

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: P532092

Luminaire Tested: **GALN-SA7B-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26852 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

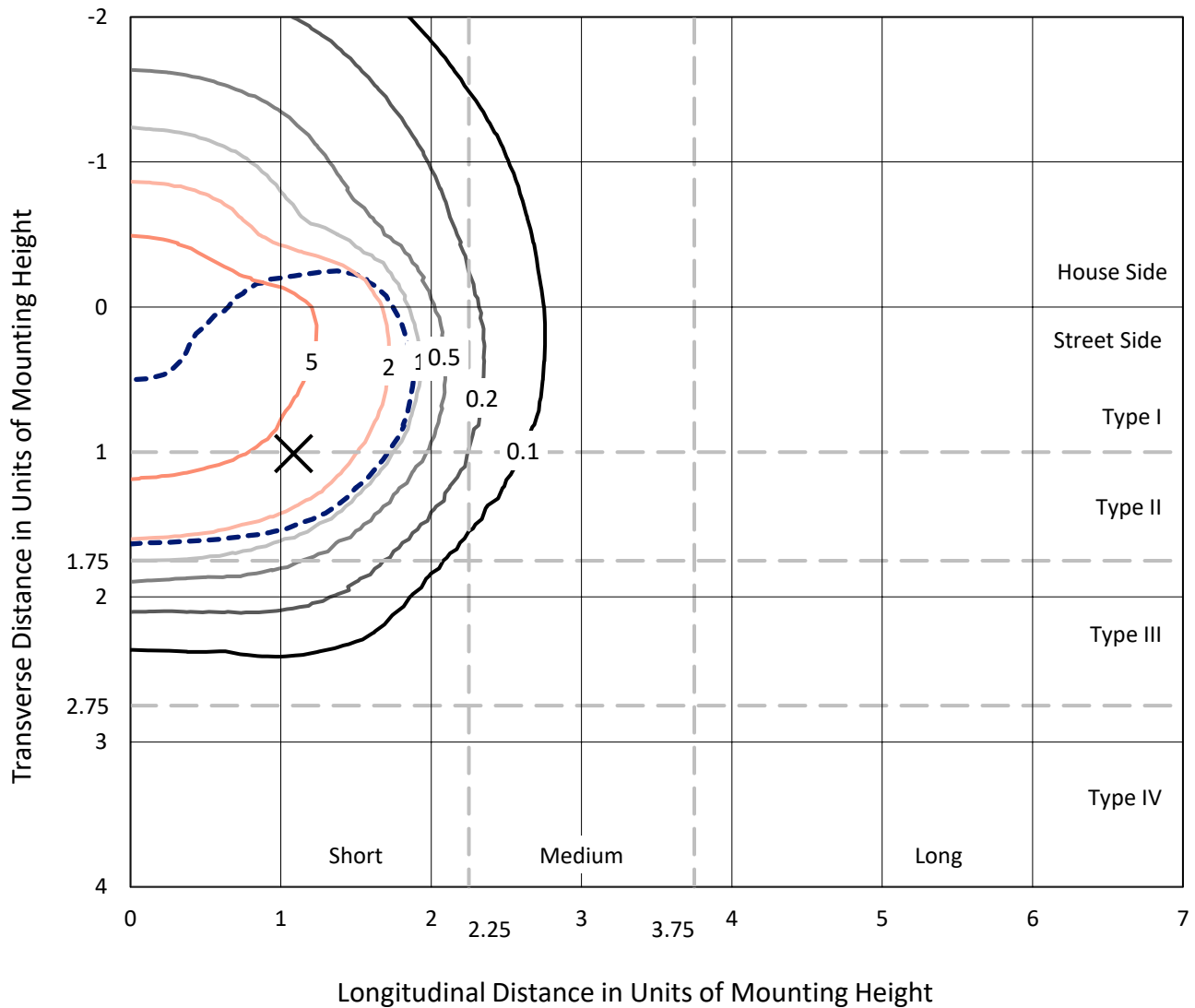
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

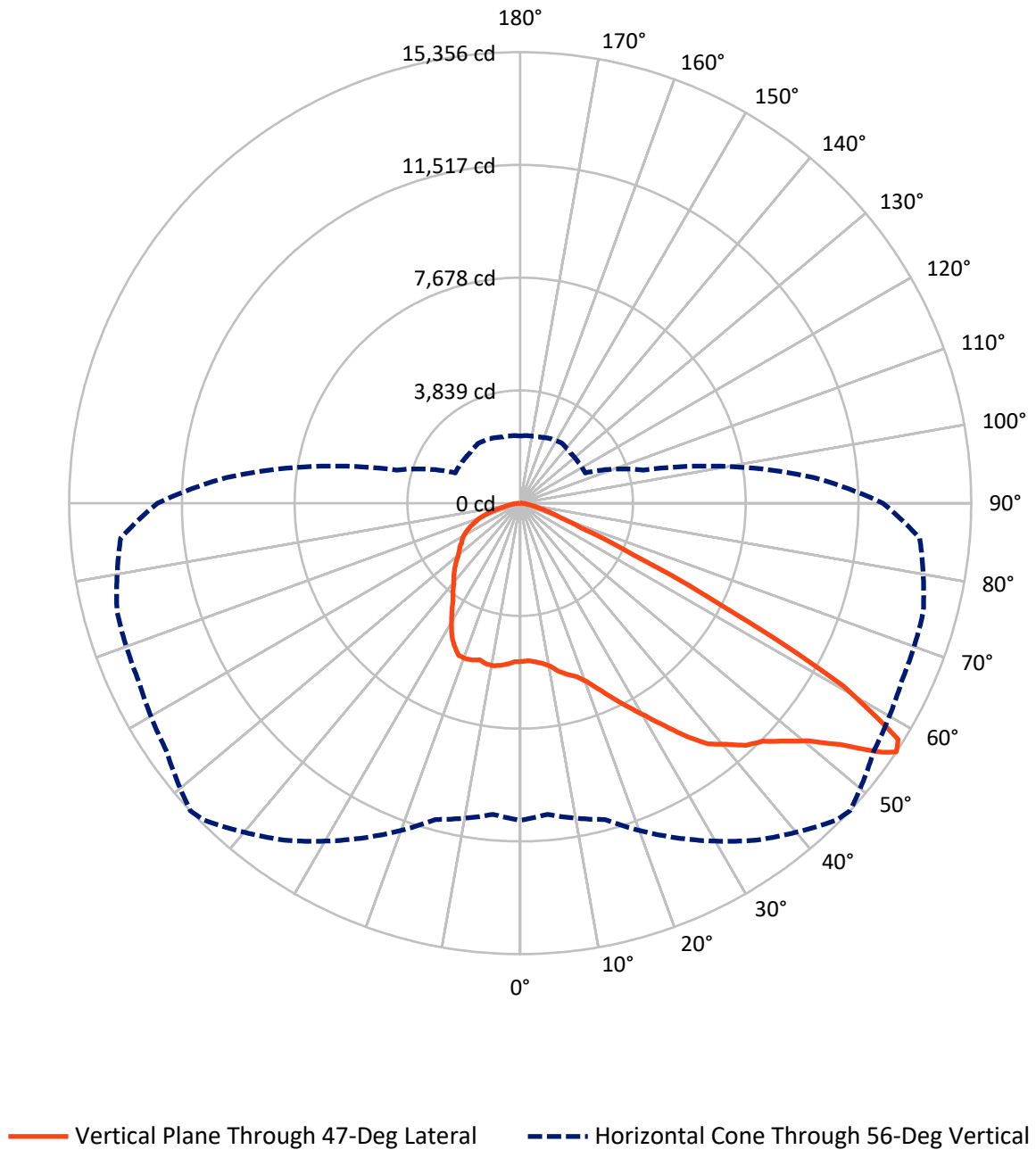
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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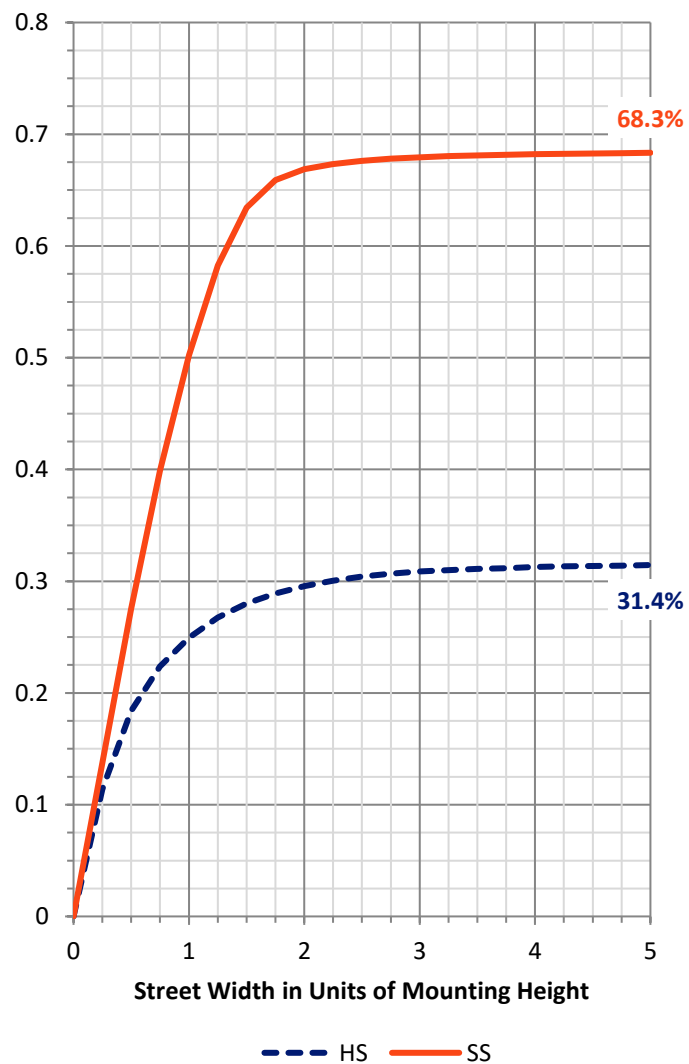
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8509.1	0.0	8509.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	18342.9	0.0	18342.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	26852.0	0.0	26852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.6	2.0
10°-20°	1657.8	6.2
20°-30°	2930.7	10.9
30°-40°	4401.8	16.4
40°-50°	6041.0	22.5
50°-60°	7197.0	26.8
60°-70°	3079.9	11.5
70°-80°	871.6	3.2
80°-90°	146.7	0.5
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°	26852.0	100.0
0°-180°	26852.0	100.0

Coefficient of Utilization



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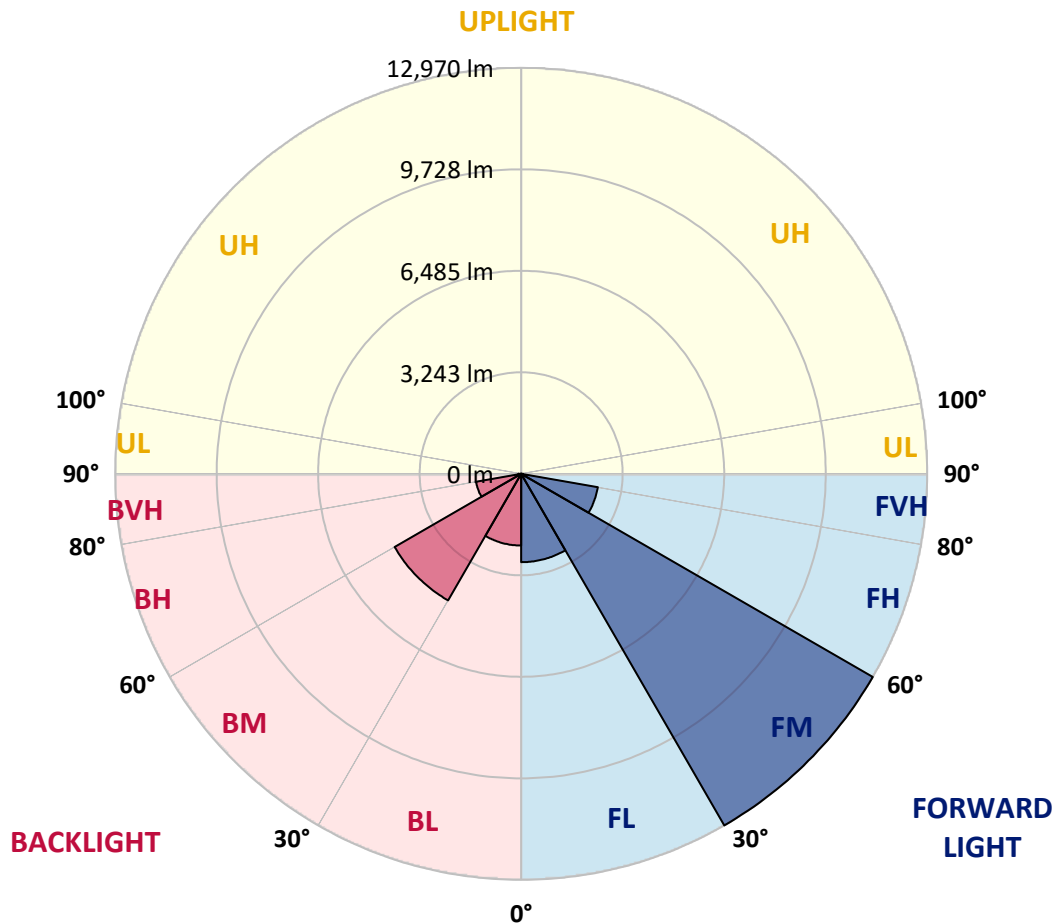
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2823.1	10.5			
FM	(30°-60°)	12970.1	48.3			
FH	(60°-80°)	2487.5	9.3			G2/5000
FVH	(80°-90°)	62.3	0.2			G1/100
BL	(0°-30°)	2291.0	8.5	B3/2500		
BM	(30°-60°)	4669.6	17.4	B3/5000		
BH	(60°-80°)	1464.0	5.5	B3/2500		G3/2500
BVH	(80°-90°)	84.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5393.8	5393.8	5393.8	5393.8	5393.8	5393.8	5393.8	5393.8	5393.8	5393.8	5393.8
2.5°	5373.2	5362.9	5356.1	5410.9	5390.3	5393.8	5373.2	5393.8	5407.4	5376.6	5421.1
5°	5362.9	5393.8	5366.4	5383.5	5428.0	5414.3	5428.0	5469.1	5458.8	5448.5	5434.8
7.5°	5458.8	5462.2	5482.8	5489.6	5503.3	5489.6	5510.2	5547.9	5537.6	5479.4	5486.2
10°	5595.8	5602.7	5606.1	5643.7	5667.7	5671.1	5647.2	5612.9	5609.5	5688.3	5633.5
12.5°	5753.3	5736.2	5777.3	5791.0	5818.4	5849.2	5880.0	5808.1	5852.6	5856.1	5791.0
15°	5982.8	5999.9	5952.0	5952.0	5962.2	5965.7	6051.3	6017.0	6010.2	5972.5	5999.9
17.5°	6325.2	6208.8	6205.4	6157.4	6150.6	6178.0	6208.8	6236.2	6328.7	6253.3	6106.1
20°	6575.2	6602.6	6503.3	6445.1	6455.4	6517.0	6486.2	6609.5	6674.6	6551.3	6407.4
22.5°	7017.0	6924.5	6948.5	6818.4	6828.7	6893.7	6890.3	7017.0	7054.7	6859.5	6650.6
25°	7315.0	7291.0	7311.5	7208.8	7222.5	7273.9	7356.0	7564.9	7503.3	7287.6	6804.7
27.5°	7749.9	7701.9	7684.8	7647.1	7633.4	7770.4	7866.3	8088.9	8044.4	7729.3	7078.7
30°	8195.1	8164.3	8181.4	8027.3	8082.1	8373.2	8400.6	8705.3	8684.8	8130.0	7383.4
32.5°	8503.3	8520.4	8551.2	8465.6	8708.8	8941.6	9034.1	9380.0	9397.1	8818.4	7972.5
35°	8999.9	8941.6	8958.8	9058.1	9171.1	9595.7	9746.4	9975.9	10119.7	9540.9	8537.5
37.5°	9311.5	9373.1	9301.2	9458.8	9753.3	10263.5	10400.5	10636.8	10787.5	10253.3	9308.1
40°	9797.8	9698.5	9749.8	9862.9	10164.2	10828.6	10790.9	11034.1	11082.0	10859.4	10027.2
42.5°	10321.8	10273.8	10201.9	10458.7	10712.2	11195.0	11270.4	11157.4	11400.5	11451.9	11054.6
45°	10948.5	11006.7	11017.0	11023.8	11246.4	11667.6	11564.9	11465.6	11746.4	12119.7	11691.6
47.5°	11530.6	11345.7	11479.3	11664.2	11979.3	11982.7	12102.5	11866.3	12164.2	12496.4	12266.9
50°	11725.8	11636.8	11814.9	12164.2	12650.5	12701.9	12715.6	12379.9	12534.0	12797.7	12465.6
52.5°	11650.5	11619.7	12075.2	12616.2	13328.6	13588.8	13657.3	13242.9	13328.6	13208.7	12903.9
55°	11290.9	11383.4	11842.3	12945.0	14037.5	14842.2	14972.4	14448.4	13903.9	13996.4	13660.7
56°	10797.8	10636.8	11150.5	12571.7	14006.6	15249.8	15355.9	14701.8	14332.0	14212.1	13653.9
57.5°	9160.8	8951.9	9626.6	11311.5	13229.2	15095.7	15174.4	14808.0	14260.1	14016.9	12657.3
60°	5362.9	5465.7	6321.8	7801.2	10205.3	12376.5	12640.2	12907.3	12540.9	11451.9	9421.1
62.5°	2589.0	2523.9	3136.9	4472.5	6219.1	7900.6	7821.8	8571.8	8982.7	8136.9	5948.5
65°	1356.1	1349.3	1712.3	2441.7	3417.8	4150.6	4222.5	4626.6	5191.7	4191.7	3020.5
67.5°	996.6	1024.0	1205.5	1715.7	2198.6	2243.1	2232.8	2434.9	2489.7	2106.1	1856.1
70°	780.8	794.5	928.1	1304.8	1637.0	1465.7	1434.9	1458.9	1619.8	1688.3	1606.1
72.5°	565.1	578.8	691.8	880.1	1024.0	1000.0	1020.5	1154.1	1352.7	1424.6	1339.0
75°	376.7	387.0	448.6	537.7	606.2	654.1	691.8	845.9	1030.8	1071.9	1030.8
77.5°	260.3	270.5	311.6	380.1	387.0	417.8	431.5	503.4	616.4	667.8	640.4
80°	147.3	147.3	167.8	195.2	239.7	280.8	287.7	345.9	397.3	431.5	438.3
82.5°	68.5	71.9	89.0	119.9	157.5	195.2	202.1	239.7	277.4	311.6	321.9
85°	34.2	37.7	51.4	71.9	95.9	116.4	113.0	116.4	123.3	116.4	119.9
87.5°	10.3	10.3	13.7	17.1	13.7	17.1	17.1	20.5	24.0	27.4	30.8
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°	5393.8	5393.8	5393.8	5393.8	5393.8	5393.8	5393.8	5393.8	5393.8	5393.8	5393.8
2.5°	5424.6	5434.8	5366.4	5431.4	5407.4	5404.0	5452.0	5445.1	5462.2	5455.4	5414.3
5°	5428.0	5404.0	5475.9	5410.9	5441.7	5506.8	5462.2	5565.0	5513.6	5547.9	5472.5
7.5°	5534.2	5541.0	5527.3	5554.7	5541.0	5571.8	5547.9	5571.8	5530.7	5534.2	5602.7
10°	5626.6	5606.1	5630.0	5595.8	5619.8	5609.5	5554.7	5537.6	5551.3	5534.2	5578.7
12.5°	5797.9	5760.2	5743.1	5702.0	5674.6	5571.8	5486.2	5438.3	5503.3	5513.6	5493.1
15°	5972.5	5975.9	5897.2	5804.7	5633.5	5479.4	5499.9	5517.0	5517.0	5544.4	5493.1
17.5°	6082.1	6082.1	6010.2	5825.3	5650.6	5561.6	5541.0	5486.2	5438.3	5431.4	5428.0
20°	6273.9	6215.7	6051.3	5821.8	5643.7	5602.7	5448.5	5318.4	5219.1	5184.9	5181.4
22.5°	6493.0	6345.8	6116.3	5828.7	5633.5	5575.3	5287.6	5092.4	4914.3	4839.0	4849.2
25°	6695.1	6458.8	6154.0	5797.9	5595.8	5315.0	4993.1	4722.5	4537.6	4476.0	4445.1
27.5°	6835.5	6578.7	6154.0	5825.3	5455.4	5023.9	4695.1	4349.2	4188.3	4147.2	4154.0
30°	7023.9	6729.3	6260.2	5767.0	5174.6	4647.2	4253.4	4027.3	3931.4	3897.2	3921.2
32.5°	7465.6	7123.2	6407.4	5626.6	4842.4	4270.5	3952.0	3825.3	3684.9	3616.4	3592.4
35°	7945.1	7496.5	6551.3	5390.3	4469.1	3928.0	3729.4	3613.0	3445.2	3369.8	3383.5
37.5°	8623.2	7975.9	6561.5	4999.9	4065.0	3736.2	3554.7	3373.2	3236.3	3119.8	3085.6
40°	9537.5	8630.0	6537.6	4589.0	3739.7	3510.2	3376.7	3150.6	2996.5	2914.3	2931.5
42.5°	10342.3	9397.1	6438.3	4123.2	3445.2	3356.1	3205.4	2982.8	2832.1	2746.5	2739.7
45°	11020.4	9962.2	6249.9	3726.0	3198.6	3184.9	3010.2	2839.0	2719.1	2640.4	2674.6
47.5°	11647.1	10417.6	5965.7	3328.7	2972.6	3000.0	2832.1	2726.0	2650.6	2578.7	2575.3
50°	11873.1	10410.8	5715.7	3000.0	2791.1	2777.4	2770.5	2657.5	2578.7	2517.1	2544.5
52.5°	12249.8	10527.2	5445.1	2773.9	2626.7	2630.1	2654.1	2571.9	2482.8	2445.2	2479.4
55°	12790.9	10544.4	4849.2	2510.2	2489.7	2513.7	2513.7	2458.9	2383.5	2352.7	2335.6
56°	12349.1	10034.1	4349.2	2441.7	2421.2	2421.2	2486.3	2424.6	2332.2	2308.2	2287.6
57.5°	11390.2	8791.0	3640.4	2359.6	2328.7	2376.7	2410.9	2345.9	2260.2	2226.0	2246.5
60°	7856.0	5948.5	2736.3	2181.5	2181.5	2260.2	2287.6	2191.7	2154.1	2150.7	2123.3
62.5°	4585.5	3465.7	2140.4	2020.5	2027.4	2092.4	2113.0	2058.2	2010.2	2068.5	2095.9
65°	2431.5	2068.5	1835.6	1849.3	1852.7	1904.1	1993.1	1989.7	1986.3	2003.4	2006.8
67.5°	1760.2	1719.2	1667.8	1654.1	1660.9	1698.6	1787.6	1856.1	1852.7	1811.6	1780.8
70°	1568.5	1510.3	1479.4	1482.9	1455.5	1500.0	1571.9	1616.4	1537.6	1489.7	1469.2
72.5°	1304.8	1287.7	1267.1	1270.5	1215.7	1205.5	1123.3	1123.3	1102.7	1089.0	1113.0
75°	996.6	989.7	1000.0	982.9	924.6	863.0	815.1	770.5	702.0	674.6	660.9
77.5°	630.1	650.7	674.6	637.0	613.0	568.5	520.5	476.0	421.2	390.4	390.4
80°	428.1	445.2	462.3	455.5	428.1	387.0	349.3	301.4	263.7	239.7	236.3
82.5°	325.3	339.0	363.0	335.6	308.2	274.0	243.1	208.9	174.7	147.3	147.3
85°	116.4	133.6	147.3	161.0	171.2	174.7	150.7	123.3	99.3	78.8	75.3
87.5°	30.8	34.2	37.7	34.2	34.2	34.2	37.7	34.2	30.8	24.0	24.0
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)