

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: P300943

Luminaire Tested: **GLNA-AF-08-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300943
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-08-LED-E1-SL4-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35298.8 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

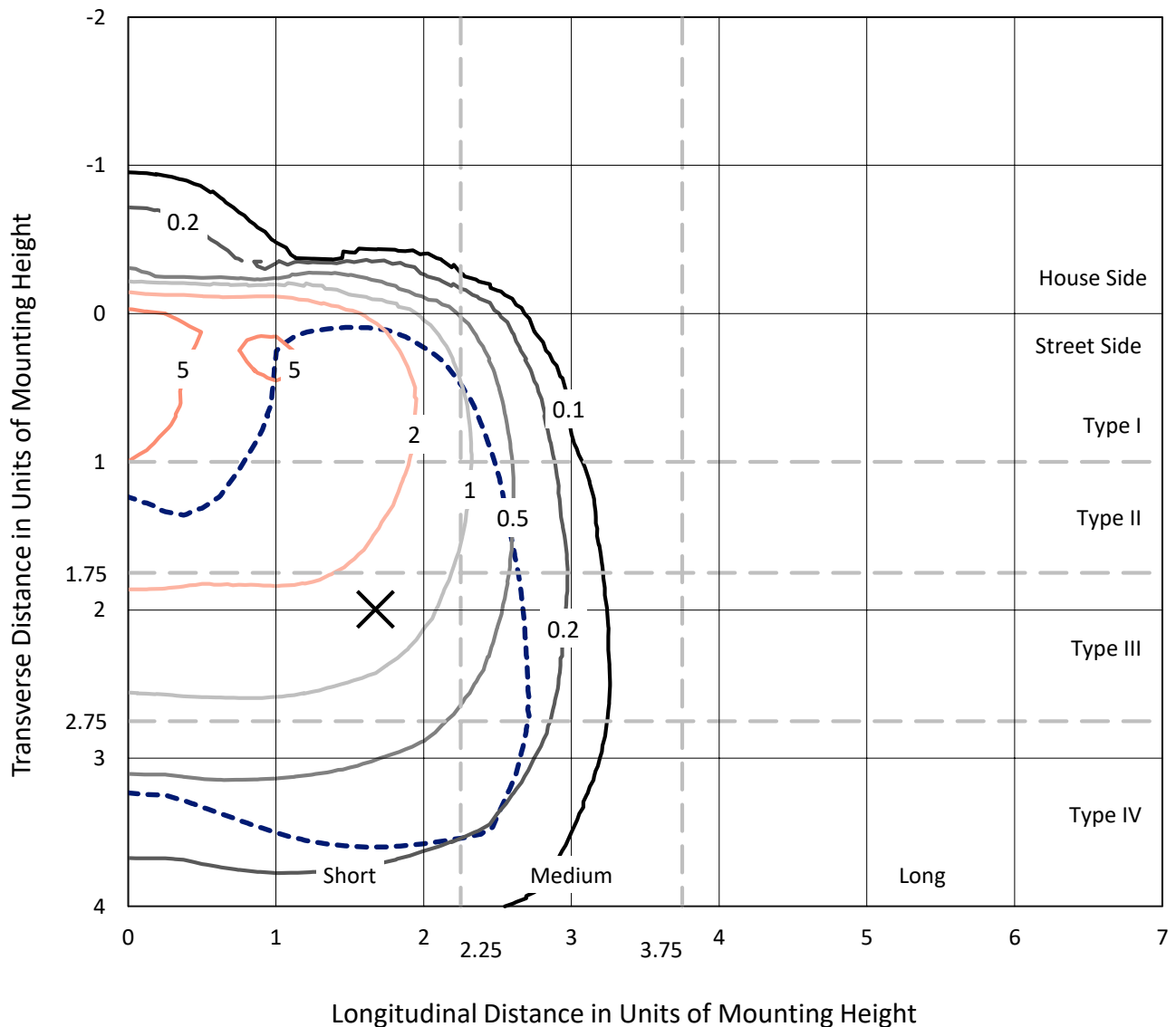
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

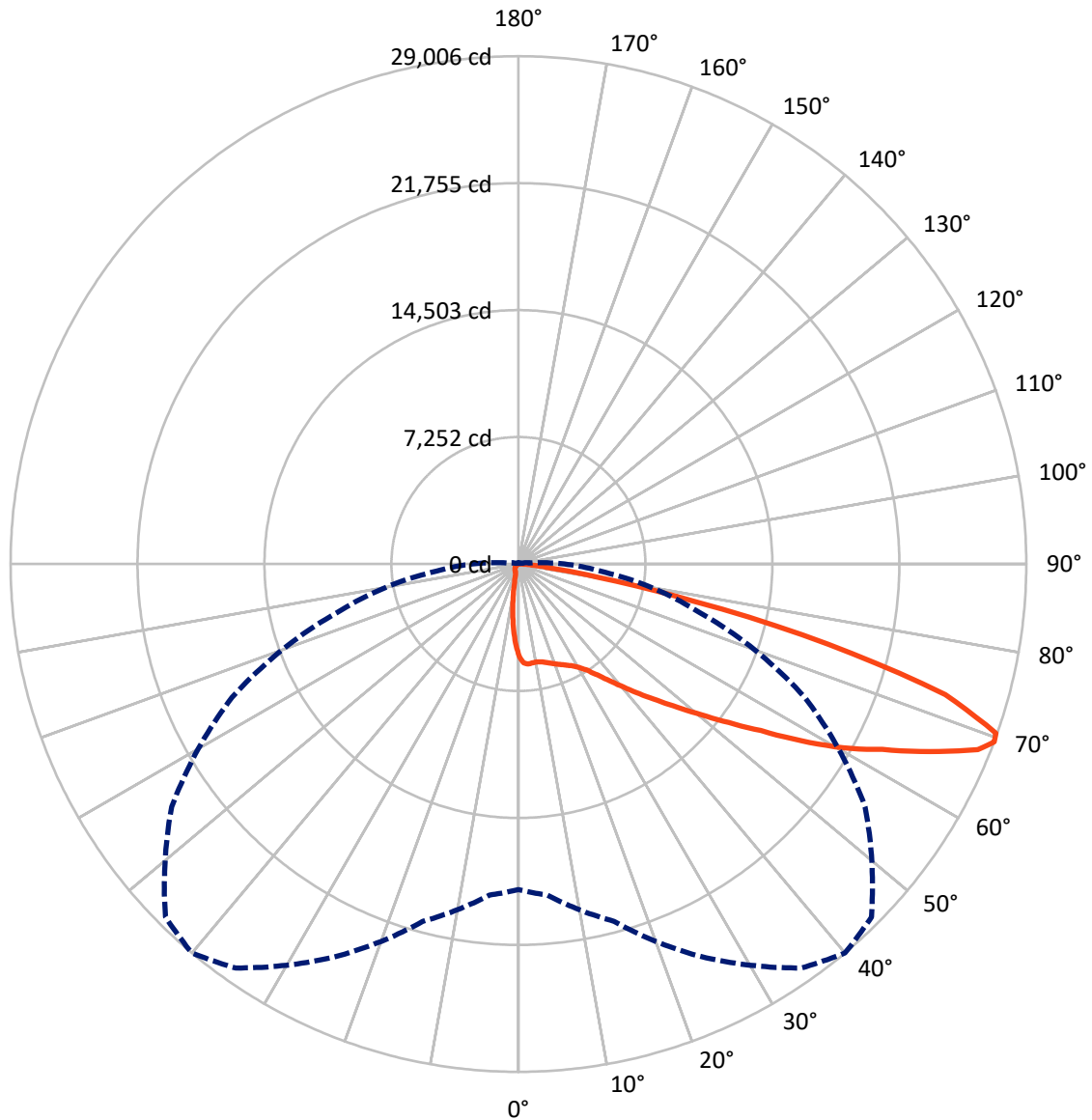
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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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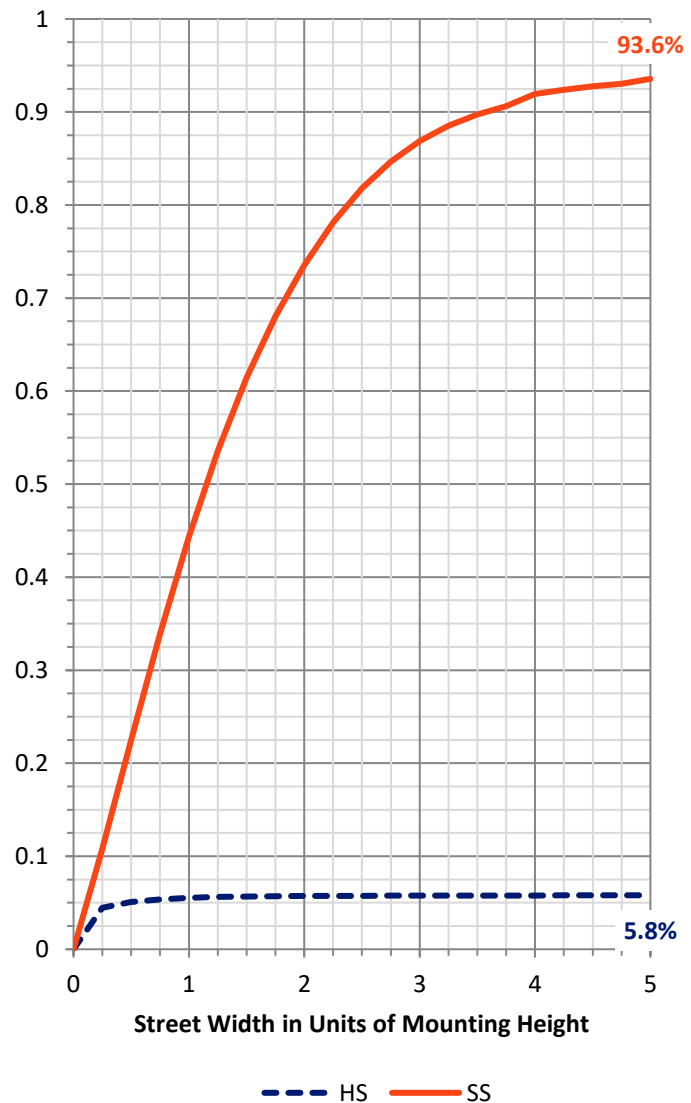
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2065.2	0.0	2065.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	33233.6	0.0	33233.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	35298.8	0.0	35298.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.6	1.2
10°-20°	1051.6	3.0
20°-30°	1771.2	5.0
30°-40°	2899.5	8.2
40°-50°	5020.4	14.2
50°-60°	7907.6	22.4
60°-70°	10326.9	29.3
70°-80°	5318.8	15.1
80°-90°	575.3	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°	35298.8	100.0
0°-180°	35298.8	100.0

Coefficient of Utilization



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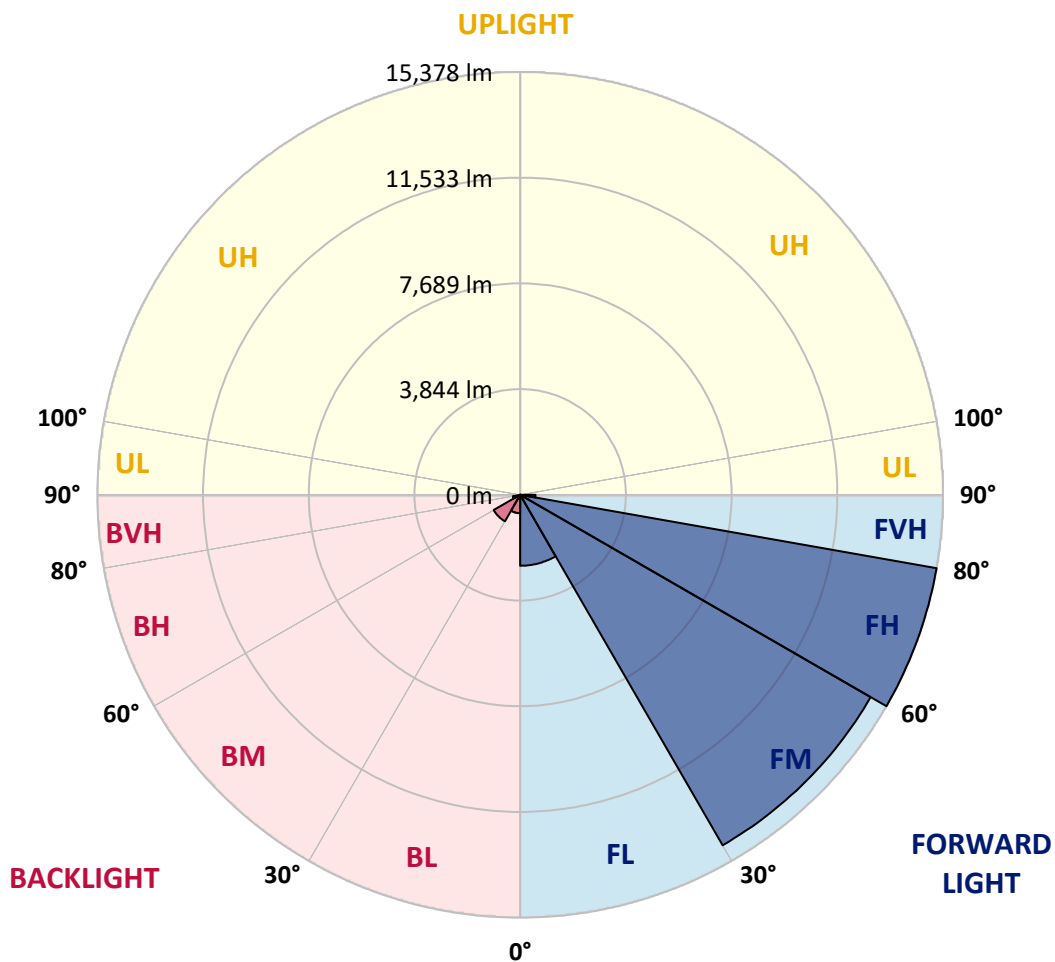
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2581.4	7.3			
FM	(30°-60°)	14717.4	41.7			
FH	(60°-80°)	15377.6	43.6			G5
FVH	(80°-90°)	557.3	1.6			G4/750
BL	(0°-30°)	669.0	1.9	B2/1000		
BM	(30°-60°)	1110.0	3.1	B2/2500		
BH	(60°-80°)	268.1	0.8	B1/500		G1/500
BVH	(80°-90°)	18.1	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°	5273.8	5273.8	5273.8	5273.8	5273.8	5273.8	5273.8	5273.8	5273.8	5273.8	5273.8
2.5°	5790.7	5759.2	5740.3	5715.1	5683.5	5656.2	5645.7	5568.0	5494.4	5393.6	5278.0
5°	5897.9	5887.4	5853.7	5820.1	5782.3	5740.3	5717.2	5624.7	5519.7	5372.6	5170.9
7.5°	5908.4	5895.8	5853.7	5807.5	5755.0	5704.6	5664.6	5572.2	5475.5	5326.4	5080.5
10°	5891.6	5876.9	5845.3	5794.9	5729.8	5681.4	5641.5	5553.3	5471.3	5336.9	5063.7
12.5°	5872.6	5857.9	5843.2	5818.0	5761.3	5727.7	5694.1	5610.0	5536.5	5423.0	5124.6
15°	5891.6	5883.2	5900.0	5889.5	5857.9	5828.5	5794.9	5719.3	5652.0	5557.5	5236.0
17.5°	5971.4	5971.4	6023.9	6030.2	6000.8	5958.8	5910.5	5834.8	5778.1	5698.3	5368.4
20°	6158.4	6152.1	6219.3	6231.9	6160.5	6095.4	6023.9	5931.5	5887.4	5836.9	5498.6
22.5°	6479.9	6450.5	6490.4	6477.8	6337.0	6236.1	6147.9	6034.4	6011.3	5988.2	5643.6
25°	6898.0	6881.2	6908.5	6784.5	6536.6	6400.0	6295.0	6166.8	6166.8	6189.9	5807.5
27.5°	7505.2	7442.2	7349.7	7131.2	6759.3	6584.9	6471.5	6334.9	6370.6	6456.8	6023.9
30°	8127.2	8057.8	7845.6	7509.4	7030.4	6847.6	6715.2	6572.3	6656.4	6814.0	6313.9
32.5°	8740.7	8662.9	8362.5	7938.1	7419.1	7236.3	7108.1	6950.5	7091.3	7356.0	6738.3
35°	9335.3	9266.0	8919.3	8419.2	7936.0	7784.7	7667.0	7530.4	7711.1	8080.9	7337.1
37.5°	10003.5	9927.8	9505.5	8963.4	8564.2	8454.9	8368.8	8232.2	8547.4	9089.5	8171.3
40°	10825.0	10696.8	10127.4	9587.4	9291.2	9238.7	9179.8	9160.9	9650.5	10400.6	9282.8
42.5°	11766.3	11556.2	10778.8	10245.1	10089.6	10127.4	10112.7	10196.8	11030.9	12031.0	10635.9
45°	12707.6	12436.6	11503.7	10946.9	10967.9	11100.3	11182.2	11518.4	12760.1	13901.1	12092.0
47.5°	13506.0	13239.2	12199.1	11705.4	11957.5	12218.0	12440.8	13077.4	14537.7	15741.6	13224.5
50°	14188.9	13936.8	12936.6	12539.5	13106.8	13527.1	13888.4	14831.9	16449.7	17143.1	14018.7
52.5°	14747.8	14579.7	13701.4	13495.5	14420.0	15035.7	15565.1	16695.5	18143.2	18281.9	14636.4
55°	15292.0	15172.2	14523.0	14632.2	15962.3	16800.6	17470.9	18672.7	19601.4	19231.6	15229.0
57.5°	15918.1	15808.9	15460.1	16073.6	17989.8	19044.6	19775.8	20425.0	20885.2	20202.3	15787.9
60°	16556.9	16493.8	16502.2	17674.7	20317.9	21330.6	21734.1	21902.1	22145.9	21116.3	15819.4
62.5°	17166.2	17286.0	17693.6	19456.4	22547.2	23324.6	23528.4	23694.4	23408.6	21261.3	14615.4
65°	18197.9	18393.3	19366.1	21841.2	24999.2	25831.2	26041.4	25472.0	23608.3	19387.1	11888.2
67.5°	18702.1	19059.3	20794.8	24064.2	27377.7	28302.2	28224.4	25587.5	21185.7	14783.5	7629.2
69°	18597.1	18977.4	21124.7	24745.0	28167.7	29006.0	28512.3	24173.5	18048.7	10709.4	4683.4
70°	18181.0	18565.6	20954.5	24719.8	28268.6	28932.5	27978.6	22427.4	15260.5	7830.9	2929.0
72.5°	15182.7	15514.7	18603.4	22343.4	26041.4	25501.4	23406.5	15537.8	7435.9	2132.6	659.8
75°	9345.8	9530.7	13348.5	16832.1	19668.6	18281.9	15594.6	7730.0	2216.7	603.0	365.6
77.5°	4937.6	5021.7	7307.7	9921.5	12468.1	10316.5	7992.7	3015.1	1021.1	378.2	264.7
80°	2918.5	2981.5	3935.4	4536.3	5395.7	4506.9	3195.8	1851.1	731.2	237.4	235.3
82.5°	1670.4	1710.3	2853.3	2521.4	2126.3	1815.4	1590.6	1754.4	439.1	159.7	243.7
85°	613.5	621.9	1605.3	1918.3	1264.9	752.2	790.0	1454.0	117.7	100.9	191.2
87.5°	285.8	279.4	825.7	1174.5	739.6	477.0	615.6	319.4	46.2	65.1	52.5
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°	5273.8	5273.8	5273.8	5273.8	5273.8	5273.8	5273.8	5273.8	5273.8	5273.8	5273.8
2.5°	5210.8	5133.1	4992.3	4847.3	4700.2	4586.8	4475.4	4387.2	4357.7	4303.1	4307.3
5°	5051.1	4908.2	4614.1	4315.7	4004.7	3748.4	3506.8	3311.4	3216.8	3120.2	3120.2
7.5°	4912.4	4704.4	4244.3	3758.9	3256.7	2834.4	2454.1	2168.4	2010.8	1884.7	1882.6
10°	4859.9	4578.4	3935.4	3239.9	2540.3	1964.6	1512.8	1222.9	1073.7	977.0	972.8
12.5°	4883.0	4534.2	3698.0	2760.9	1882.6	1262.8	876.2	689.2	626.1	596.7	596.7
15°	4950.3	4521.6	3460.6	2292.3	1330.0	790.0	582.0	531.6	527.4	527.4	527.4
17.5°	5032.2	4525.8	3216.8	1836.4	905.6	565.2	502.2	495.9	500.1	500.1	500.1
20°	5116.2	4527.9	2954.2	1414.1	638.7	491.7	472.8	470.7	474.9	474.9	477.0
22.5°	5219.2	4538.4	2691.5	1056.9	527.4	464.3	449.6	449.6	451.7	451.7	449.6
25°	5336.9	4559.4	2418.4	783.7	481.2	445.4	432.8	430.7	432.8	430.7	428.6
27.5°	5483.9	4588.9	2113.7	613.5	460.1	426.5	416.0	416.0	413.9	411.8	409.7
30°	5668.8	4622.5	1771.2	521.1	439.1	409.7	399.2	397.1	395.0	390.8	390.8
32.5°	5950.4	4696.0	1433.0	472.8	416.0	386.6	378.2	378.2	374.0	369.8	367.7
35°	6383.2	4841.0	1130.4	443.3	390.8	361.4	350.9	350.9	346.7	344.6	342.5
37.5°	6982.0	5061.6	878.3	416.0	365.6	334.1	323.6	321.5	317.3	313.1	311.0
40°	7778.4	5334.8	691.3	390.8	340.4	306.8	298.4	294.2	285.8	279.4	279.4
42.5°	8778.5	5645.7	561.0	363.5	311.0	281.6	275.2	268.9	254.2	247.9	245.8
45°	9824.9	5925.2	474.9	332.0	281.6	256.3	252.1	241.6	222.7	216.4	216.4
47.5°	10579.2	5990.3	418.1	302.6	254.2	229.0	226.9	208.0	191.2	187.0	184.9
50°	11049.8	5862.1	371.9	273.1	229.0	203.8	197.5	174.4	163.9	159.7	157.6
52.5°	11367.1	5633.1	334.1	247.9	205.9	180.7	166.0	149.2	140.8	136.6	136.6
55°	11621.3	5309.5	296.3	224.8	187.0	161.8	140.8	128.2	119.8	115.6	115.6
57.5°	11692.8	4870.4	258.4	205.9	168.1	142.9	119.8	111.4	100.9	98.8	98.8
60°	11173.8	4078.3	229.0	182.8	151.3	124.0	105.1	94.6	84.0	81.9	79.8
62.5°	9806.0	3155.9	201.7	161.8	132.4	107.2	90.3	77.7	69.3	69.3	69.3
65°	7480.0	2115.8	176.5	140.8	115.6	90.3	77.7	63.0	58.8	58.8	60.9
67.5°	4477.5	1151.4	151.3	119.8	98.8	75.6	65.1	54.6	52.5	54.6	54.6
69°	2624.3	676.6	136.6	107.2	86.1	67.2	56.7	48.3	52.5	54.6	54.6
70°	1620.0	455.9	126.1	96.7	77.7	60.9	52.5	46.2	50.4	52.5	52.5
72.5°	451.7	235.3	100.9	75.6	63.0	50.4	42.0	42.0	48.3	50.4	50.4
75°	294.2	174.4	77.7	56.7	48.3	39.9	35.7	39.9	46.2	48.3	48.3
77.5°	243.7	142.9	63.0	46.2	39.9	37.8	33.6	35.7	42.0	44.1	44.1
80°	222.7	100.9	50.4	42.0	35.7	33.6	31.5	29.4	37.8	39.9	39.9
82.5°	212.2	79.8	44.1	37.8	33.6	29.4	27.3	29.4	33.6	35.7	37.8
85°	132.4	52.5	39.9	35.7	29.4	27.3	27.3	27.3	31.5	33.6	33.6
87.5°	48.3	42.0	35.7	29.4	25.2	25.2	25.2	25.2	27.3	31.5	31.5
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)