

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: P454174

Luminaire Tested: **GALN-SA5B-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25402 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

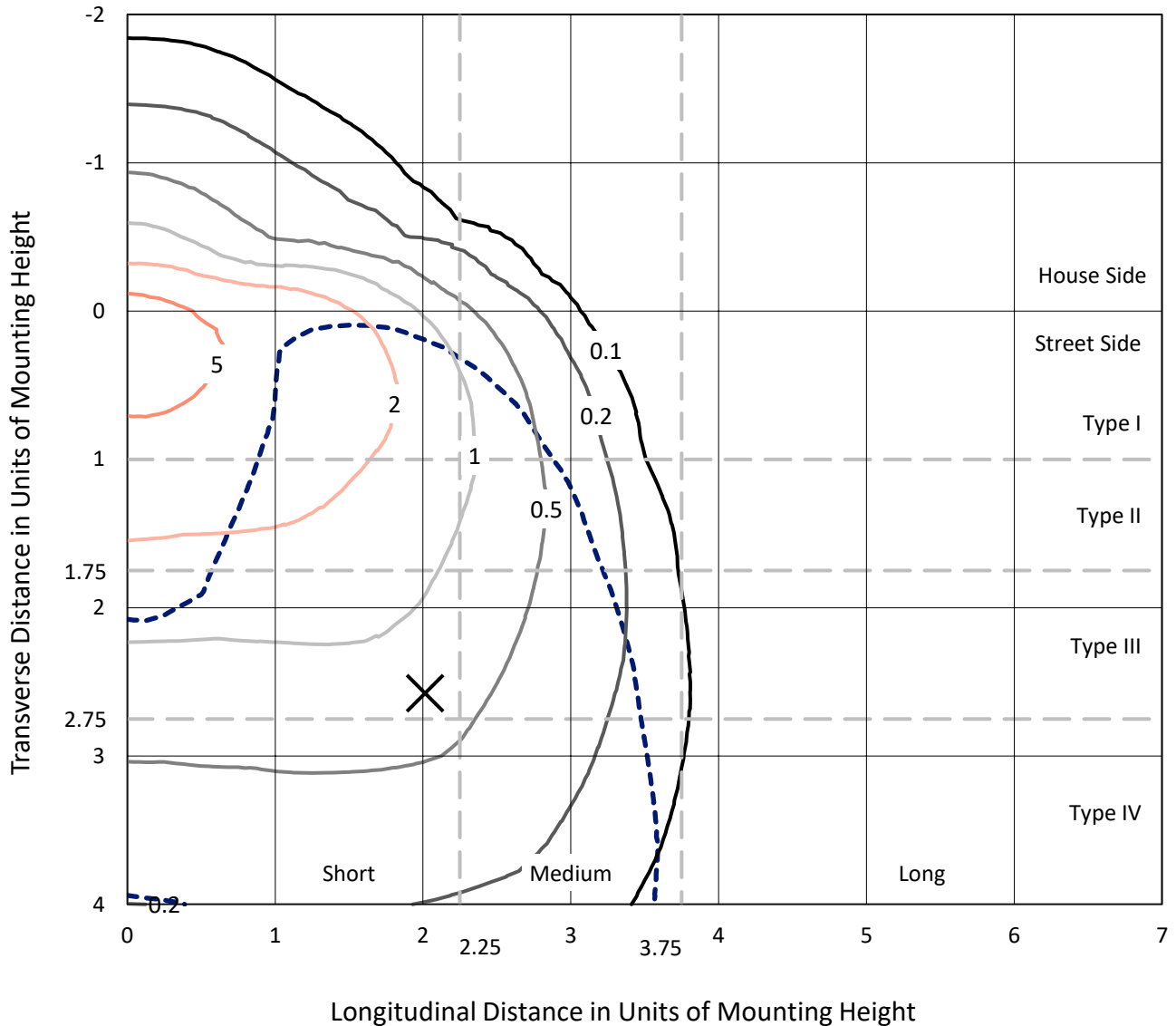
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

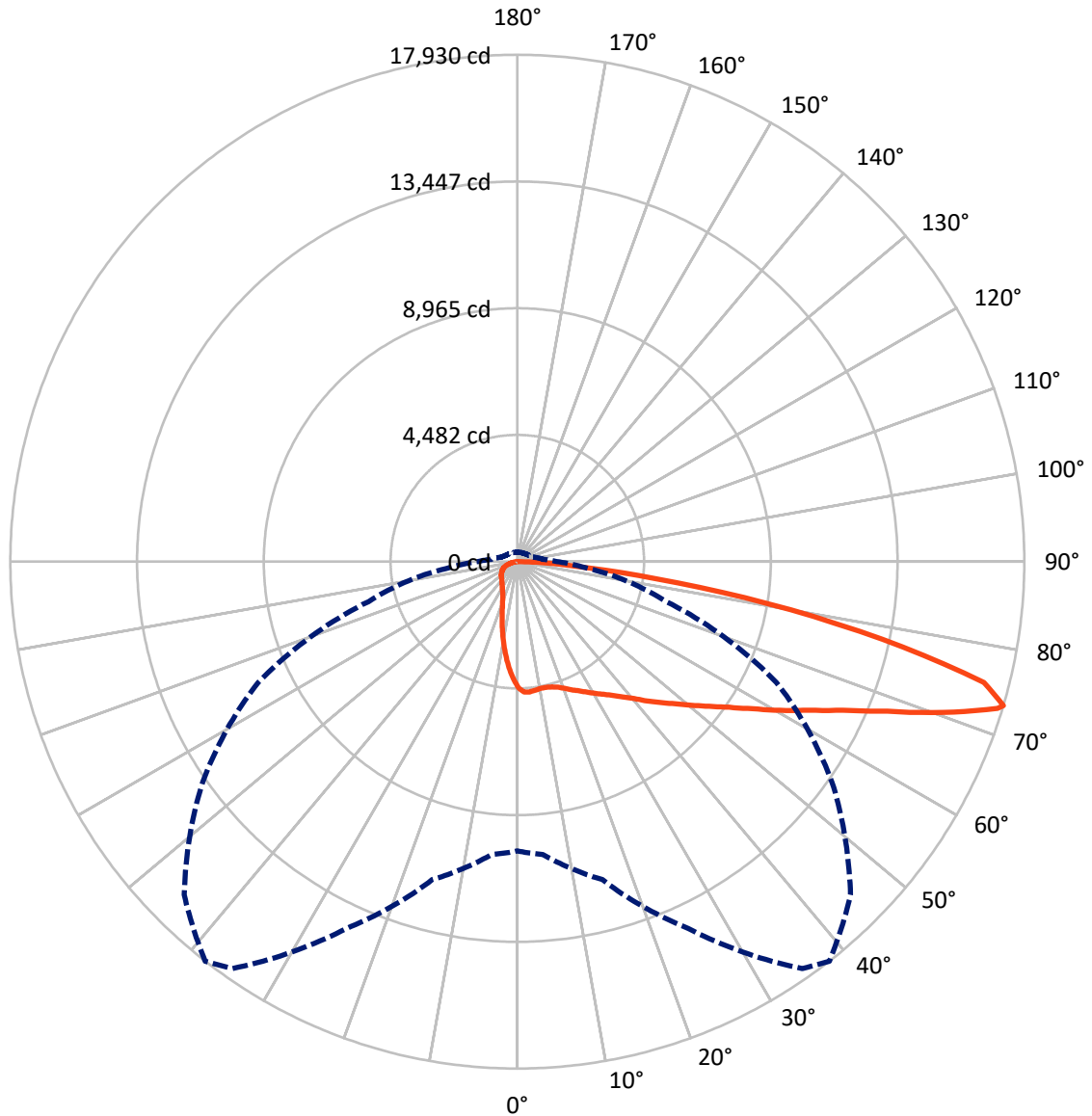
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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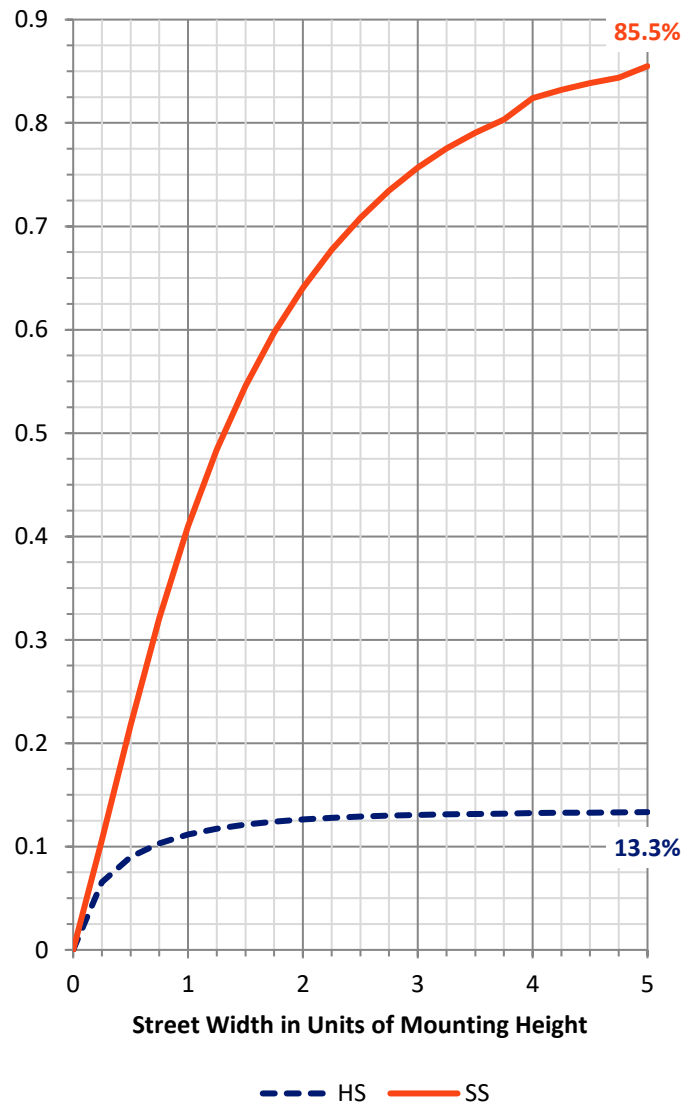
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3414.8	0.0	3414.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21987.2	0.0	21987.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	25402.0	0.0	25402.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.5	1.5
10°-20°	998.9	3.9
20°-30°	1555.5	6.1
30°-40°	2281.6	9.0
40°-50°	3384.5	13.3
50°-60°	4795.1	18.9
60°-70°	6082.7	23.9
70°-80°	5063.4	19.9
80°-90°	850.7	3.3
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°	25402.0	100.0
0°-180°	25402.0	100.0



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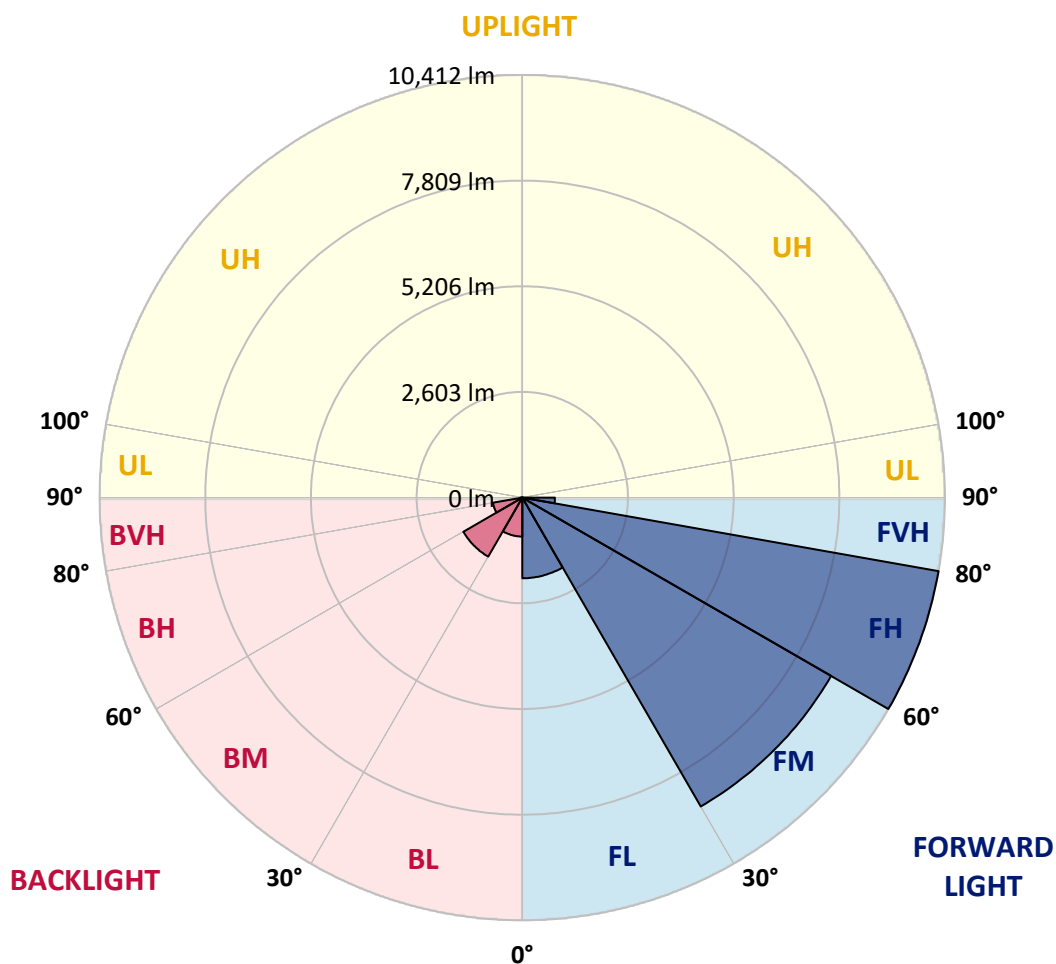
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1985.7	7.8			
FM	(30°-60°)	8784.7	34.6			
FH	(60°-80°)	10412.2	41.0			G4/12000
FVH	(80°-90°)	804.6	3.2			G5
BL	(0°-30°)	958.2	3.8	B2/1000		
BM	(30°-60°)	1676.4	6.6	B2/2500		
BH	(60°-80°)	734.0	2.9	B2/1000		G2/1000
BVH	(80°-90°)	46.1	0.2			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°	38°	45°	55°	65°	75°	85°
0°	4462.7	4462.7	4462.7	4462.7	4462.7	4462.7	4462.7	4462.7	4462.7	4462.7	4462.7
2.5°	4642.0	4665.0	4653.5	4637.7	4627.7	4617.6	4603.3	4561.7	4528.7	4492.8	4436.9
5°	4676.4	4690.8	4680.7	4660.7	4637.7	4627.7	4600.4	4545.9	4492.8	4432.6	4349.4
7.5°	4656.4	4662.1	4650.6	4626.2	4606.1	4587.5	4555.9	4495.7	4431.1	4358.0	4249.0
10°	4584.6	4606.1	4606.1	4586.1	4566.0	4555.9	4524.4	4467.0	4408.2	4325.0	4195.9
12.5°	4525.8	4548.8	4567.4	4561.7	4560.2	4560.2	4535.9	4492.8	4424.0	4345.1	4191.6
15°	4485.7	4512.9	4553.1	4576.0	4590.4	4594.7	4584.6	4547.3	4477.0	4385.2	4208.8
17.5°	4477.0	4510.0	4583.2	4633.4	4670.7	4669.3	4666.4	4614.8	4537.3	4442.6	4230.3
20°	4515.8	4558.8	4660.7	4739.6	4794.1	4784.0	4768.2	4700.8	4610.5	4504.3	4250.4
22.5°	4632.0	4676.4	4788.3	4874.4	4927.5	4927.5	4880.1	4791.2	4695.1	4576.0	4277.7
25°	4798.4	4847.1	4966.2	5053.7	5078.1	5059.4	5012.1	4904.5	4794.1	4679.3	4335.0
27.5°	5002.1	5060.9	5171.3	5244.5	5237.3	5223.0	5174.2	5036.5	4926.0	4821.3	4432.6
30°	5256.0	5299.0	5413.8	5431.0	5405.2	5402.3	5333.4	5195.7	5092.4	5012.1	4571.7
32.5°	5495.5	5534.3	5626.1	5633.2	5587.3	5593.1	5528.5	5402.3	5343.5	5314.8	4805.5
35°	5749.4	5769.5	5848.4	5839.8	5809.7	5805.4	5779.6	5659.1	5677.7	5729.4	5136.9
37.5°	5961.7	6001.9	6046.4	6053.6	6052.1	6066.5	6083.7	6026.3	6133.9	6296.0	5571.6
40°	6156.8	6191.3	6257.2	6280.2	6336.1	6364.8	6423.6	6425.1	6673.3	6940.1	6106.6
42.5°	6288.8	6347.6	6471.0	6512.6	6648.9	6734.9	6822.4	6915.7	7275.7	7618.6	6737.8
45°	6403.6	6481.0	6686.2	6815.3	7000.3	7105.0	7290.1	7485.2	8003.0	8452.0	7379.0
47.5°	6577.1	6646.0	6881.3	7109.3	7389.1	7509.6	7786.4	8077.6	8754.7	9246.7	7993.0
50°	6818.1	6859.7	7099.3	7470.8	7828.0	7982.9	8348.7	8769.0	9558.0	10031.4	8532.4
52.5°	7126.6	7143.8	7334.6	7829.5	8300.0	8492.2	8977.0	9467.6	10260.9	10712.8	8959.8
55°	7490.9	7462.2	7611.4	8209.6	8839.3	9090.4	9611.1	10174.8	11051.3	11263.6	9271.1
57.5°	7851.0	7806.5	7925.6	8671.5	9504.9	9807.6	10414.4	10903.6	11757.1	11778.6	9489.2
60°	8232.5	8199.5	8341.6	9213.7	10321.2	10679.8	11240.7	11659.5	12439.9	12137.2	9523.6
62.5°	8624.2	8571.1	8773.3	9823.4	11240.7	11566.3	12110.0	12462.9	13109.8	12270.6	9192.2
65°	9004.3	8979.9	9292.6	10547.8	12287.8	12657.9	13185.8	13425.4	13646.3	12069.8	8370.3
67.5°	9408.8	9457.6	9956.8	11514.7	13653.5	14118.3	14687.8	14462.5	13799.8	11118.7	7049.1
70°	10025.7	10057.2	10829.0	12781.3	15413.6	15974.5	16249.9	14831.2	13059.6	9312.7	5299.0
72.5°	10291.0	10430.2	11607.9	14111.1	17413.3	17756.1	16774.9	14009.2	10879.2	6326.1	2784.3
73°	10232.2	10398.6	11643.8	14313.3	17569.6	17929.7	16663.0	13586.1	10113.2	5448.2	2387.0
75°	9499.2	9704.3	11177.6	14144.1	17265.5	17050.4	14864.2	11579.2	6833.9	2477.4	1087.3
77.5°	7495.2	7554.0	8856.5	11421.4	13596.1	13197.3	11124.5	7237.0	2791.5	920.9	616.8
80°	3759.8	3976.4	4992.0	6542.7	9091.8	8961.3	7021.8	3422.7	1163.4	540.8	408.8
82.5°	1808.9	1962.4	2431.5	3190.3	5023.6	4904.5	3477.2	1870.6	738.8	315.6	241.0
85°	1164.8	1279.6	1547.8	1522.0	2065.7	1972.4	1562.2	1415.8	437.5	165.0	167.8
87.5°	768.9	842.0	1009.9	807.6	751.7	679.9	690.0	797.6	86.1	63.1	23.0
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°	4462.7	4462.7	4462.7	4462.7	4462.7	4462.7	4462.7	4462.7	4462.7	4462.7	4462.7
2.5°	4413.9	4395.3	4333.6	4273.3	4216.0	4161.5	4125.6	4078.3	4046.7	4055.3	4068.2
5°	4303.5	4261.9	4152.9	4046.7	3946.3	3827.2	3731.1	3653.6	3594.8	3573.3	3569.0
7.5°	4187.3	4117.0	3960.6	3778.4	3607.7	3460.0	3289.3	3204.7	3105.7	3071.2	3059.8
10°	4117.0	4022.3	3802.8	3548.9	3292.2	3046.9	2861.8	2711.2	2574.9	2549.1	2536.2
12.5°	4096.9	3972.1	3676.6	3349.5	3008.1	2706.9	2432.9	2234.9	2103.0	2072.8	2028.4
15°	4085.4	3930.5	3559.0	3148.7	2715.5	2348.3	2059.9	1829.0	1708.5	1628.1	1629.6
17.5°	4075.4	3883.2	3427.0	2929.2	2463.0	2039.8	1721.4	1513.4	1402.9	1359.9	1355.6
20°	4061.0	3827.2	3274.9	2698.3	2174.7	1758.7	1470.4	1315.4	1240.8	1205.0	1203.5
22.5°	4055.3	3772.7	3125.8	2463.0	1919.3	1542.1	1304.0	1194.9	1147.6	1123.2	1123.2
25°	4069.7	3734.0	2969.4	2239.2	1692.7	1357.0	1189.2	1114.6	1087.3	1074.4	1070.1
27.5°	4114.1	3716.8	2814.5	2015.5	1484.7	1230.8	1111.7	1060.1	1040.0	1030.0	1031.4
30°	4198.8	3715.3	2662.4	1794.5	1329.8	1134.7	1050.0	1014.2	998.4	992.7	991.2
32.5°	4335.0	3746.9	2513.2	1612.4	1199.2	1054.4	992.7	966.8	959.7	955.4	953.9
35°	4566.0	3835.8	2365.5	1446.0	1098.8	982.6	938.2	925.2	915.2	919.5	920.9
37.5°	4877.3	3989.3	2224.9	1315.4	1022.8	929.6	892.3	880.8	875.0	879.3	883.6
40°	5294.7	4210.2	2107.3	1210.7	968.3	885.1	852.1	842.0	836.3	843.5	844.9
42.5°	5755.2	4465.6	2009.7	1128.9	923.8	847.8	816.2	804.7	800.4	804.7	806.2
45°	6228.6	4762.5	1959.5	1070.1	886.5	820.5	787.5	774.6	764.6	761.7	766.0
47.5°	6694.8	5020.7	1958.1	1034.3	856.4	796.1	760.3	745.9	733.0	725.9	724.4
50°	7074.9	5225.8	1992.5	1018.5	830.6	768.9	733.0	718.7	701.5	687.1	690.0
52.5°	7361.8	5359.3	2008.3	1011.3	816.2	740.2	704.3	691.4	671.3	652.7	652.7
55°	7546.9	5390.8	1969.6	1004.1	804.7	710.1	671.3	659.9	639.8	621.1	621.1
57.5°	7610.0	5293.3	1830.4	986.9	793.3	684.3	638.3	628.3	612.5	593.9	591.0
60°	7463.7	4963.3	1586.5	935.3	770.3	657.0	602.5	598.2	592.4	576.7	575.2
62.5°	6899.9	4263.3	1321.2	867.9	731.6	628.3	569.5	576.7	581.0	572.4	570.9
65°	5961.7	3461.4	1128.9	774.6	679.9	588.1	533.6	552.3	563.8	563.8	560.9
67.5°	4835.7	2658.1	951.1	694.3	615.4	533.6	493.5	507.8	516.4	513.5	520.7
70°	3437.0	1800.3	774.6	602.5	533.6	471.9	441.8	441.8	436.1	433.2	433.2
72.5°	1666.9	1028.5	628.3	503.5	454.7	403.1	378.7	368.7	357.2	355.8	348.6
73°	1392.9	922.4	599.6	484.9	436.1	393.1	365.8	350.0	342.8	337.1	335.7
75°	847.8	700.0	500.6	408.8	371.5	338.5	314.2	299.8	292.6	288.3	286.9
77.5°	558.0	522.2	388.7	312.7	284.0	263.9	253.9	239.6	235.3	229.5	229.5
80°	416.0	398.8	278.3	220.9	203.7	186.5	183.6	180.7	169.3	162.1	159.2
82.5°	268.2	284.0	189.4	147.8	129.1	114.8	116.2	120.5	109.0	99.0	96.1
85°	190.8	205.1	114.8	67.4	54.5	47.3	53.1	47.3	48.8	38.7	31.6
87.5°	31.6	54.5	20.1	8.6	4.3	2.9	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)