

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: P300871

Luminaire Tested: **GLNA-AF-06-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300871
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-06-LED-E1-SL4-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32607.9 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

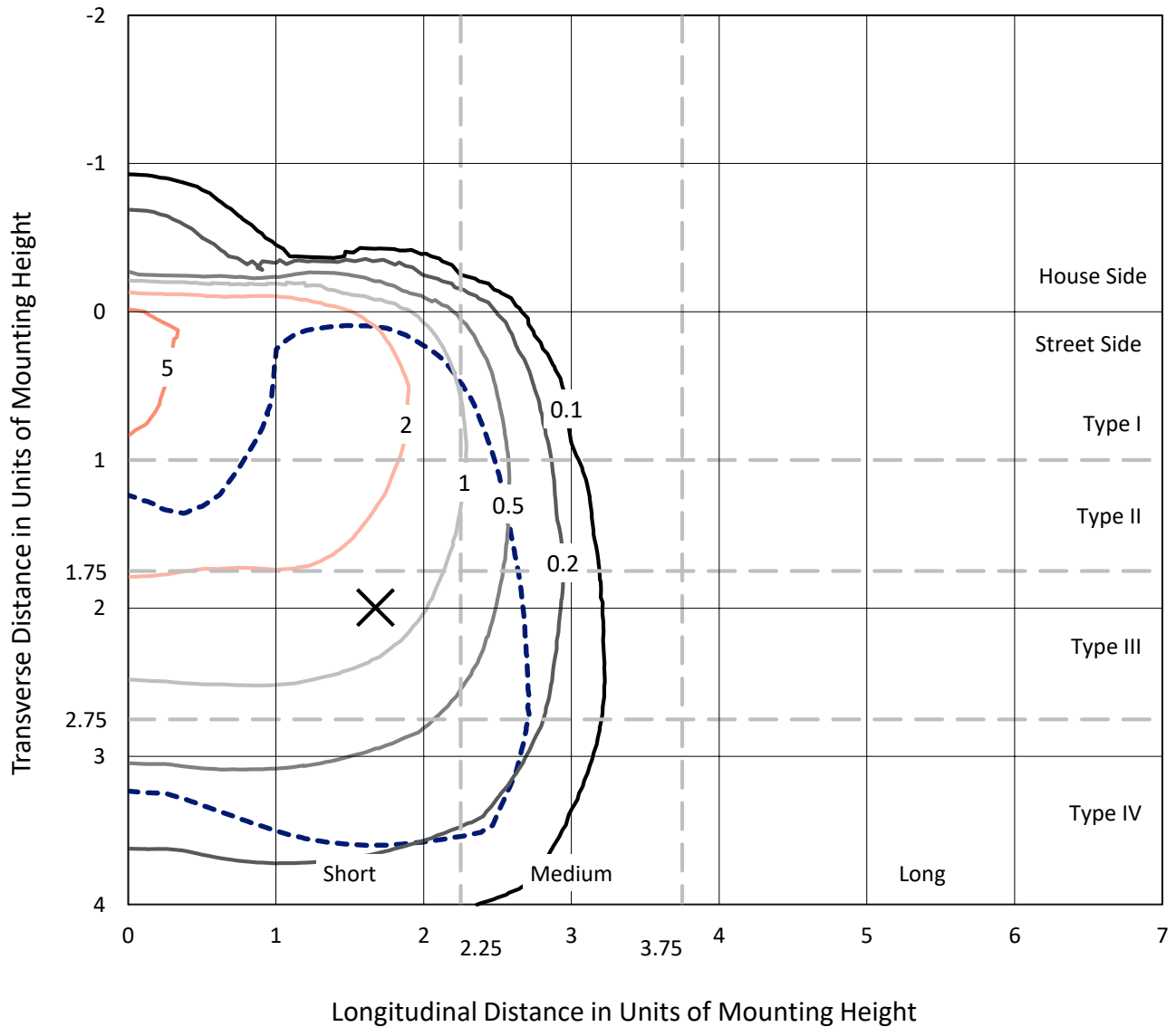
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300871
 CATALOG NUMBER: GLNA-AF-06-LED-E1-SL4-7030

Iso-Footcandle Lines of Horizontal Illumination

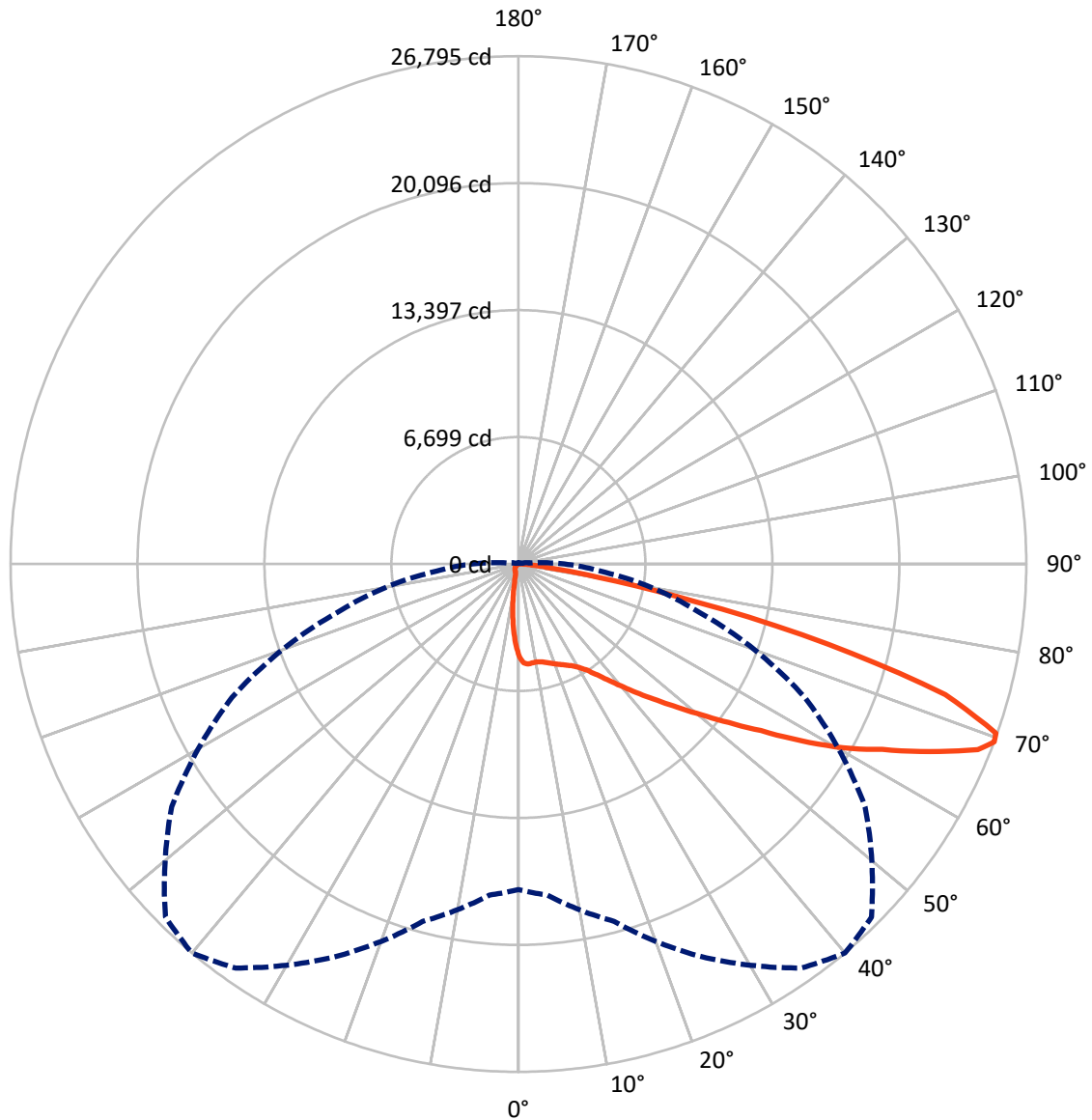
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P300871
CATALOG NUMBER: GLNA-AF-06-LED-E1-SL4-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P300871

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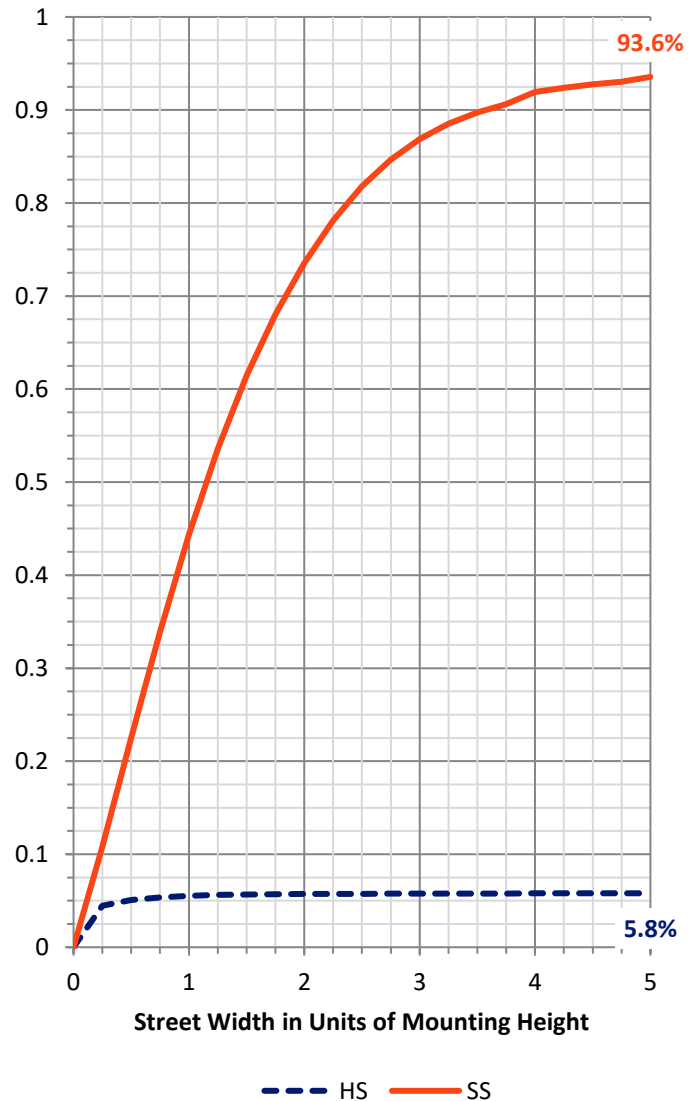
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1907.7	0.0	1907.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	30700.2	0.0	30700.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	32607.9	0.0	32607.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.0	1.2
10°-20°	971.4	3.0
20°-30°	1636.2	5.0
30°-40°	2678.4	8.2
40°-50°	4637.6	14.2
50°-60°	7304.7	22.4
60°-70°	9539.7	29.3
70°-80°	4913.4	15.1
80°-90°	531.5	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°	32607.9	100.0
0°-180°	32607.9	100.0



REPORT NUMBER: P300871

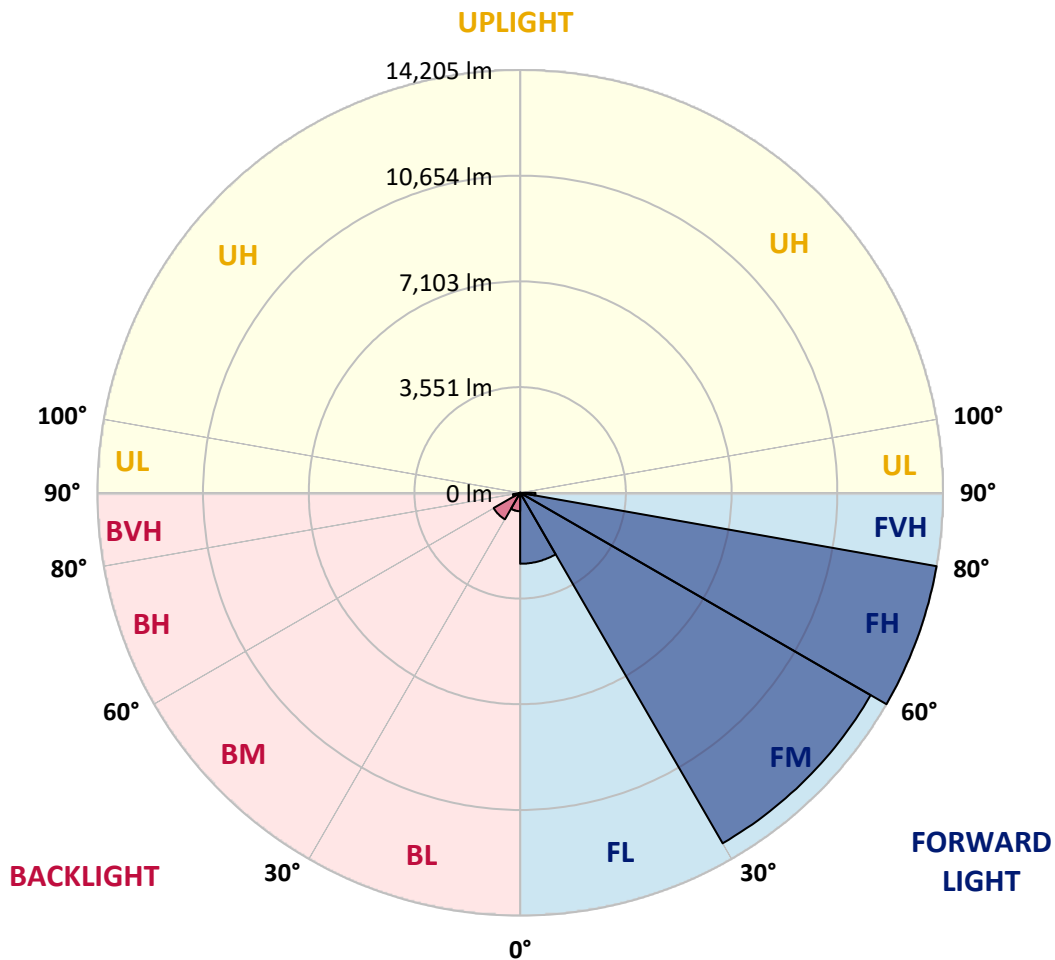
CATALOG NUMBER: GLNA-AF-06-LED-E1-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2384.6	7.3			
FM	(30°-60°)	13595.4	41.7			
FH	(60°-80°)	14205.3	43.6			G5
FVH	(80°-90°)	514.8	1.6			G4/750
BL	(0°-30°)	618.0	1.9	B2/1000		
BM	(30°-60°)	1025.4	3.1	B2/2500		
BH	(60°-80°)	247.7	0.8	B1/500		G1/500
BVH	(80°-90°)	16.7	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





REPORT NUMBER: P300871

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL4-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4871.8	4871.8	4871.8	4871.8	4871.8	4871.8	4871.8	4871.8	4871.8	4871.8	4871.8
2.5°	5349.3	5320.1	5302.7	5279.4	5250.3	5225.0	5215.3	5143.5	5075.6	4982.4	4875.7
5°	5448.3	5438.5	5407.5	5376.4	5341.5	5302.7	5281.3	5195.9	5098.9	4963.0	4776.7
7.5°	5458.0	5446.3	5407.5	5364.8	5316.3	5269.7	5232.8	5147.4	5058.1	4920.3	4693.2
10°	5442.4	5428.8	5399.7	5353.1	5293.0	5248.3	5211.5	5129.9	5054.2	4930.0	4677.7
12.5°	5425.0	5411.4	5397.8	5374.5	5322.1	5291.0	5260.0	5182.3	5114.4	5009.6	4734.0
15°	5442.4	5434.7	5450.2	5440.5	5411.4	5384.2	5353.1	5283.3	5221.2	5133.8	4836.9
17.5°	5516.2	5516.2	5564.7	5570.5	5543.4	5504.5	5459.9	5390.0	5337.6	5263.9	4959.1
20°	5688.9	5683.1	5745.2	5756.9	5690.9	5630.7	5564.7	5479.3	5438.5	5392.0	5079.5
22.5°	5985.9	5958.7	5995.6	5984.0	5853.9	5760.7	5679.2	5574.4	5553.1	5531.7	5213.4
25°	6372.1	6356.6	6381.8	6267.3	6038.3	5912.1	5815.1	5696.7	5696.7	5718.0	5364.8
27.5°	6933.1	6874.8	6789.4	6587.6	6244.0	6082.9	5978.1	5852.0	5885.0	5964.5	5564.7
30°	7507.6	7443.5	7247.5	6937.0	6494.4	6325.6	6203.3	6071.3	6148.9	6294.5	5832.6
32.5°	8074.4	8002.5	7725.0	7332.9	6853.5	6684.6	6566.2	6420.7	6550.7	6795.3	6224.6
35°	8623.6	8559.6	8239.3	7777.4	7331.0	7191.2	7082.5	6956.4	7123.3	7464.9	6777.8
37.5°	9240.9	9171.0	8780.9	8280.1	7911.3	7810.4	7730.8	7604.6	7895.8	8396.6	7548.4
40°	9999.8	9881.4	9355.4	8856.6	8582.9	8534.4	8480.0	8462.5	8914.8	9607.7	8575.1
42.5°	10869.3	10675.2	9957.1	9464.1	9320.4	9355.4	9341.8	9419.4	10190.0	11113.9	9825.1
45°	11738.9	11488.5	10626.7	10112.4	10131.8	10254.0	10329.7	10640.3	11787.4	12841.3	11170.2
47.5°	12476.4	12229.9	11269.2	10813.0	11046.0	11286.6	11492.4	12080.5	13429.4	14541.6	12216.3
50°	13107.2	12874.3	11950.4	11583.6	12107.7	12495.8	12829.7	13701.2	15195.7	15836.2	12950.0
52.5°	13623.5	13468.3	12656.9	12466.7	13320.7	13889.4	14378.6	15422.8	16760.1	16888.2	13520.7
55°	14126.2	14015.6	13415.9	13516.8	14745.4	15519.8	16139.0	17249.2	18107.1	17765.5	14068.0
57.5°	14704.6	14603.7	14281.5	14848.3	16618.4	17592.8	18268.2	18868.0	19293.1	18662.2	14584.3
60°	15294.7	15236.5	15244.2	16327.3	18769.0	19704.5	20077.2	20232.5	20457.6	19506.6	14613.4
62.5°	15857.6	15968.2	16344.8	17973.2	20828.3	21546.5	21734.8	21888.1	21624.1	19640.5	13501.3
65°	16810.6	16991.1	17889.7	20176.2	23093.4	23862.1	24056.2	23530.2	21808.5	17909.2	10981.9
67.5°	17276.4	17606.4	19209.6	22229.7	25290.6	26144.6	26072.8	23636.9	19570.6	13656.5	7047.6
69°	17179.4	17530.7	19514.3	22858.6	26020.4	26794.8	26338.7	22330.6	16672.8	9893.0	4326.4
70°	16795.1	17150.2	19357.1	22835.3	26113.6	26726.9	25845.7	20717.7	14097.1	7233.9	2705.7
72.5°	14025.3	14332.0	17185.2	20640.1	24056.2	23557.3	21622.2	14353.3	6869.0	1970.1	609.5
75°	8633.4	8804.2	12330.9	15549.0	18169.2	16888.2	14405.7	7140.8	2047.7	557.1	337.7
77.5°	4561.2	4638.9	6750.6	9165.2	11517.6	9530.1	7383.4	2785.3	943.3	349.4	244.6
80°	2696.0	2754.2	3635.4	4190.5	4984.4	4163.3	2952.2	1710.0	675.5	219.3	217.4
82.5°	1543.1	1579.9	2635.8	2329.1	1964.2	1677.0	1469.3	1620.7	405.7	147.5	225.2
85°	566.8	574.5	1482.9	1772.1	1168.5	694.9	729.8	1343.1	108.7	93.2	176.6
87.5°	264.0	258.1	762.8	1085.0	683.2	440.6	568.7	295.0	42.7	60.2	48.5
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°	4871.8	4871.8	4871.8	4871.8	4871.8	4871.8	4871.8	4871.8	4871.8	4871.8	4871.8
2.5°	4813.6	4741.7	4611.7	4477.8	4341.9	4237.1	4134.2	4052.7	4025.5	3975.1	3979.0
5°	4666.0	4534.1	4262.3	3986.7	3699.5	3462.7	3239.4	3058.9	2971.6	2882.3	2882.3
7.5°	4537.9	4345.8	3920.7	3472.4	3008.5	2618.3	2267.0	2003.1	1857.5	1741.0	1739.1
10°	4489.4	4229.3	3635.4	2992.9	2346.6	1814.8	1397.5	1129.6	991.8	902.5	898.7
12.5°	4510.8	4188.6	3416.1	2550.4	1739.1	1166.5	809.4	636.6	578.4	551.2	551.2
15°	4572.9	4176.9	3196.7	2117.6	1228.6	729.8	537.6	491.1	487.2	487.2	487.2
17.5°	4648.6	4180.8	2971.6	1696.4	836.6	522.1	463.9	458.1	461.9	461.9	461.9
20°	4726.2	4182.8	2729.0	1306.3	590.0	454.2	436.7	434.8	438.7	438.7	440.6
22.5°	4821.3	4192.5	2486.4	976.3	487.2	429.0	415.4	415.4	417.3	417.3	415.4
25°	4930.0	4211.9	2234.0	724.0	444.5	411.5	399.8	397.9	399.8	397.9	396.0
27.5°	5065.9	4239.0	1952.6	566.8	425.1	394.0	384.3	384.3	382.4	380.4	378.5
30°	5236.7	4270.1	1636.2	481.4	405.7	378.5	368.8	366.8	364.9	361.0	361.0
32.5°	5496.8	4338.0	1323.7	436.7	384.3	357.1	349.4	349.4	345.5	341.6	339.7
35°	5896.6	4472.0	1044.2	409.5	361.0	333.8	324.1	324.1	320.3	318.3	316.4
37.5°	6449.8	4675.8	811.3	384.3	337.7	308.6	298.9	297.0	293.1	289.2	287.3
40°	7185.4	4928.1	638.6	361.0	314.4	283.4	275.6	271.7	264.0	258.1	258.1
42.5°	8109.3	5215.3	518.2	335.8	287.3	260.1	254.3	248.4	234.9	229.0	227.1
45°	9075.9	5473.5	438.7	306.7	260.1	236.8	232.9	223.2	205.7	199.9	199.9
47.5°	9772.7	5533.7	386.2	279.5	234.9	211.6	209.6	192.2	176.6	172.7	170.8
50°	10207.5	5415.3	343.5	252.3	211.6	188.3	182.4	161.1	151.4	147.5	145.6
52.5°	10500.5	5203.7	308.6	229.0	190.2	166.9	153.3	137.8	130.0	126.2	126.2
55°	10735.4	4904.8	273.7	207.7	172.7	149.5	130.0	118.4	110.6	106.8	106.8
57.5°	10801.4	4499.1	238.7	190.2	155.3	132.0	110.6	102.9	93.2	91.2	91.2
60°	10322.0	3767.4	211.6	168.9	139.7	114.5	97.0	87.3	77.6	75.7	73.8
62.5°	9058.4	2915.3	186.3	149.5	122.3	99.0	83.5	71.8	64.1	64.1	64.1
65°	6909.8	1954.5	163.0	130.0	106.8	83.5	71.8	58.2	54.3	54.3	56.3
67.5°	4136.2	1063.6	139.7	110.6	91.2	69.9	60.2	50.5	48.5	50.5	50.5
69°	2424.2	625.0	126.2	99.0	79.6	62.1	52.4	44.6	48.5	50.5	50.5
70°	1496.5	421.2	116.5	89.3	71.8	56.3	48.5	42.7	46.6	48.5	48.5
72.5°	417.3	217.4	93.2	69.9	58.2	46.6	38.8	38.8	44.6	46.6	46.6
75°	271.7	161.1	71.8	52.4	44.6	36.9	33.0	36.9	42.7	44.6	44.6
77.5°	225.2	132.0	58.2	42.7	36.9	34.9	31.1	33.0	38.8	40.8	40.8
80°	205.7	93.2	46.6	38.8	33.0	31.1	29.1	27.2	34.9	36.9	36.9
82.5°	196.0	73.8	40.8	34.9	31.1	27.2	25.2	27.2	31.1	33.0	34.9
85°	122.3	48.5	36.9	33.0	27.2	25.2	25.2	25.2	29.1	31.1	31.1
87.5°	44.6	38.8	33.0	27.2	23.3	23.3	23.3	23.3	25.2	29.1	29.1
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)