

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: P456692

Luminaire Tested: **GALN-SA8A-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25276 lumens
Efficiency: N/A
Efficacy: 103.6 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

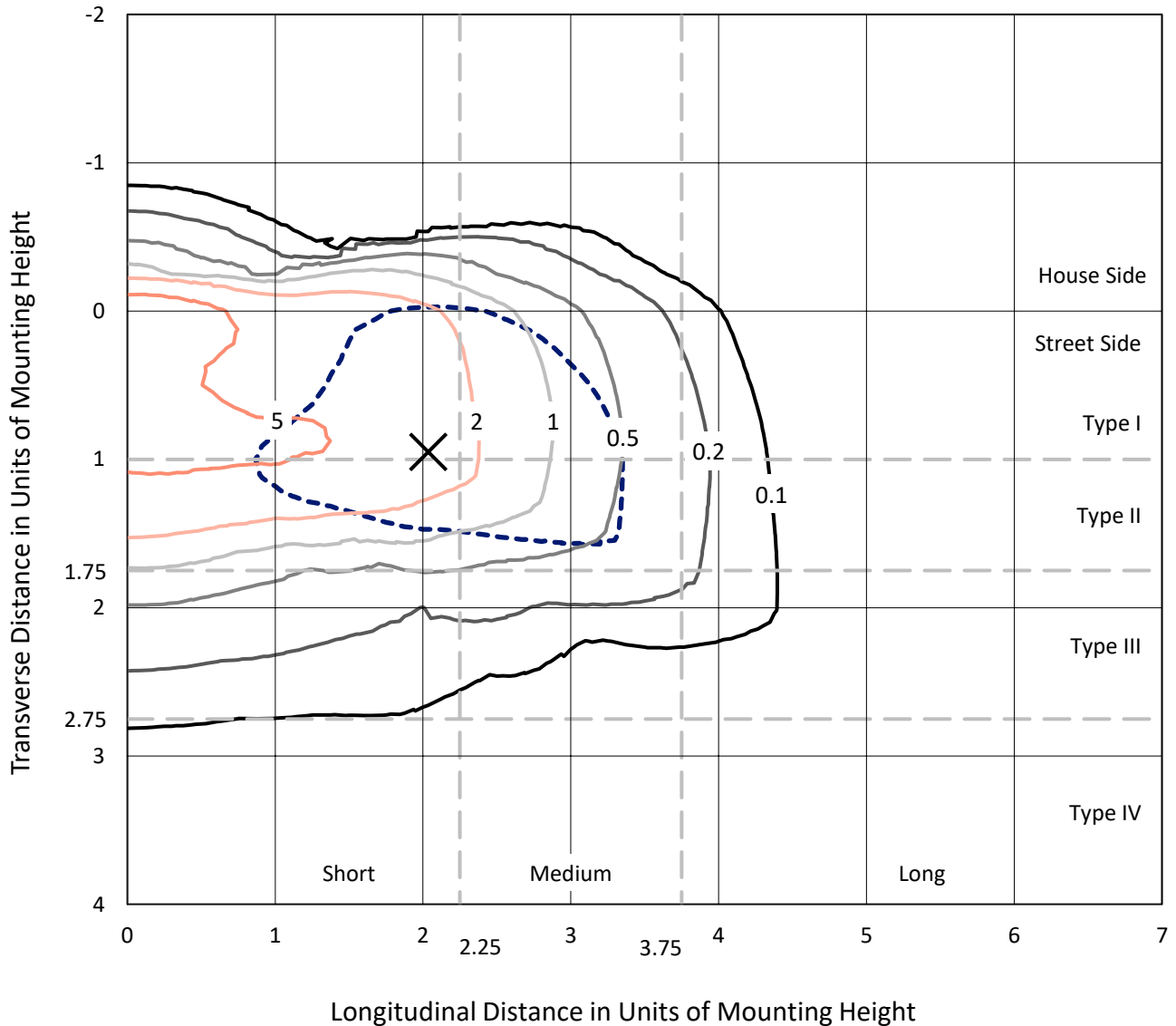
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

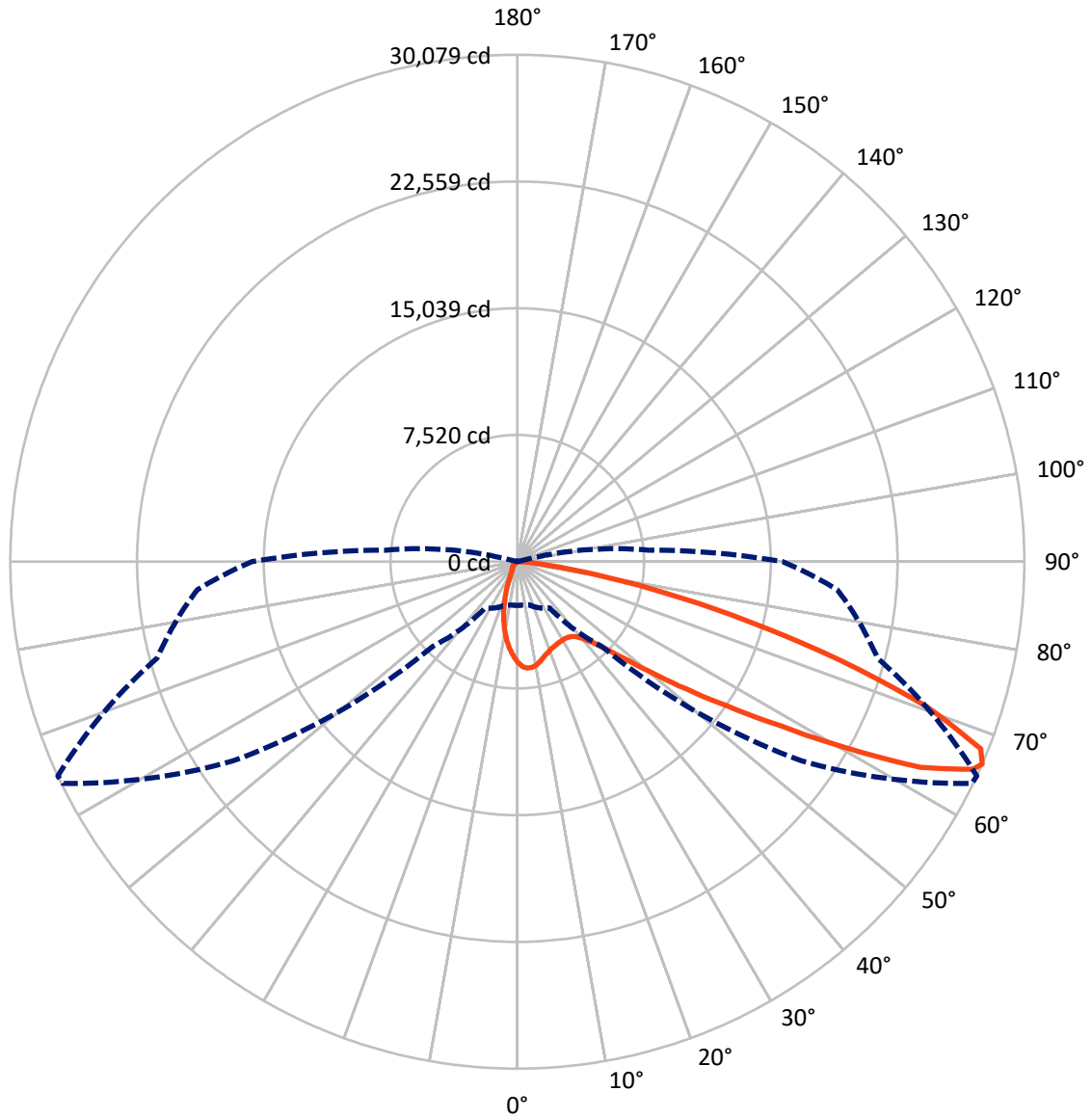
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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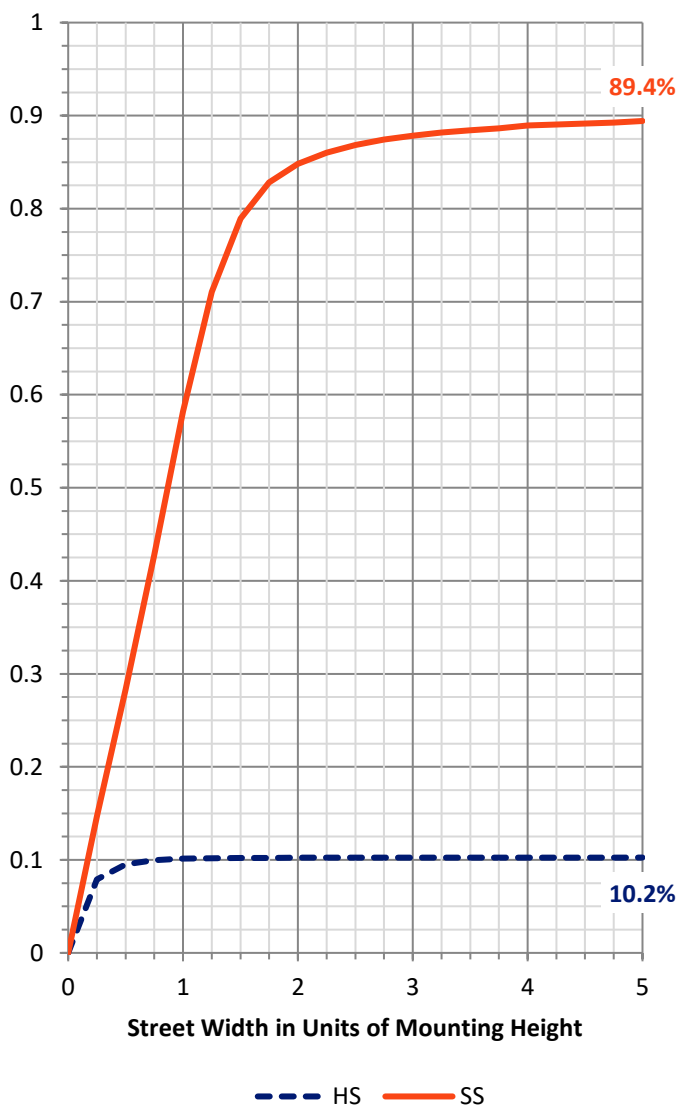
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2613.9	0.0	2613.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22662.1	0.0	22662.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	25276.0	0.0	25276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.2	1.9
10°-20°	1068.1	4.2
20°-30°	1530.0	6.1
30°-40°	2234.8	8.8
40°-50°	3747.3	14.8
50°-60°	6253.6	24.7
60°-70°	6638.0	26.3
70°-80°	3006.3	11.9
80°-90°	307.6	1.2
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°	25276.0	100.0
0°-180°	25276.0	100.0

Coefficient of Utilization



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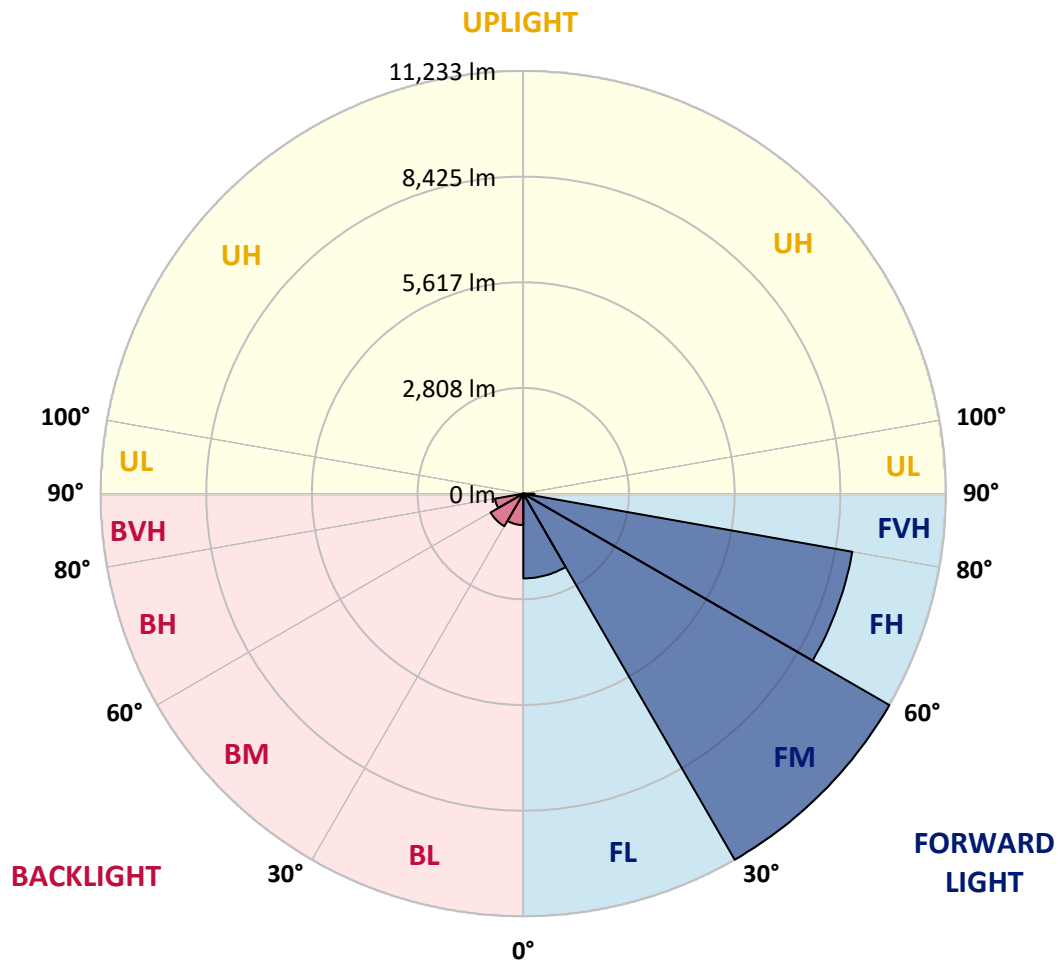
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2252.2	8.9			
FM (30°-60°)	11233.2	44.4			
FH (60°-80°)	8878.9	35.1			G4/12000
FVH (80°-90°)	297.8	1.2			G3/500
BL (0°-30°)	836.2	3.3	B2/1000		
BM (30°-60°)	1002.4	4.0	B2/2500		
BH (60°-80°)	765.5	3.0	B2/1000		G2/1000
BVH (80°-90°)	9.8	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°	64°	65°	75°	85°
0°	5993.9	5993.9	5993.9	5993.9	5993.9	5993.9	5993.9	5993.9	5993.9	5993.9	5993.9
2.5°	6316.5	6323.4	6331.9	6343.8	6352.4	6326.8	6290.9	6249.9	6241.4	6154.3	6048.5
5°	5978.5	5988.8	6063.9	6104.8	6197.0	6280.7	6333.6	6340.4	6337.0	6255.1	6086.1
7.5°	5497.1	5526.1	5599.5	5671.2	5843.6	6002.4	6190.2	6321.6	6330.2	6308.0	6098.0
10°	5106.1	5124.9	5162.5	5304.2	5447.6	5690.0	5952.9	6200.4	6220.9	6309.7	6087.8
12.5°	4800.6	4827.9	4874.0	4983.2	5155.7	5384.4	5683.2	6016.1	6058.7	6277.3	6058.7
15°	4587.2	4600.8	4646.9	4754.5	4921.8	5133.5	5435.6	5823.2	5860.7	6234.6	6053.6
17.5°	4486.4	4501.8	4534.2	4619.6	4757.9	4954.2	5249.5	5667.8	5715.6	6207.3	6072.4
20°	4513.8	4527.4	4529.1	4573.5	4667.4	4833.0	5113.0	5522.7	5584.2	6190.2	6103.1
22.5°	4669.1	4670.8	4650.3	4629.8	4662.3	4781.8	5029.3	5430.5	5493.7	6186.8	6139.0
25°	4901.3	4906.4	4872.3	4800.6	4735.7	4797.1	5010.5	5370.8	5427.1	6178.2	6161.2
27.5°	5222.2	5220.5	5210.3	5090.8	4906.4	4865.4	5025.9	5338.3	5386.1	6154.3	6169.7
30°	5671.2	5657.6	5635.4	5500.5	5218.8	5031.0	5090.8	5317.8	5362.2	6120.2	6147.5
32.5°	6113.4	6164.6	6161.2	6033.1	5681.5	5326.4	5225.6	5345.1	5377.6	6098.0	6115.1
35°	6628.9	6627.2	6758.7	6710.9	6299.5	5703.7	5456.1	5435.6	5461.2	6113.4	6099.7
37.5°	7106.9	7151.3	7356.2	7405.7	7030.1	6236.3	5782.2	5630.2	5638.8	6217.5	6137.3
40°	7702.7	7788.1	8093.7	8259.3	7928.1	7026.7	6263.6	5987.0	5988.8	6473.6	6279.0
42.5°	8471.0	8605.8	8890.9	9167.5	8990.0	7962.2	6985.7	6552.1	6548.7	6924.3	6603.3
45°	9404.8	9498.7	9823.1	10261.8	10149.1	9268.2	8037.4	7427.9	7383.5	7663.5	7178.6
47.5°	10210.6	10338.6	10668.1	11168.3	11680.5	10862.7	9293.8	8631.4	8602.4	8839.7	8165.4
50°	10562.3	10674.9	11021.5	11723.1	12964.2	12955.7	11164.9	10388.1	10338.6	10466.7	9691.6
52.5°	10176.4	10282.3	10632.3	11506.3	13568.6	15506.2	13875.9	12592.1	12532.3	12368.4	11514.9
55°	8855.1	8942.2	9459.4	10463.2	13336.4	17206.6	17611.2	15315.0	15082.8	14446.1	13578.8
57.5°	7050.6	7006.2	7327.2	8493.2	11974.1	17776.8	21445.5	18707.2	18292.3	16242.0	15325.3
60°	4885.9	5022.5	5152.2	5920.5	9003.6	16788.3	23830.4	22971.7	22425.4	18008.9	16998.3
62.5°	3591.9	3682.4	3767.7	4122.8	5661.0	13404.7	24252.0	27352.3	26867.4	19885.1	18594.5
65°	2840.7	2847.6	2881.7	3231.7	3730.2	8716.8	22225.6	29822.5	29697.9	21691.3	19241.5
66°	2588.1	2589.8	2642.7	3018.3	3347.8	7098.4	20602.1	30010.3	30078.6	22124.9	19052.0
67.5°	2262.0	2255.2	2332.0	2712.7	3049.0	5118.1	17696.5	29248.9	29653.5	22457.8	18370.9
70°	1753.3	1744.7	1838.6	2275.7	2808.3	3414.3	11762.4	25114.2	25766.3	21776.7	16254.0
72.5°	1167.7	1174.5	1335.0	1795.9	2680.3	3006.3	7076.2	19104.9	20026.8	17983.3	12786.7
75°	681.2	693.1	875.8	1335.0	2326.9	2866.3	4005.0	13623.2	14212.2	12418.0	7965.7
77.5°	356.8	361.9	490.0	880.9	1784.0	2661.5	2668.3	8703.1	8979.7	6034.8	3153.1
80°	189.5	184.4	262.9	530.9	1227.5	2337.1	2164.7	4607.7	4790.3	1792.5	797.2
82.5°	71.7	78.5	140.0	348.3	725.5	1678.1	1864.2	2036.7	1973.5	394.4	334.6
85°	13.7	17.1	59.8	206.6	365.3	701.6	1374.3	998.7	925.3	148.5	192.9
87.5°	1.7	3.4	17.1	49.5	52.9	237.3	406.3	276.6	239.0	54.6	80.2
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°	5993.9	5993.9	5993.9	5993.9	5993.9	5993.9	5993.9	5993.9	5993.9	5993.9	5993.9
2.5°	5997.3	5951.2	5797.5	5645.6	5490.3	5350.3	5254.7	5099.3	5060.1	5003.7	4971.3
5°	5985.3	5877.8	5582.4	5259.8	4959.3	4635.0	4387.4	4148.4	4020.4	3955.5	3931.6
7.5°	5951.2	5780.5	5319.5	4814.2	4332.8	3848.0	3426.3	3105.3	2898.8	2757.1	2661.5
10°	5882.9	5647.3	5014.0	4319.1	3591.9	2951.7	2417.4	2011.0	1696.9	1597.9	1601.3
12.5°	5812.9	5498.8	4672.5	3769.4	2868.0	2060.6	1493.8	1172.8	1022.6	973.1	962.8
15°	5748.0	5357.1	4337.9	3236.8	2135.7	1335.0	962.8	850.2	809.2	800.7	799.0
17.5°	5713.9	5225.6	3981.1	2627.3	1490.4	906.5	771.6	740.9	729.0	720.4	717.0
20°	5684.9	5111.3	3639.7	2057.1	1019.2	742.6	691.4	662.4	641.9	633.4	628.2
22.5°	5664.4	4993.5	3286.3	1592.8	780.2	659.0	612.9	575.3	546.3	536.1	529.2
25°	5633.7	4863.7	2929.5	1164.3	657.3	585.6	532.6	488.3	450.7	431.9	428.5
27.5°	5589.3	4716.9	2538.6	862.1	587.3	520.7	455.8	401.2	363.6	343.1	344.8
30°	5517.6	4563.3	2147.6	684.6	530.9	454.1	384.1	331.2	295.3	280.0	278.3
32.5°	5432.2	4377.2	1789.1	587.3	479.7	394.4	320.9	274.9	247.5	235.6	233.9
35°	5352.0	4189.4	1423.8	527.5	426.8	339.7	269.7	230.5	210.0	199.7	201.4
37.5°	5307.6	4022.1	1109.7	479.7	384.1	291.9	232.2	198.0	179.3	170.7	169.0
40°	5336.6	3885.5	882.6	437.0	336.3	251.0	199.7	170.7	151.9	140.0	140.0
42.5°	5473.2	3825.8	711.9	396.1	291.9	216.8	174.1	146.8	126.3	114.4	116.1
45°	5889.7	3888.9	595.8	358.5	251.0	187.8	150.2	121.2	102.4	93.9	92.2
47.5°	6581.1	4126.2	515.6	319.2	215.1	160.5	126.3	100.7	81.9	75.1	73.4
50°	7789.8	4616.2	455.8	280.0	182.7	136.6	104.1	80.2	64.9	58.0	58.0
52.5°	9452.6	5684.9	413.1	235.6	153.6	116.1	85.4	64.9	51.2	46.1	44.4
55°	11190.5	6811.6	390.9	198.0	128.0	95.6	68.3	51.2	39.3	34.1	32.4
57.5°	12861.8	7695.9	365.3	160.5	102.4	73.4	52.9	39.3	27.3	23.9	22.2
60°	14464.8	8411.2	310.7	128.0	80.2	52.9	39.3	27.3	18.8	15.4	15.4
62.5°	15898.9	8827.8	244.1	102.4	61.5	37.6	25.6	20.5	13.7	10.2	10.2
65°	16066.2	8286.6	184.4	78.5	44.4	23.9	15.4	15.4	10.2	6.8	6.8
66°	15729.9	7827.4	162.2	71.7	39.3	20.5	13.7	12.0	8.5	5.1	5.1
67.5°	14978.7	7043.8	140.0	61.5	32.4	15.4	10.2	10.2	6.8	3.4	3.4
70°	12942.1	5753.2	111.0	46.1	23.9	12.0	6.8	6.8	5.1	3.4	3.4
72.5°	9864.0	4295.2	90.5	34.1	17.1	8.5	5.1	5.1	5.1	3.4	3.4
75°	5949.5	2313.2	70.0	25.6	15.4	6.8	3.4	5.1	6.8	5.1	3.4
77.5°	2192.0	787.0	54.6	20.5	12.0	6.8	3.4	3.4	6.8	5.1	5.1
80°	537.8	204.9	39.3	17.1	12.0	6.8	3.4	3.4	6.8	6.8	6.8
82.5°	249.2	87.1	27.3	15.4	12.0	6.8	3.4	3.4	5.1	6.8	6.8
85°	143.4	41.0	22.2	17.1	12.0	6.8	3.4	3.4	5.1	6.8	6.8
87.5°	58.0	20.5	20.5	17.1	13.7	8.5	3.4	3.4	3.4	5.1	5.1
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)