.4	2873.5	2539.2	2141.4	1828.2	1601.8	1766.9	442.2	160.8	245.5
85°	617.9	626.3	1616.6	1931.9	1273.8	757.5	795.6	1464.3	118.5	101.6	192.6
87.5°	287.8	281.4	831.6	1182.8	744.8	480.3	620.0	321.6	46.6	65.6	52.9
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°	5311.1	5311.1	5311.1	5311.1	5311.1	5311.1	5311.1	5311.1	5311.1	5311.1	5311.1
2.5°	5247.7	5169.4	5027.6	4881.6	4733.5	4619.2	4507.1	4418.2	4388.6	4333.6	4337.8
5°	5086.8	4943.0	4646.7	4346.3	4033.1	3774.9	3531.6	3334.8	3239.6	3142.3	3142.3
7.5°	4947.2	4737.7	4274.3	3785.5	3279.8	2854.5	2471.5	2183.7	2025.0	1898.0	1895.9
10°	4894.3	4610.8	3963.3	3262.9	2558.2	1978.5	1523.5	1231.5	1081.3	983.9	979.7
12.5°	4917.6	4566.3	3724.1	2780.4	1895.9	1271.7	882.4	694.0	630.6	600.9	600.9
15°	4985.3	4553.6	3485.0	2308.5	1339.4	795.6	586.1	535.3	531.1	531.1	531.1
17.5°	5067.8	4557.9	3239.6	1849.4	912.0	569.2	505.7	499.4	503.6	503.6	503.6
20°	5152.4	4560.0	2975.1	1424.1	643.3	495.1	476.1	474.0	478.2	478.2	480.3
22.5°	5256.1	4570.5	2710.6	1064.3	531.1	467.6	452.8	452.8	454.9	454.9	452.8
25°	5374.6	4591.7	2435.5	789.3	484.6	448.6	435.9	433.8	435.9	433.8	431.7
27.5°	5522.7	4621.3	2128.7	617.9	463.4	429.5	419.0	419.0	416.9	414.7	412.6
30°	5709.0	4655.2	1783.8	524.8	442.2	412.6	402.0	399.9	397.8	393.6	393.6
32.5°	5992.5	4729.2	1443.1	476.1	419.0	389.3	380.9	380.9	376.6	372.4	370.3
35°	6428.4	4875.2	1138.4	446.5	393.6	364.0	353.4	353.4	349.1	347.0	344.9
37.5°	7031.4	5097.4	884.5	419.0	368.2	336.4	325.9	323.7	319.5	315.3	313.2
40°	7833.4	5372.5	696.2	393.6	342.8	308.9	300.5	296.2	287.8	281.4	281.4
42.5°	8840.6	5685.7	565.0	366.1	313.2	283.5	277.2	270.8	256.0	249.7	247.6
45°	9894.4	5967.1	478.2	334.3	283.5	258.2	253.9	243.3	224.3	217.9	217.9
47.5°	10654.0	6032.7	421.1	304.7	256.0	230.6	228.5	209.5	192.6	188.3	186.2
50°	11128.0	5903.6	374.5	275.1	230.6	205.3	198.9	175.6	165.0	160.8	158.7
52.5°	11447.5	5673.0	336.4	249.7	207.4	182.0	167.2	150.2	141.8	137.5	137.5
55°	11703.6	5347.1	298.4	226.4	188.3	162.9	141.8	129.1	120.6	116.4	116.4
57.5°	11775.5	4904.9	260.3	207.4	169.3	143.9	120.6	112.1	101.6	99.5	99.5
60°	11252.9	4107.1	230.6	184.1	152.4	124.8	105.8	95.2	84.6	82.5	80.4
62.5°	9875.3	3178.2	203.1	162.9	133.3	107.9	91.0	78.3	69.8	69.8	69.8
65°	7532.9	2130.8	177.7	141.8	116.4	91.0	78.3	63.5	59.2	59.2	61.4
67.5°	4509.2	1159.6	152.4	120.6	99.5	76.2	65.6	55.0	52.9	55.0	55.0
69°	2642.9	681.3	137.5	107.9	86.8	67.7	57.1	48.7	52.9	55.0	55.0
70°	1631.4	459.2	127.0	97.3	78.3	61.4	52.9	46.6	50.8	52.9	52.9
72.5°	454.9	237.0	101.6	76.2	63.5	50.8	42.3	42.3	48.7	50.8	50.8
75°	296.2	175.6	78.3	57.1	48.7	40.2	36.0	40.2	46.6	48.7	48.7
77.5°	245.5	143.9	63.5	46.6	40.2	38.1	33.9	36.0	42.3	44.4	44.4
80°	224.3	101.6	50.8	42.3	36.0	33.9	31.7	29.6	38.1	40.2	40.2
82.5°	213.7	80.4	44.4	38.1	33.9	29.6	27.5	29.6	33.9	36.0	38.1
85°	133.3	52.9	40.2	36.0	29.6	27.5	27.5	27.5	31.7	33.9	33.9
87.5°	48.7	42.3	36.0	29.6	25.4	25.4	25.4	25.4	27.5	31.7	31.7
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)