

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: P652570

Luminaire Tested: **GALN-SA8B-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28887.5 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 325  
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

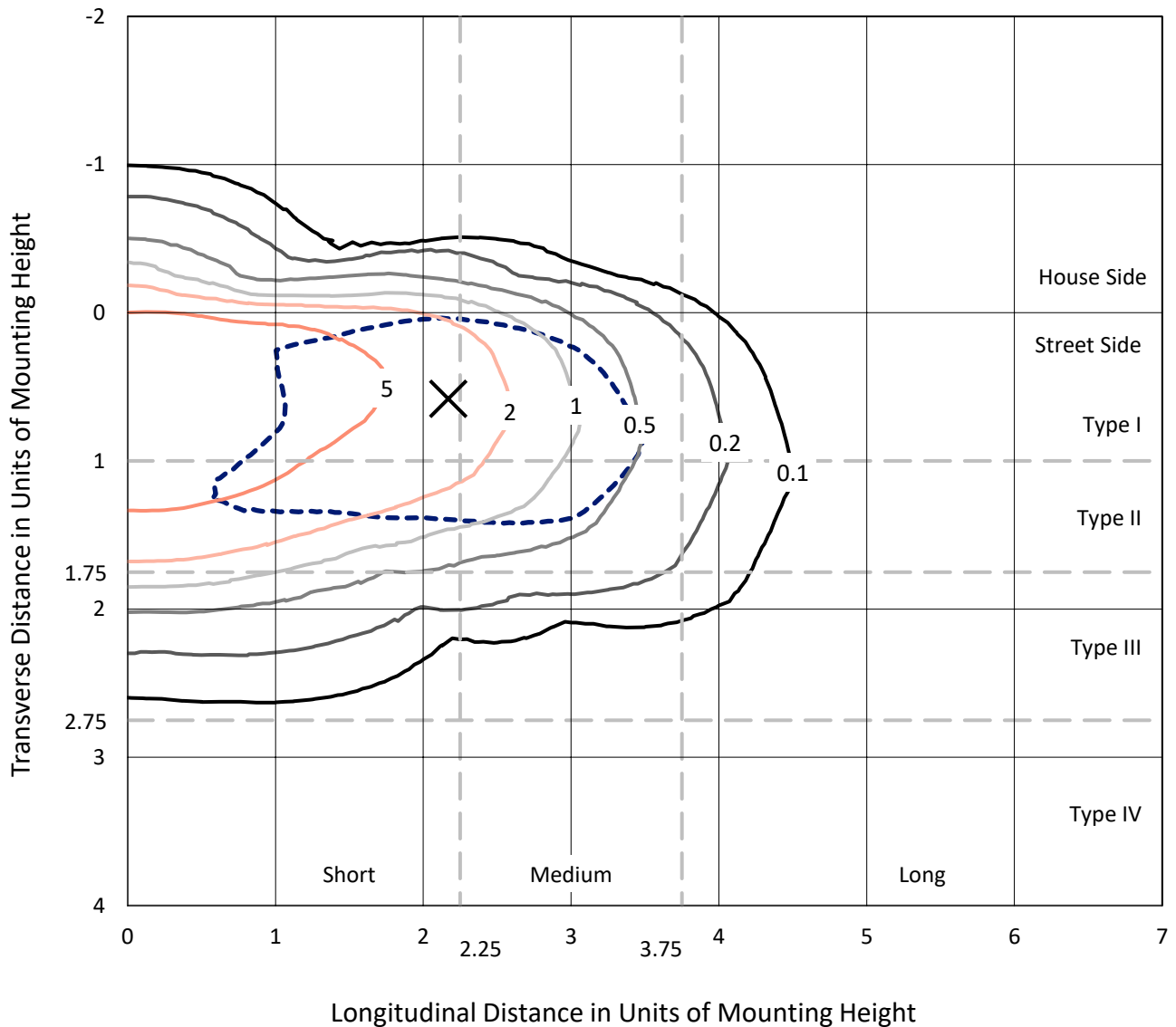




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### Iso-Footcandle Lines of Horizontal Illumination

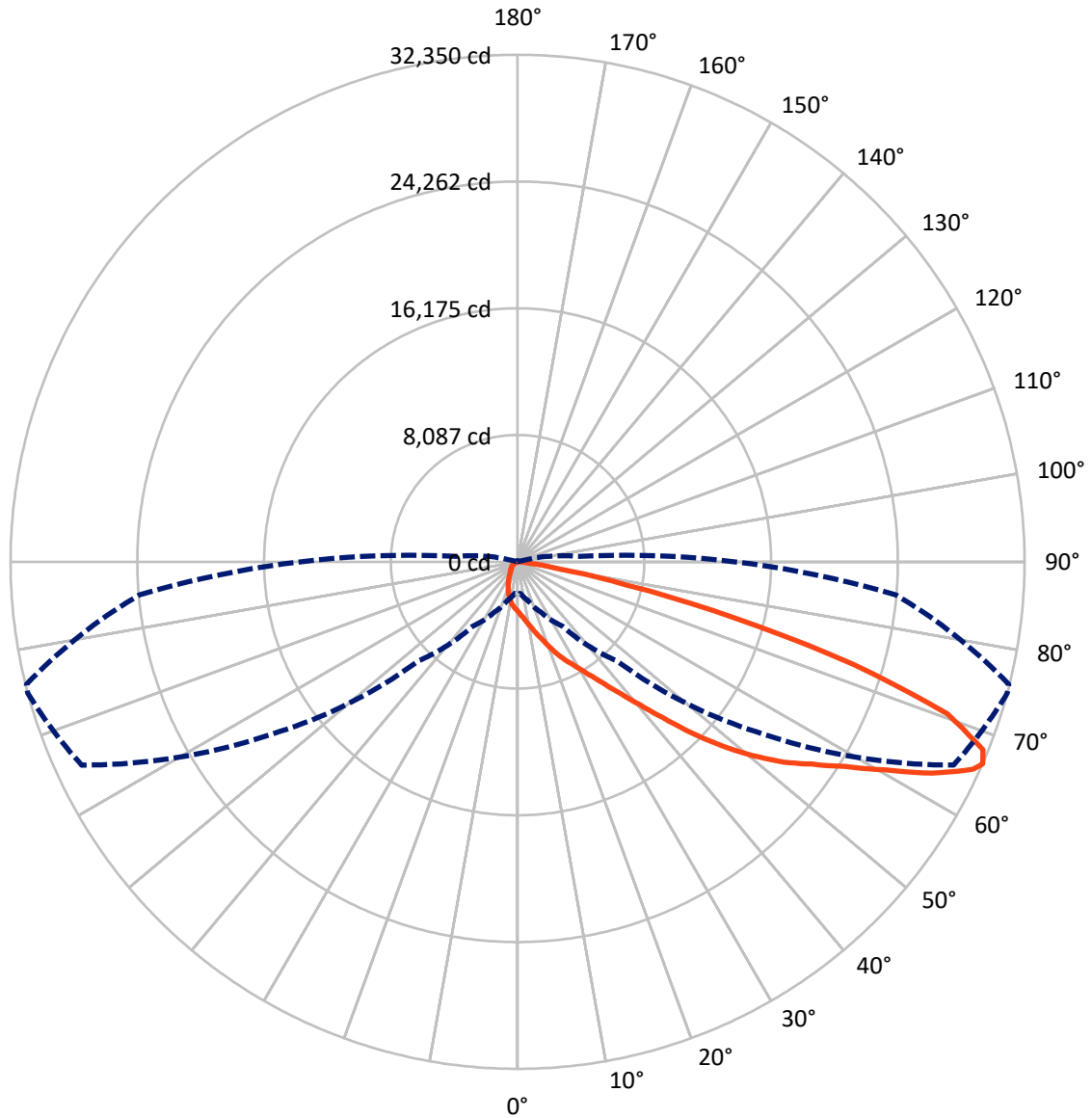
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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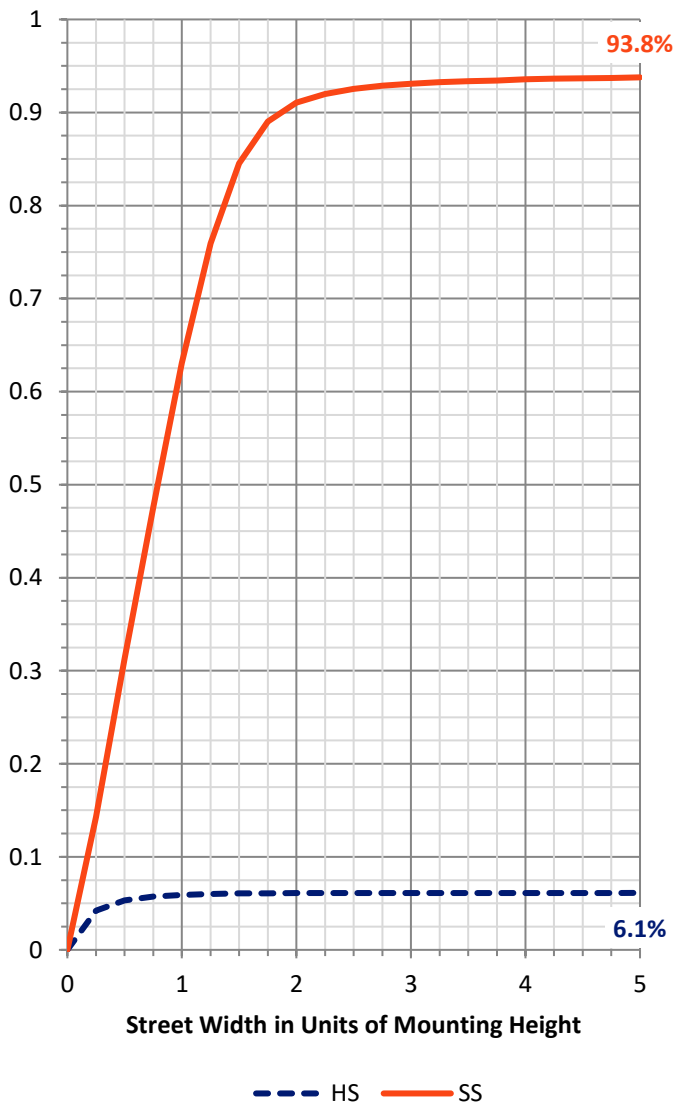
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1783.4	0.0	1783.4
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	27104.1	0.0	27104.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	28887.5	0.0	28887.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.7	1.1
10°-20°	896.8	3.1
20°-30°	1548.5	5.4
30°-40°	2793.2	9.7
40°-50°	5046.0	17.5
50°-60°	7866.7	27.2
60°-70°	7473.0	25.9
70°-80°	2800.7	9.7
80°-90°	158.0	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°	28887.5	100.0
0°-180°	28887.5	100.0

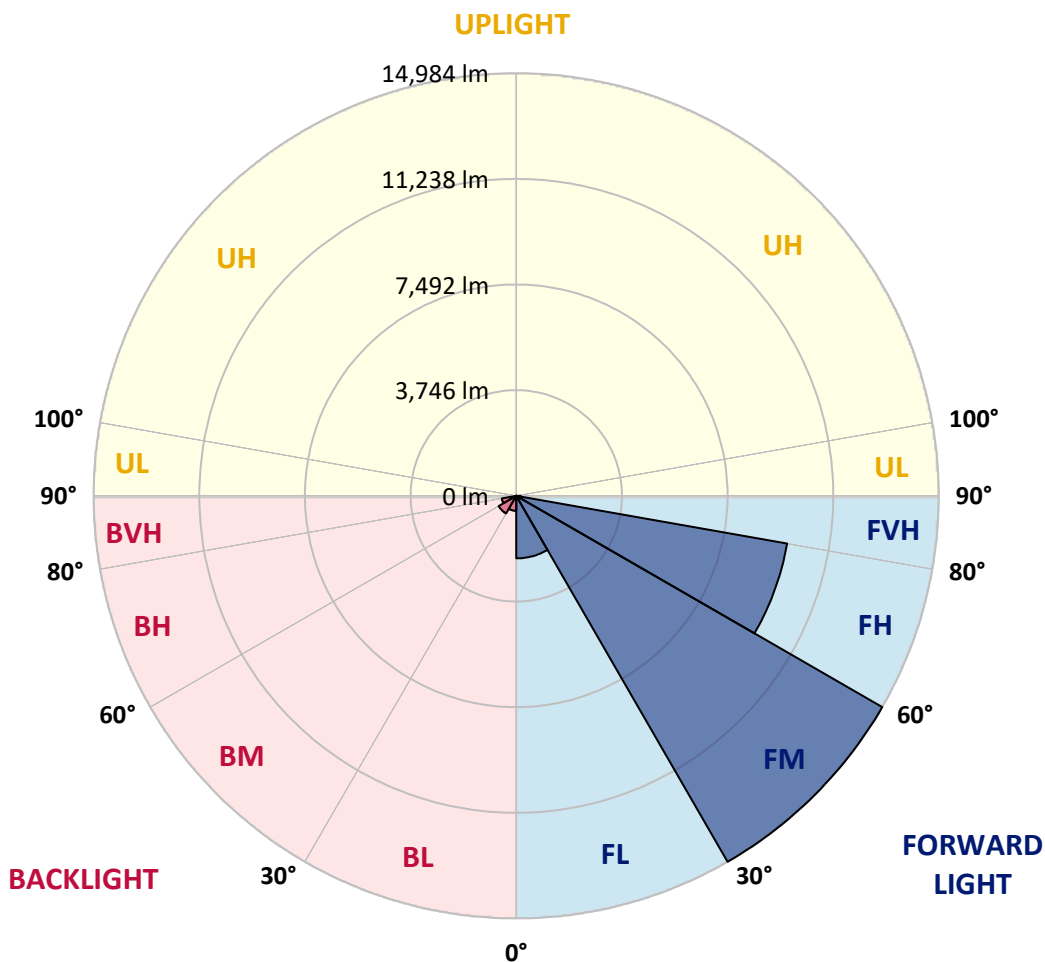


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2217.4	7.7			
FM (30°-60°)	14983.9	51.9			
FH (60°-80°)	9753.0	33.8			G4/12000
FVH (80°-90°)	149.9	0.5			G2/225
BL (0°-30°)	532.6	1.8	B2/1000		
BM (30°-60°)	721.9	2.5	B1/1000		
BH (60°-80°)	520.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.2	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-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3159.1	3159.1	3159.1	3159.1	3159.1	3159.1	3159.1	3159.1	3159.1	3159.1	3159.1
2.5°	3774.3	3727.3	3742.3	3720.9	3671.8	3599.1	3535.1	3443.2	3351.4	3336.4	3233.9
5°	4272.0	4259.2	4242.1	4180.1	4146.0	4034.9	3902.5	3744.4	3554.3	3520.1	3334.3
7.5°	4611.6	4605.2	4613.7	4581.7	4551.8	4451.4	4310.5	4094.7	3800.0	3780.7	3471.0
10°	4722.7	4739.8	4771.8	4823.1	4870.1	4838.0	4731.2	4462.1	4118.2	4062.6	3626.9
12.5°	4658.6	4677.8	4754.8	4891.4	5043.1	5130.7	5088.0	4891.4	4455.7	4410.8	3802.1
15°	4494.1	4517.6	4626.6	4838.0	5109.3	5357.1	5463.9	5322.9	4848.7	4776.1	4013.5
17.5°	4250.7	4284.8	4440.7	4720.5	5092.2	5519.4	5820.6	5773.5	5267.4	5199.0	4244.2
20°	4066.9	4092.6	4225.0	4545.4	5019.6	5609.1	6160.2	6292.6	5784.2	5666.8	4515.5
22.5°	4188.7	4197.3	4242.1	4434.3	4889.3	5632.6	6459.2	6833.0	6333.2	6228.5	4797.4
25°	4784.6	4699.2	4654.3	4611.6	4861.5	5611.2	6730.5	7396.9	6880.1	6769.0	5077.3
27.5°	5724.4	5686.0	5459.6	5156.3	5098.6	5639.0	6909.9	7931.0	7394.8	7275.2	5350.7
30°	6747.6	6681.4	6542.6	6098.3	5651.9	5835.5	7040.3	8450.0	8003.5	7845.5	5600.6
32.5°	7687.4	7730.1	7523.0	7065.8	6549.0	6254.2	7209.0	9016.0	8702.1	8505.5	5891.0
35°	8783.2	8868.7	8550.4	8112.5	7508.0	7010.3	7537.9	9654.7	9588.5	9340.7	6339.6
37.5°	9896.0	9947.3	9752.9	9137.8	8593.1	7971.5	8157.4	10442.9	10679.9	10468.5	6875.8
40°	10831.7	10902.1	10759.0	10212.2	9631.2	9084.4	9056.6	11301.5	11978.6	11760.8	7674.6
42.5°	11547.2	11600.6	11604.9	11218.3	10694.9	10447.2	10203.6	12397.3	13606.3	13354.2	8601.7
45°	12450.7	12527.6	12482.7	12220.0	11829.2	11784.3	11658.3	13721.6	15554.3	15236.1	9804.2
47.5°	13847.7	13898.9	13787.9	13478.1	13080.8	13151.3	13076.5	15206.1	17540.8	17267.4	11049.5
50°	14817.4	14902.9	15060.9	15184.8	14896.4	14635.8	14413.6	16592.4	19426.8	19181.2	12322.6
52.5°	14806.7	14947.7	15447.5	16071.3	16701.3	16622.3	15983.6	18123.9	21227.5	20924.2	13518.7
55°	13809.2	14082.6	14817.4	15923.8	17668.9	18538.3	18247.8	19896.8	22782.5	22577.5	14905.0
57.5°	11750.1	11916.7	12937.7	14484.2	17128.6	19439.7	20870.8	22299.8	24647.3	24551.1	17058.1
60°	7903.2	7978.0	9291.5	11203.3	14582.4	18540.4	22793.2	25206.9	26943.5	26896.4	19572.1
62.5°	4528.3	4560.3	5513.0	7125.7	10376.7	15712.4	22955.5	28793.2	29696.7	29722.4	22481.4
65°	2437.1	2454.3	3223.2	4182.3	6314.0	11199.0	20642.3	30758.3	31922.4	31971.5	24284.1
66°	2103.9	2022.8	2565.3	3565.0	5023.9	8913.5	19179.1	30687.8	32349.7	32296.3	24220.0
67.5°	1599.8	1672.5	2048.4	2740.5	3723.0	6337.5	15834.1	29322.9	32024.9	31858.3	23235.3
70°	1144.9	1174.8	1458.9	1954.4	2535.4	3477.4	10118.2	24354.6	29107.2	28882.9	20242.8
72.5°	739.1	771.1	1033.8	1414.1	1832.7	1898.9	5664.6	17596.3	22440.7	22408.7	15244.6
75°	527.6	557.5	683.5	1012.5	1377.7	1174.8	2727.7	11859.0	14266.3	14170.2	9430.4
77.5°	382.3	397.3	457.1	662.1	984.7	841.6	1264.5	6333.2	7102.2	7437.6	4167.3
80°	220.0	232.8	318.2	403.7	666.4	574.6	604.5	2541.8	2620.9	2494.8	1303.0
82.5°	108.9	123.9	190.1	275.5	416.5	386.6	277.7	764.7	807.4	786.1	328.9
85°	25.7	32.0	106.8	181.6	202.9	173.0	134.6	224.3	277.7	271.3	126.0
87.5°	2.1	4.3	38.4	32.0	34.1	57.7	47.0	57.7	89.7	83.3	44.8
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°	3159.1	3159.1	3159.1	3159.1	3159.1	3159.1	3159.1	3159.1	3159.1	3159.1	3159.1
2.5°	3186.9	3146.3	3028.9	2913.5	2817.4	2717.0	2625.1	2571.8	2550.4	2526.9	2537.5
5°	3231.8	3133.5	2896.4	2691.4	2490.5	2319.7	2183.0	2095.4	2052.7	2046.3	2035.6
7.5°	3291.6	3122.8	2755.5	2435.0	2172.3	1982.2	1826.3	1700.2	1661.8	1627.6	1599.8
10°	3364.2	3103.6	2580.3	2165.9	1886.1	1646.8	1441.8	1292.3	1215.4	1194.1	1208.9
12.5°	3441.1	3067.3	2396.6	1918.2	1595.6	1290.2	1100.0	1025.3	1003.9	995.4	997.5
15°	3518.0	3022.5	2204.3	1678.9	1270.9	1029.6	942.0	922.7	914.2	910.0	905.7
17.5°	3588.5	2949.8	1988.6	1446.1	1029.6	880.0	848.0	830.9	813.8	807.4	796.8
20°	3671.8	2866.5	1794.3	1185.5	871.4	796.8	758.2	726.2	700.6	683.5	681.4
22.5°	3750.8	2759.7	1591.3	982.5	794.6	715.5	653.6	619.4	589.5	568.2	574.6
25°	3793.5	2629.4	1409.8	856.6	724.1	634.4	566.1	523.4	491.3	480.6	478.4
27.5°	3793.5	2469.2	1232.5	783.9	660.0	561.8	491.3	450.7	429.3	414.4	416.5
30°	3763.6	2291.9	1068.0	728.4	604.5	497.7	431.4	395.2	378.0	367.4	365.2
32.5°	3740.1	2123.2	927.0	675.0	546.8	442.1	384.5	356.8	339.6	328.9	328.9
35°	3776.4	1977.9	818.1	621.6	493.4	399.4	348.2	322.5	305.5	296.9	294.8
37.5°	3872.6	1845.5	734.8	563.9	444.3	363.1	322.5	292.7	275.5	264.8	260.6
40°	4109.6	1770.7	672.8	510.5	397.3	333.2	292.7	264.8	243.5	232.8	230.7
42.5°	4489.8	1772.9	613.0	461.4	361.0	307.6	267.0	235.0	211.4	200.7	198.6
45°	5062.3	1854.1	566.1	414.4	328.9	279.8	239.3	205.0	183.7	173.0	173.0
47.5°	5748.0	2012.1	525.5	373.8	299.1	254.2	211.4	177.3	155.9	147.3	147.3
50°	6491.3	2217.1	484.8	331.1	273.4	226.4	181.6	153.8	136.7	130.3	130.3
52.5°	7249.6	2465.0	444.3	296.9	245.7	196.5	155.9	136.7	121.8	117.5	115.4
55°	8244.9	2781.1	401.6	260.6	215.7	168.7	138.8	119.6	102.5	96.1	94.0
57.5°	9776.5	3257.4	354.6	228.6	177.3	141.0	119.6	100.4	81.2	70.5	68.4
60°	11624.0	3838.4	305.5	200.7	143.1	115.4	96.1	76.9	59.8	47.0	44.8
62.5°	13354.2	4207.9	258.4	168.7	113.2	87.5	68.4	57.7	42.7	29.9	27.8
65°	14119.0	4084.0	213.6	136.7	89.7	62.0	44.8	40.6	25.7	12.8	10.7
66°	13864.7	3900.3	196.5	123.9	81.2	53.4	38.4	34.1	19.3	6.4	6.4
67.5°	13115.0	3466.7	170.9	106.8	70.5	42.7	29.9	25.7	10.7	2.1	0.0
70°	11237.4	2804.6	134.6	79.1	51.3	29.9	17.1	12.8	6.4	0.0	0.0
72.5°	8631.5	2089.0	106.8	59.8	36.3	17.1	8.6	4.3	6.4	0.0	0.0
75°	5288.7	1194.1	83.3	44.8	23.5	10.7	6.4	0.0	6.4	2.1	0.0
77.5°	2347.5	536.1	55.5	29.9	17.1	8.6	4.3	0.0	4.3	2.1	0.0
80°	593.8	175.2	32.0	21.4	12.8	6.4	2.1	0.0	4.3	4.3	2.1
82.5°	162.3	64.1	23.5	17.1	10.7	6.4	2.1	0.0	4.3	4.3	4.3
85°	64.1	29.9	21.4	17.1	12.8	6.4	2.1	0.0	4.3	4.3	4.3
87.5°	29.9	21.4	21.4	19.3	15.0	6.4	2.1	0.0	4.3	2.1	4.3
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)