

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: P300883

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300883
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
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43693.1 lumens
Efficiency: N/A
Efficacy: 98.2 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

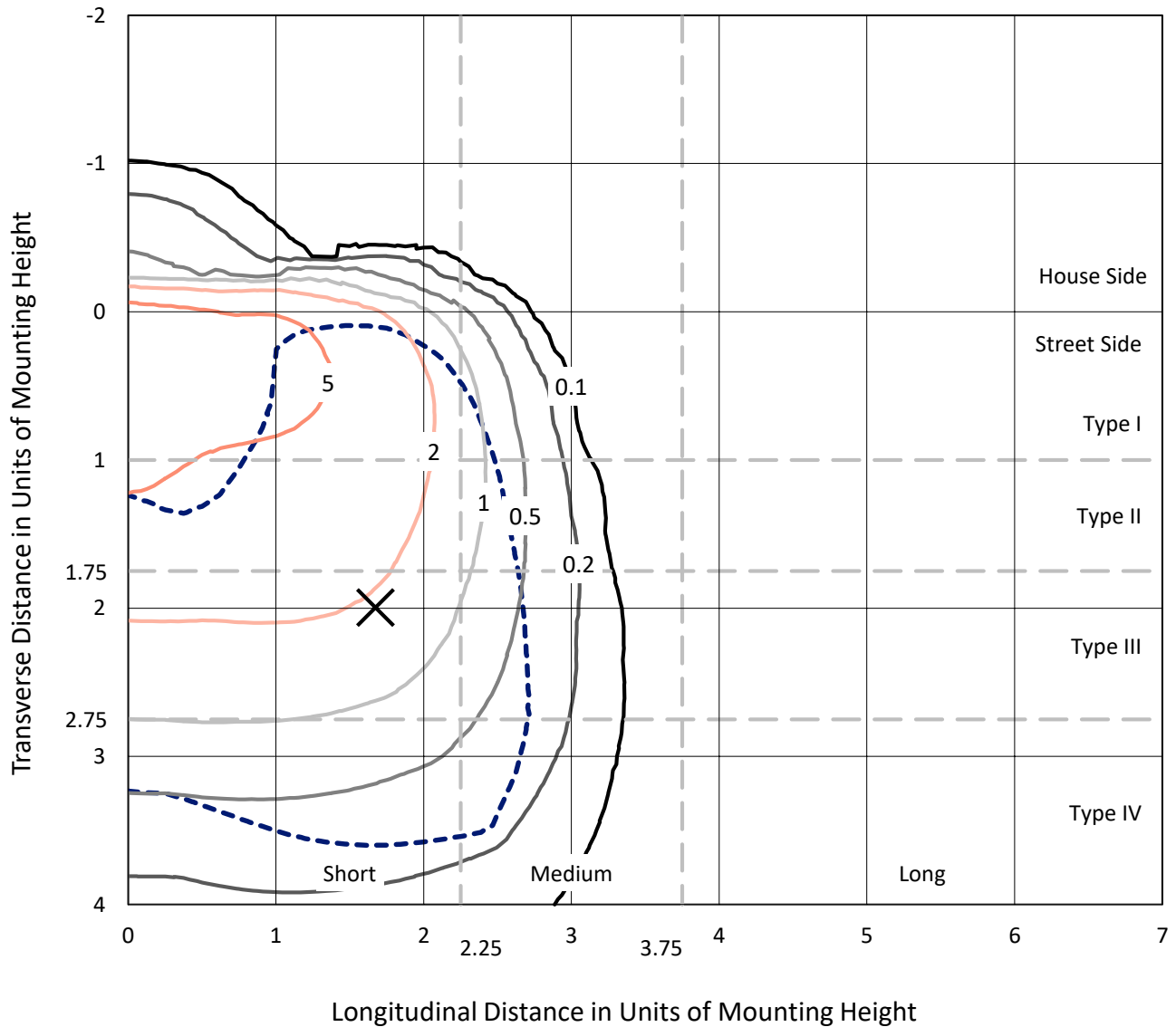
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

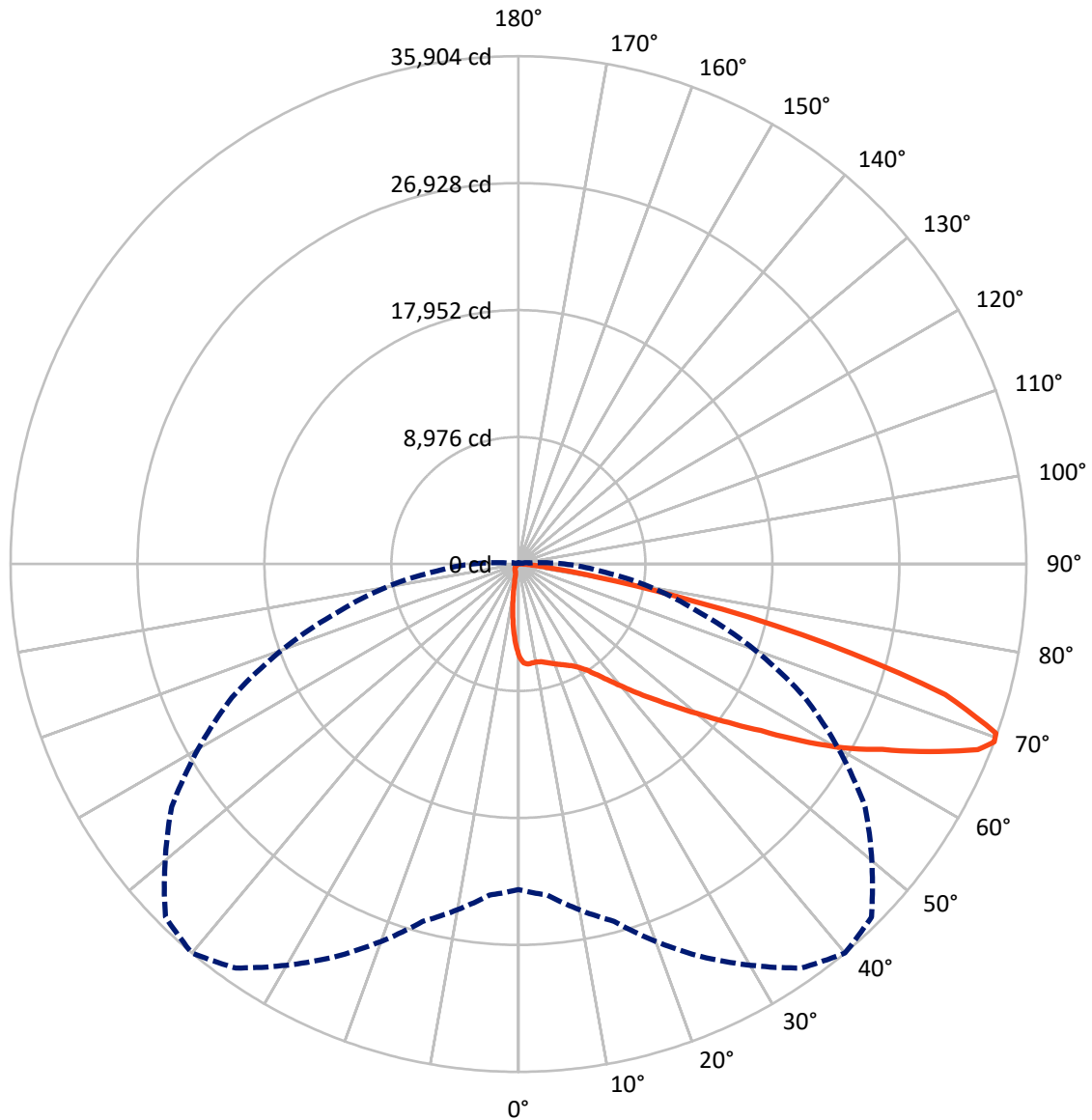
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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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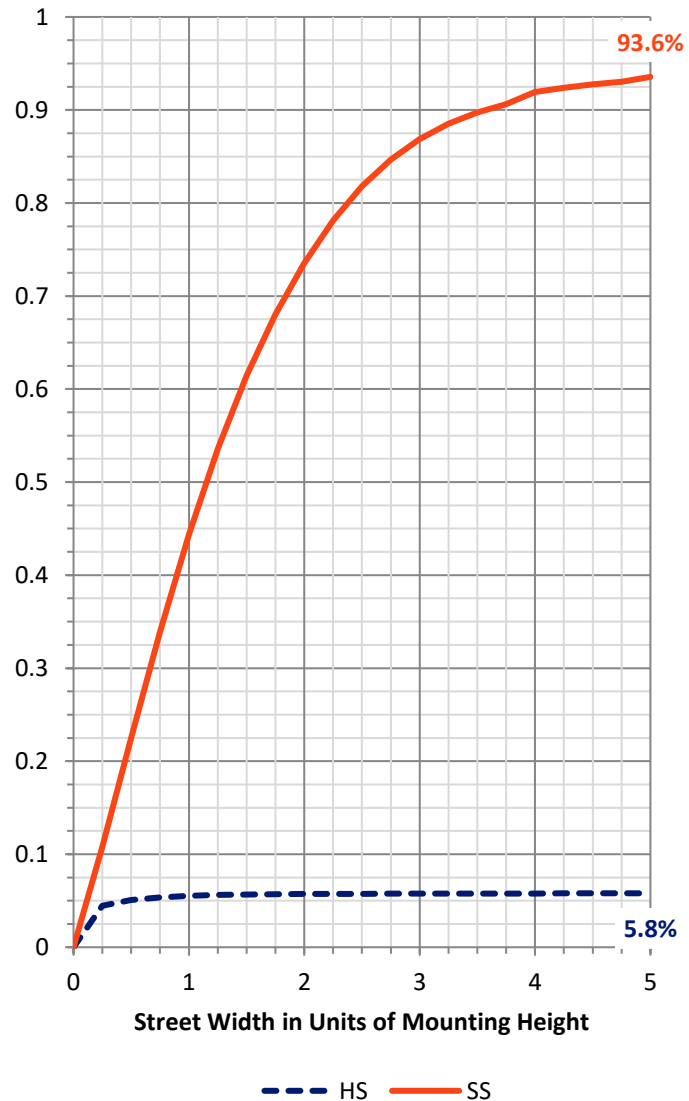
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2556.3	0.0	2556.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	41136.8	0.0	41136.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	43693.1	0.0	43693.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.3	1.2
10°-20°	1301.6	3.0
20°-30°	2192.4	5.0
30°-40°	3589.0	8.2
40°-50°	6214.2	14.2
50°-60°	9788.0	22.4
60°-70°	12782.8	29.3
70°-80°	6583.7	15.1
80°-90°	712.2	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°	43693.1	100.0
0°-180°	43693.1	100.0



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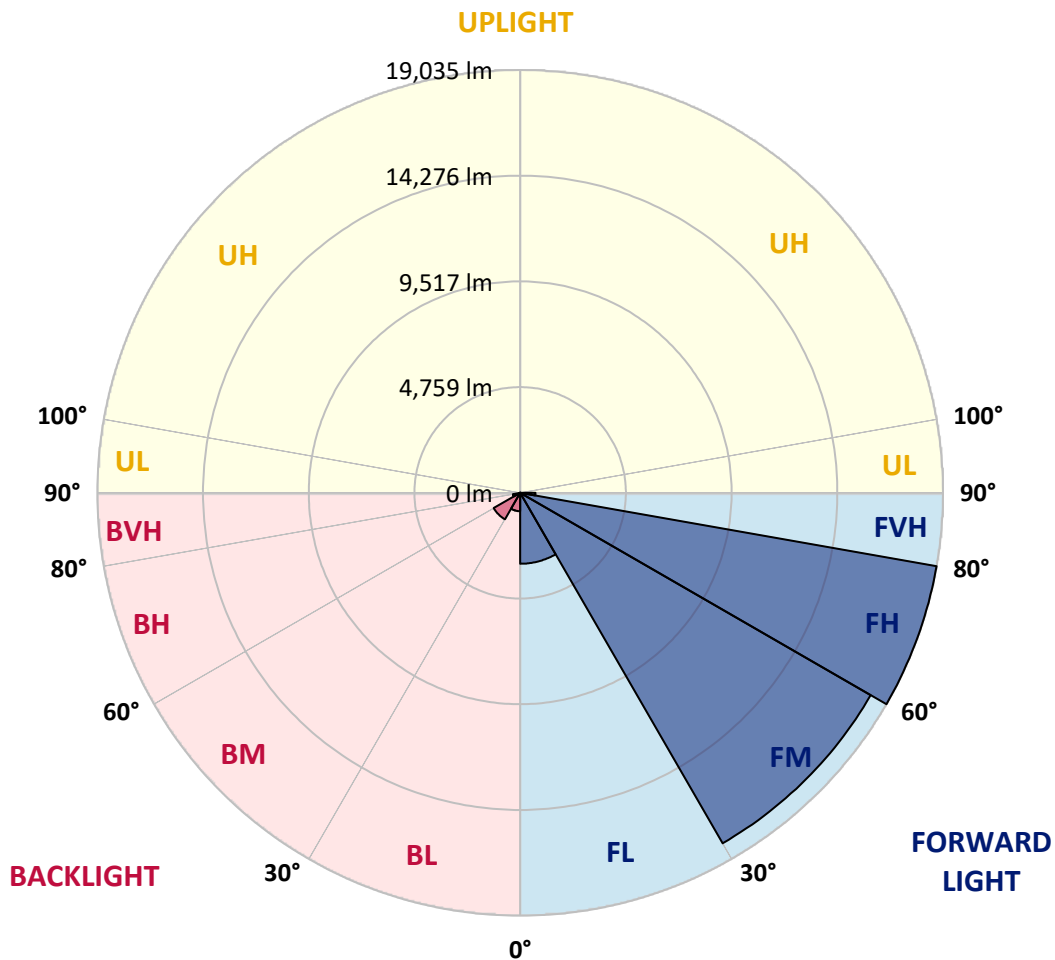
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3195.2	7.3			
FM	(30°-60°)	18217.3	41.7			
FH	(60°-80°)	19034.5	43.6			G5
FVH	(80°-90°)	689.8	1.6			G4/750
BL	(0°-30°)	828.1	1.9	B2/1000		
BM	(30°-60°)	1373.9	3.1	B2/2500		
BH	(60°-80°)	331.9	0.8	B1/500		G1/500
BVH	(80°-90°)	22.3	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°	6528.0	6528.0	6528.0	6528.0	6528.0	6528.0	6528.0	6528.0	6528.0	6528.0	6528.0
2.5°	7167.8	7128.8	7105.4	7074.1	7035.1	7001.3	6988.3	6892.1	6801.1	6676.2	6533.2
5°	7300.4	7287.4	7245.8	7204.2	7157.4	7105.4	7076.7	6962.3	6832.3	6650.2	6400.5
7.5°	7313.4	7297.8	7245.8	7188.6	7123.6	7061.1	7011.7	6897.3	6777.7	6593.0	6288.7
10°	7292.6	7274.4	7235.4	7173.0	7092.3	7032.5	6983.1	6873.9	6772.4	6606.0	6267.9
12.5°	7269.2	7251.0	7232.8	7201.6	7131.4	7089.7	7048.1	6944.1	6853.1	6712.6	6343.3
15°	7292.6	7282.2	7303.0	7290.0	7251.0	7214.6	7173.0	7079.3	6996.1	6879.1	6481.2
17.5°	7391.4	7391.4	7456.5	7464.3	7427.8	7375.8	7316.0	7222.4	7152.2	7053.3	6645.0
20°	7622.9	7615.1	7698.3	7713.9	7625.5	7544.9	7456.5	7342.0	7287.4	7225.0	6806.3
22.5°	8020.8	7984.4	8033.8	8018.2	7844.0	7719.1	7609.9	7469.5	7440.9	7412.2	6985.7
25°	8538.4	8517.6	8551.4	8397.9	8091.0	7922.0	7792.0	7633.3	7633.3	7661.9	7188.6
27.5°	9290.0	9212.0	9097.6	8827.1	8366.7	8150.9	8010.4	7841.4	7885.6	7992.2	7456.5
30°	10059.8	9974.0	9711.3	9295.2	8702.2	8476.0	8312.1	8135.3	8239.3	8434.4	7815.4
32.5°	10819.3	10723.0	10351.1	9825.8	9183.4	8957.1	8798.5	8603.4	8777.7	9105.4	8340.7
35°	11555.3	11469.5	11040.3	10421.4	9823.2	9635.9	9490.3	9321.2	9544.9	10002.6	9081.9
37.5°	12382.3	12288.7	11766.0	11095.0	10600.8	10465.6	10358.9	10189.9	10580.0	11251.0	10114.5
40°	13399.3	13240.6	12535.8	11867.4	11500.7	11435.7	11362.8	11339.4	11945.4	12873.9	11490.3
42.5°	14564.4	14304.3	13342.0	12681.4	12489.0	12535.8	12517.6	12621.6	13654.1	14892.1	13165.2
45°	15729.6	15394.1	14239.3	13550.1	13576.1	13740.0	13841.4	14257.5	15794.6	17206.8	14967.5
47.5°	16717.9	16387.6	15100.2	14489.0	14801.1	15123.6	15399.3	16187.3	17994.8	19485.1	16369.4
50°	17563.1	17251.0	16013.0	15521.5	16223.7	16743.9	17191.2	18359.0	20361.6	21219.8	17352.5
52.5°	18254.9	18046.9	16959.7	16704.9	17849.2	18611.2	19266.6	20665.9	22457.8	22629.4	18117.1
55°	18928.5	18780.3	17976.6	18111.9	19758.2	20795.9	21625.5	23113.2	24262.7	23805.0	18850.5
57.5°	19703.6	19568.3	19136.6	19896.0	22267.9	23573.5	24478.6	25282.3	25851.8	25006.6	19542.3
60°	20494.2	20416.2	20426.6	21877.8	25149.6	26403.2	26902.5	27110.6	27412.3	26137.9	19581.3
62.5°	21248.4	21396.7	21901.2	24083.3	27909.0	28871.3	29123.6	29329.1	28975.4	26317.4	18091.1
65°	22525.4	22767.3	23971.5	27035.2	30944.2	31974.1	32234.2	31529.3	29222.4	23997.5	14715.3
67.5°	23149.6	23591.7	25740.0	29786.8	33888.3	35032.6	34936.4	31672.4	26223.7	18299.1	9443.5
69°	23019.6	23490.3	26148.3	30629.5	34866.2	35903.9	35292.7	29922.1	22340.8	13256.2	5797.2
70°	22504.6	22980.6	25937.6	30598.3	34991.0	35812.8	34632.1	27760.8	18889.5	9693.1	3625.5
72.5°	18793.3	19204.2	23027.4	27656.8	32234.2	31565.8	28972.8	19232.8	9204.2	2639.8	816.6
75°	11568.3	11797.2	16522.8	20834.9	24346.0	22629.4	19303.0	9568.3	2743.8	746.4	452.5
77.5°	6111.8	6215.9	9045.5	12280.9	15433.1	12769.9	9893.4	3732.1	1264.0	468.1	327.7
80°	3612.5	3690.5	4871.3	5615.1	6678.8	5578.7	3955.8	2291.3	905.1	293.9	291.3
82.5°	2067.6	2117.0	3531.9	3120.9	2632.0	2247.1	1968.8	2171.7	543.6	197.7	301.7
85°	759.4	769.8	1987.0	2374.5	1565.7	931.1	977.9	1799.7	145.6	124.8	236.7
87.5°	353.7	345.9	1022.1	1453.8	915.5	590.4	762.0	395.3	57.2	80.6	65.0
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°	6528.0	6528.0	6528.0	6528.0	6528.0	6528.0	6528.0	6528.0	6528.0	6528.0	6528.0
2.5°	6450.0	6353.7	6179.5	6000.0	5818.0	5677.5	5539.7	5430.4	5394.0	5326.4	5331.6
5°	6252.3	6075.4	5711.3	5342.0	4957.1	4639.8	4340.7	4098.8	3981.8	3862.2	3862.2
7.5°	6080.6	5823.2	5253.6	4652.8	4031.2	3508.5	3037.7	2684.0	2489.0	2332.9	2330.3
10°	6015.6	5667.1	4871.3	4010.4	3144.4	2431.7	1872.6	1513.7	1329.0	1209.4	1204.2
12.5°	6044.2	5612.5	4577.4	3417.4	2330.3	1563.1	1084.5	853.1	775.0	738.6	738.6
15°	6127.5	5596.9	4283.5	2837.5	1646.3	977.9	720.4	658.0	652.8	652.8	652.8
17.5°	6228.9	5602.1	3981.8	2273.1	1120.9	699.6	621.6	613.8	619.0	619.0	619.0
20°	6332.9	5604.7	3656.7	1750.3	790.6	608.6	585.2	582.6	587.8	587.8	590.4
22.5°	6460.4	5617.7	3331.6	1308.2	652.8	574.8	556.6	556.6	559.2	559.2	556.6
25°	6606.0	5643.7	2993.5	970.1	595.6	551.4	535.8	533.2	535.8	533.2	530.6
27.5°	6788.1	5680.1	2616.4	759.4	569.6	528.0	515.0	515.0	512.4	509.8	507.2
30°	7016.9	5721.7	2192.5	645.0	543.6	507.2	494.1	491.5	488.9	483.7	483.7
32.5°	7365.4	5812.8	1773.7	585.2	515.0	478.5	468.1	468.1	462.9	457.7	455.1
35°	7901.2	5992.2	1399.2	548.8	483.7	447.3	434.3	434.3	429.1	426.5	423.9
37.5°	8642.4	6265.3	1087.1	515.0	452.5	413.5	400.5	397.9	392.7	387.5	384.9
40°	9628.1	6603.4	855.7	483.7	421.3	379.7	369.3	364.1	353.7	345.9	345.9
42.5°	10866.1	6988.3	694.4	449.9	384.9	348.5	340.7	332.9	314.7	306.9	304.3
45°	12161.3	7334.2	587.8	410.9	348.5	317.3	312.1	299.1	275.7	267.9	267.9
47.5°	13095.0	7414.8	517.6	374.5	314.7	283.5	280.9	257.5	236.7	231.5	228.9
50°	13677.5	7256.2	460.3	338.1	283.5	252.3	244.5	215.9	202.9	197.7	195.1
52.5°	14070.3	6972.7	413.5	306.9	254.9	223.7	205.5	184.7	174.3	169.1	169.1
55°	14385.0	6572.2	366.7	278.3	231.5	200.3	174.3	158.6	148.2	143.0	143.0
57.5°	14473.4	6028.6	319.9	254.9	208.1	176.9	148.2	137.8	124.8	122.2	122.2
60°	13831.0	5048.1	283.5	226.3	187.3	153.4	130.0	117.0	104.0	101.4	98.8
62.5°	12137.9	3906.4	249.7	200.3	163.8	132.6	111.8	96.2	85.8	85.8	85.8
65°	9258.8	2619.0	218.5	174.3	143.0	111.8	96.2	78.0	72.8	72.8	75.4
67.5°	5542.3	1425.2	187.3	148.2	122.2	93.6	80.6	67.6	65.0	67.6	67.6
69°	3248.4	837.5	169.1	132.6	106.6	83.2	70.2	59.8	65.0	67.6	67.6
70°	2005.2	564.4	156.0	119.6	96.2	75.4	65.0	57.2	62.4	65.0	65.0
72.5°	559.2	291.3	124.8	93.6	78.0	62.4	52.0	52.0	59.8	62.4	62.4
75°	364.1	215.9	96.2	70.2	59.8	49.4	44.2	49.4	57.2	59.8	59.8
77.5°	301.7	176.9	78.0	57.2	49.4	46.8	41.6	44.2	52.0	54.6	54.6
80°	275.7	124.8	62.4	52.0	44.2	41.6	39.0	36.4	46.8	49.4	49.4
82.5°	262.7	98.8	54.6	46.8	41.6	36.4	33.8	36.4	41.6	44.2	46.8
85°	163.8	65.0	49.4	44.2	36.4	33.8	33.8	33.8	39.0	41.6	41.6
87.5°	59.8	52.0	44.2	36.4	31.2	31.2	31.2	31.2	33.8	39.0	39.0
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)