

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: P301003

Luminaire Tested: **GLNA-AF-08-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301003
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-SL4-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28783.4 lumens
Efficiency: N/A
Efficacy: 112.0 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

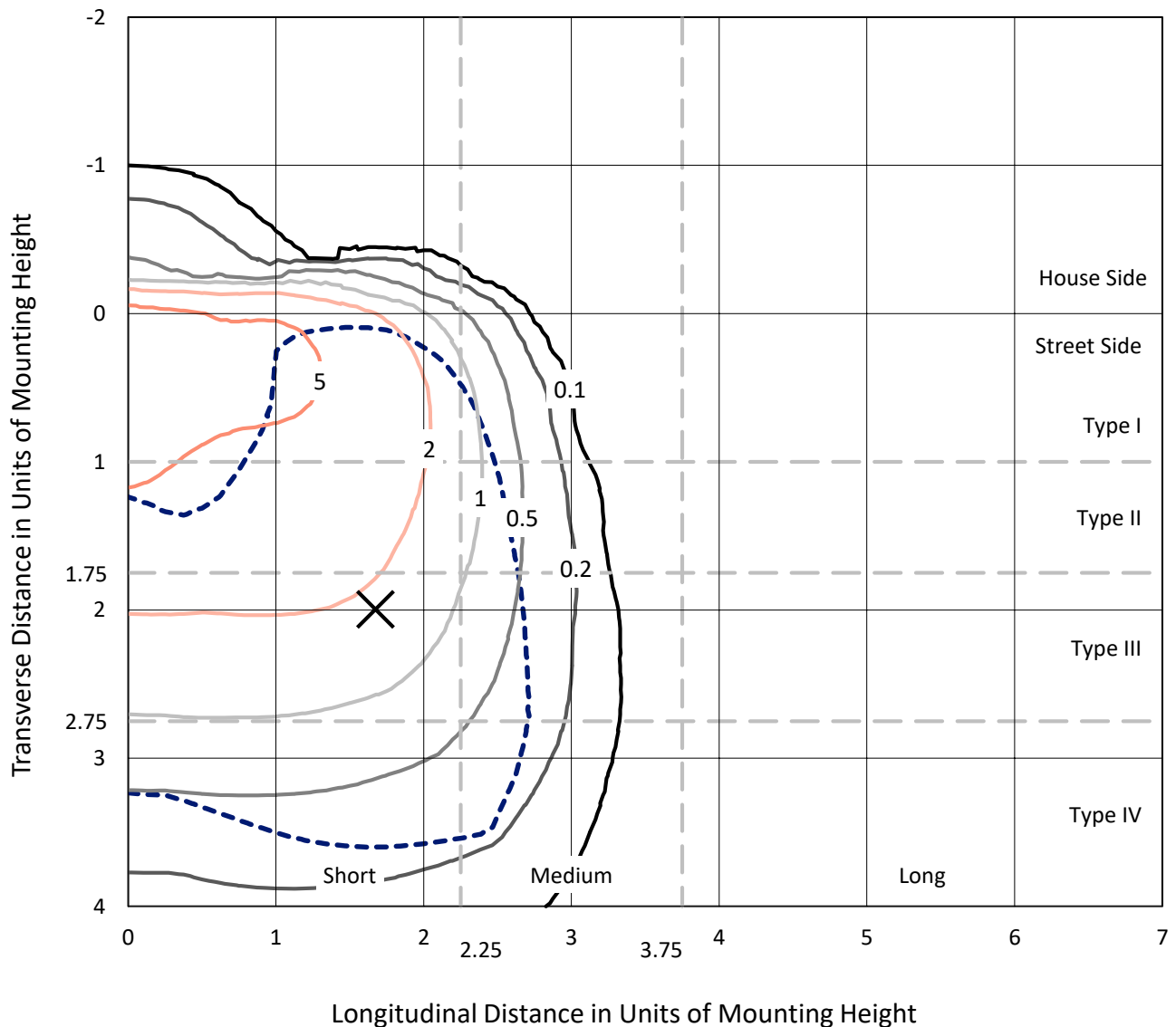
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

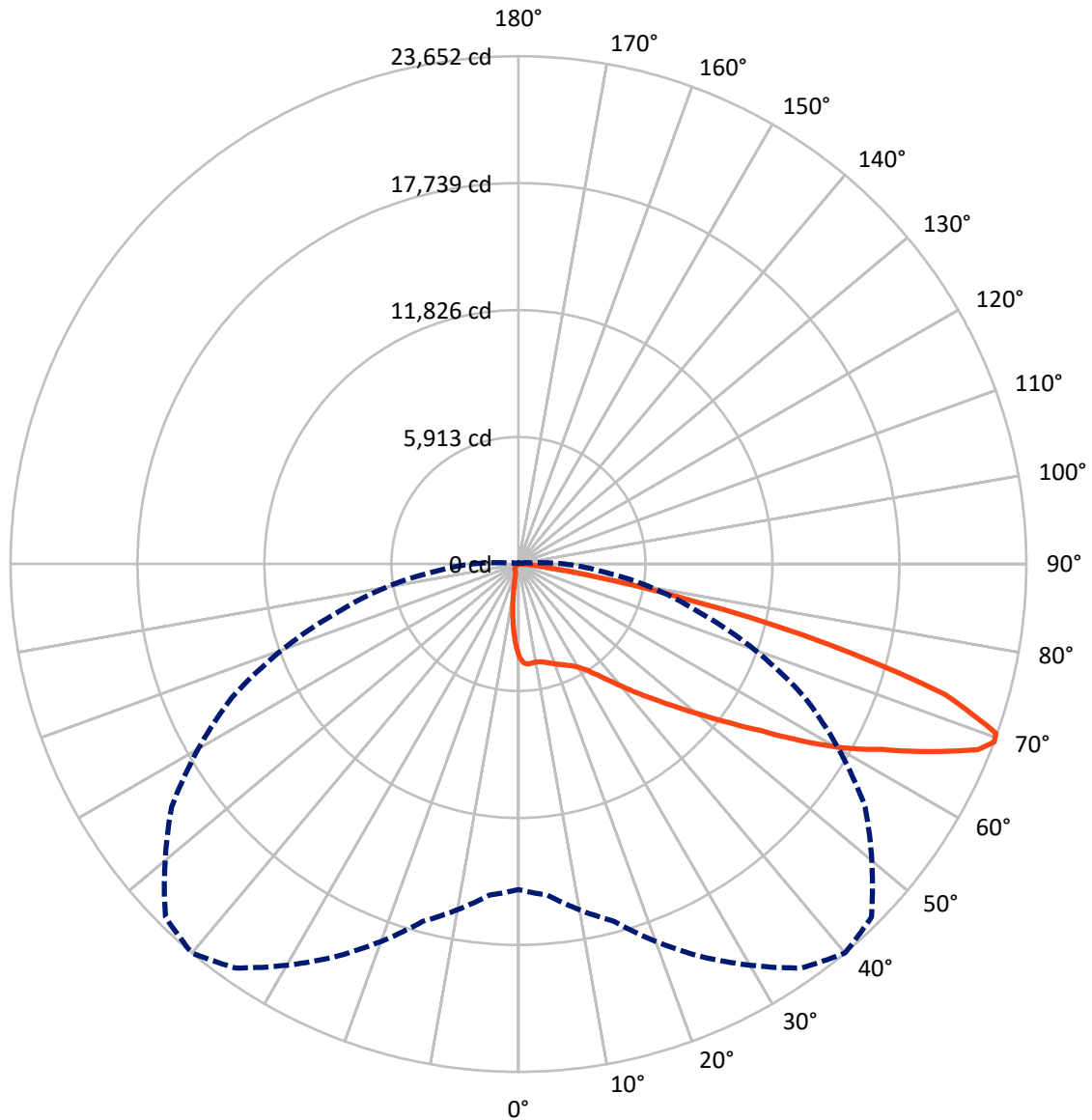
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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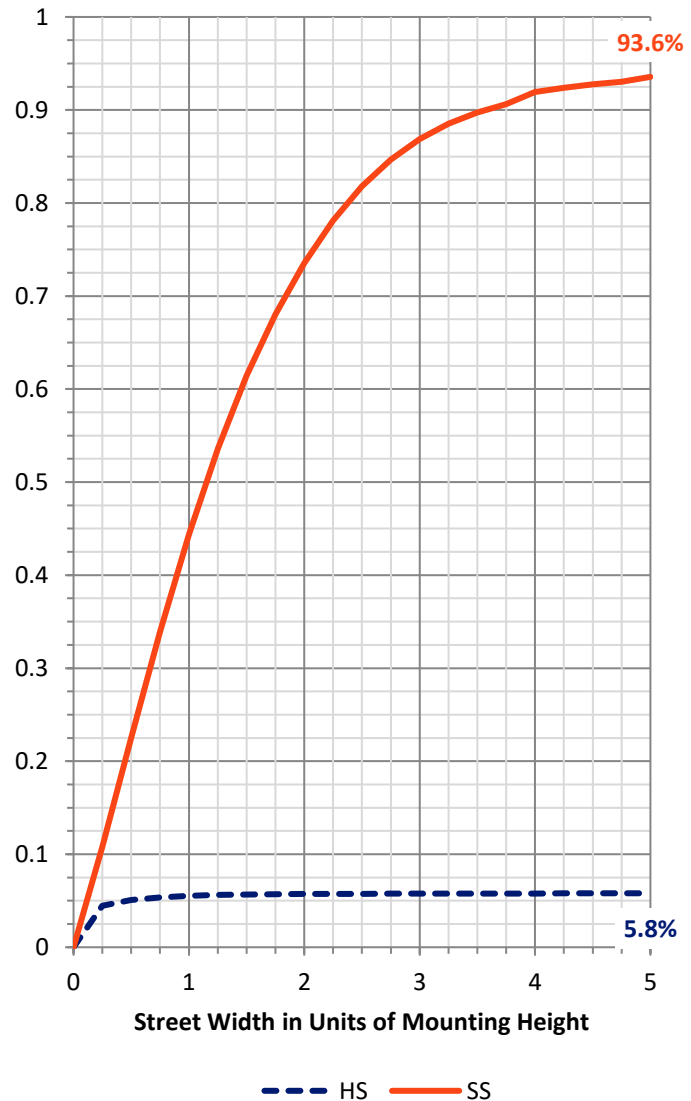
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1684.0	0.0	1684.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	27099.4	0.0	27099.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	28783.4	0.0	28783.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.7	1.2
10°-20°	857.5	3.0
20°-30°	1444.3	5.0
30°-40°	2364.3	8.2
40°-50°	4093.7	14.2
50°-60°	6448.0	22.4
60°-70°	8420.8	29.3
70°-80°	4337.1	15.1
80°-90°	469.1	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°	28783.4	100.0
0°-180°	28783.4	100.0

Coefficient of Utilization



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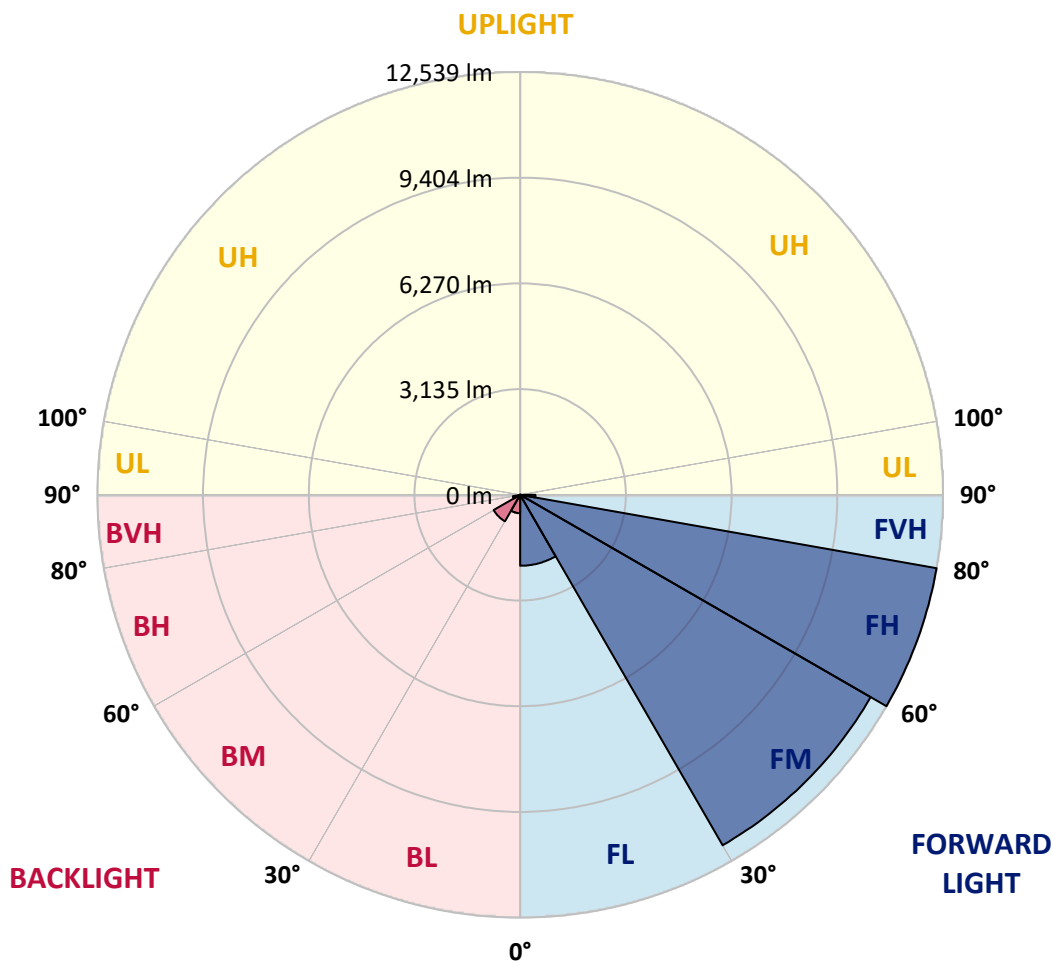
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2104.9	7.3			
FM	(30°-60°)	12000.9	41.7			
FH	(60°-80°)	12539.3	43.6			G5
FVH	(80°-90°)	454.4	1.6			G3/500
BL	(0°-30°)	545.5	1.9	B2/1000		
BM	(30°-60°)	905.1	3.1	B1/1000		
BH	(60°-80°)	218.7	0.8	B1/500		G1/500
BVH	(80°-90°)	14.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4300.4	4300.4	4300.4	4300.4	4300.4	4300.4	4300.4	4300.4	4300.4	4300.4	4300.4
2.5°	4721.9	4696.2	4680.7	4660.2	4634.5	4612.2	4603.6	4540.3	4480.3	4398.1	4303.8
5°	4809.2	4800.7	4773.3	4745.9	4715.0	4680.7	4661.9	4586.5	4500.9	4380.9	4216.4
7.5°	4817.8	4807.5	4773.3	4735.6	4692.7	4651.6	4619.1	4543.7	4464.9	4343.2	4142.8
10°	4804.1	4792.1	4766.4	4725.3	4672.2	4632.8	4600.2	4528.3	4461.4	4351.8	4129.1
12.5°	4788.7	4776.7	4764.7	4744.1	4697.9	4670.5	4643.1	4574.5	4514.6	4422.0	4178.7
15°	4804.1	4797.3	4811.0	4802.4	4776.7	4752.7	4725.3	4663.6	4608.8	4531.7	4269.6
17.5°	4869.2	4869.2	4912.0	4917.2	4893.2	4858.9	4819.5	4757.8	4711.6	4646.5	4377.5
20°	5021.7	5016.6	5071.4	5081.7	5023.4	4970.3	4912.0	4836.7	4800.7	4759.6	4483.7
22.5°	5283.8	5259.8	5292.4	5282.1	5167.3	5085.1	5013.1	4920.6	4901.8	4882.9	4601.9
25°	5624.8	5611.1	5633.3	5532.3	5330.1	5218.7	5133.1	5028.5	5028.5	5047.4	4735.6
27.5°	6119.9	6068.5	5993.1	5815.0	5511.7	5369.5	5277.0	5165.6	5194.7	5265.0	4912.0
30°	6627.1	6570.5	6397.5	6123.4	5732.7	5583.7	5475.7	5359.2	5427.7	5556.2	5148.5
32.5°	7127.3	7064.0	6819.0	6472.9	6049.7	5900.6	5796.1	5667.6	5782.4	5998.3	5494.6
35°	7612.2	7555.7	7273.0	6865.2	6471.2	6347.8	6251.8	6140.5	6287.8	6589.4	5982.9
37.5°	8157.0	8095.4	7751.0	7309.0	6983.4	6894.3	6824.1	6712.7	6969.7	7411.8	6663.0
40°	8826.9	8722.4	8258.1	7817.8	7576.2	7533.4	7485.4	7470.0	7869.2	8480.9	7569.4
42.5°	9594.5	9423.2	8789.3	8354.1	8227.3	8258.1	8246.1	8314.7	8994.8	9810.4	8672.7
45°	10362.1	10141.0	9380.3	8926.3	8943.5	9051.4	9118.2	9392.3	10404.9	11335.2	9860.1
47.5°	11013.1	10795.5	9947.4	9544.8	9750.4	9962.9	10144.5	10663.6	11854.4	12836.1	10783.5
50°	11569.9	11364.3	10548.8	10225.0	10687.6	11030.3	11324.9	12094.2	13413.5	13978.9	11431.2
52.5°	12025.7	11888.6	11172.5	11004.6	11758.4	12260.4	12692.2	13613.9	14794.4	14907.5	11934.9
55°	12469.4	12371.8	11842.4	11931.5	13016.0	13699.6	14246.1	15226.1	15983.4	15681.9	12418.0
57.5°	12980.0	12890.9	12606.5	13106.8	14669.3	15529.4	16125.6	16655.0	17030.2	16473.4	12873.8
60°	13500.8	13449.4	13456.3	14412.3	16567.7	17393.5	17722.4	17859.5	18058.2	17218.7	12899.5
62.5°	13997.7	14095.4	14427.7	15865.2	18385.5	19019.4	19185.6	19320.9	19087.9	17336.9	11917.7
65°	14838.9	14998.3	15791.5	17809.8	20384.9	21063.4	21234.7	20770.4	19250.7	15808.7	9693.9
67.5°	15250.1	15541.4	16956.6	19622.5	22324.4	23078.2	23014.8	20864.6	17275.3	12054.8	6221.0
69°	15164.5	15474.6	17225.6	20177.6	22968.6	23652.2	23249.5	19711.6	14717.3	8732.7	3819.0
70°	14825.2	15138.8	17086.8	20157.0	23050.8	23592.2	22814.4	18287.8	12443.7	6385.5	2388.3
72.5°	12380.3	12651.0	15169.6	18219.3	21234.7	20794.4	19086.2	12669.9	6063.4	1739.0	538.0
75°	7620.8	7771.5	10884.6	13725.3	16038.2	14907.5	12716.1	6303.2	1807.5	491.7	298.1
77.5°	4026.3	4094.8	5958.9	8090.2	10166.7	8412.3	6517.4	2458.6	832.7	308.4	215.9
80°	2379.8	2431.2	3209.0	3699.0	4399.8	3675.0	2605.9	1509.4	596.2	193.6	191.9
82.5°	1362.1	1394.6	2326.7	2056.0	1733.9	1480.3	1297.0	1430.6	358.1	130.2	198.7
85°	500.3	507.1	1309.0	1564.2	1031.4	613.4	644.2	1185.6	95.9	82.2	155.9
87.5°	233.0	227.9	673.3	957.7	603.1	388.9	502.0	260.4	37.7	53.1	42.8
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°	4300.4	4300.4	4300.4	4300.4	4300.4	4300.4	4300.4	4300.4	4300.4	4300.4	4300.4
2.5°	4249.0	4185.6	4070.8	3952.6	3832.7	3740.1	3649.3	3577.4	3553.4	3508.8	3512.3
5°	4118.8	4002.3	3762.4	3519.1	3265.6	3056.5	2859.5	2700.2	2623.1	2544.3	2544.3
7.5°	4005.7	3836.1	3460.9	3065.1	2655.6	2311.2	2001.1	1768.1	1639.6	1536.8	1535.1
10°	3962.9	3733.3	3209.0	2641.9	2071.4	1601.9	1233.6	997.1	875.5	796.7	793.3
12.5°	3981.7	3697.3	3015.4	2251.3	1535.1	1029.7	714.4	562.0	510.6	486.6	486.6
15°	4036.5	3687.0	2821.8	1869.2	1084.5	644.2	474.6	433.5	430.0	430.0	430.0
17.5°	4103.4	3690.5	2623.1	1497.4	738.4	460.9	409.5	404.3	407.8	407.8	407.8
20°	4171.9	3692.2	2408.9	1153.1	520.8	400.9	385.5	383.8	387.2	387.2	388.9
22.5°	4255.8	3700.7	2194.7	861.8	430.0	378.6	366.6	366.6	368.4	368.4	366.6
25°	4351.8	3717.9	1972.0	639.1	392.3	363.2	352.9	351.2	352.9	351.2	349.5
27.5°	4471.7	3741.9	1723.6	500.3	375.2	347.8	339.2	339.2	337.5	335.8	334.1
30°	4622.5	3769.3	1444.3	424.9	358.1	334.1	325.5	323.8	322.1	318.7	318.7
32.5°	4852.1	3829.2	1168.5	385.5	339.2	315.2	308.4	308.4	305.0	301.5	299.8
35°	5205.0	3947.5	921.8	361.5	318.7	294.7	286.1	286.1	282.7	281.0	279.3
37.5°	5693.3	4127.4	716.2	339.2	298.1	272.4	263.8	262.1	258.7	255.3	253.6
40°	6342.7	4350.1	563.7	318.7	277.6	250.1	243.3	239.9	233.0	227.9	227.9
42.5°	7158.2	4603.6	457.5	296.4	253.6	229.6	224.4	219.3	207.3	202.2	200.5
45°	8011.4	4831.5	387.2	270.7	229.6	209.0	205.6	197.0	181.6	176.5	176.5
47.5°	8626.5	4884.6	340.9	246.7	207.3	186.8	185.0	169.6	155.9	152.5	150.8
50°	9010.3	4780.1	303.3	222.7	186.8	166.2	161.1	142.2	133.6	130.2	128.5
52.5°	9269.0	4593.4	272.4	202.2	167.9	147.3	135.4	121.6	114.8	111.4	111.4
55°	9476.3	4329.5	241.6	183.3	152.5	131.9	114.8	104.5	97.7	94.2	94.2
57.5°	9534.5	3971.4	210.7	167.9	137.1	116.5	97.7	90.8	82.2	80.5	80.5
60°	9111.4	3325.5	186.8	149.1	123.4	101.1	85.7	77.1	68.5	66.8	65.1
62.5°	7996.0	2573.4	164.5	131.9	107.9	87.4	73.7	63.4	56.5	56.5	56.5
65°	6099.4	1725.3	143.9	114.8	94.2	73.7	63.4	51.4	48.0	48.0	49.7
67.5°	3651.1	938.9	123.4	97.7	80.5	61.7	53.1	44.5	42.8	44.5	44.5
69°	2139.9	551.7	111.4	87.4	70.2	54.8	46.3	39.4	42.8	44.5	44.5
70°	1321.0	371.8	102.8	78.8	63.4	49.7	42.8	37.7	41.1	42.8	42.8
72.5°	368.4	191.9	82.2	61.7	51.4	41.1	34.3	34.3	39.4	41.1	41.1
75°	239.9	142.2	63.4	46.3	39.4	32.6	29.1	32.6	37.7	39.4	39.4
77.5°	198.7	116.5	51.4	37.7	32.6	30.8	27.4	29.1	34.3	36.0	36.0
80°	181.6	82.2	41.1	34.3	29.1	27.4	25.7	24.0	30.8	32.6	32.6
82.5°	173.0	65.1	36.0	30.8	27.4	24.0	22.3	24.0	27.4	29.1	30.8
85°	107.9	42.8	32.6	29.1	24.0	22.3	22.3	22.3	25.7	27.4	27.4
87.5°	39.4	34.3	29.1	24.0	20.6	20.6	20.6	20.6	22.3	25.7	25.7
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)