

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: P456230

Luminaire Tested: **GALN-SA7C-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33876 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

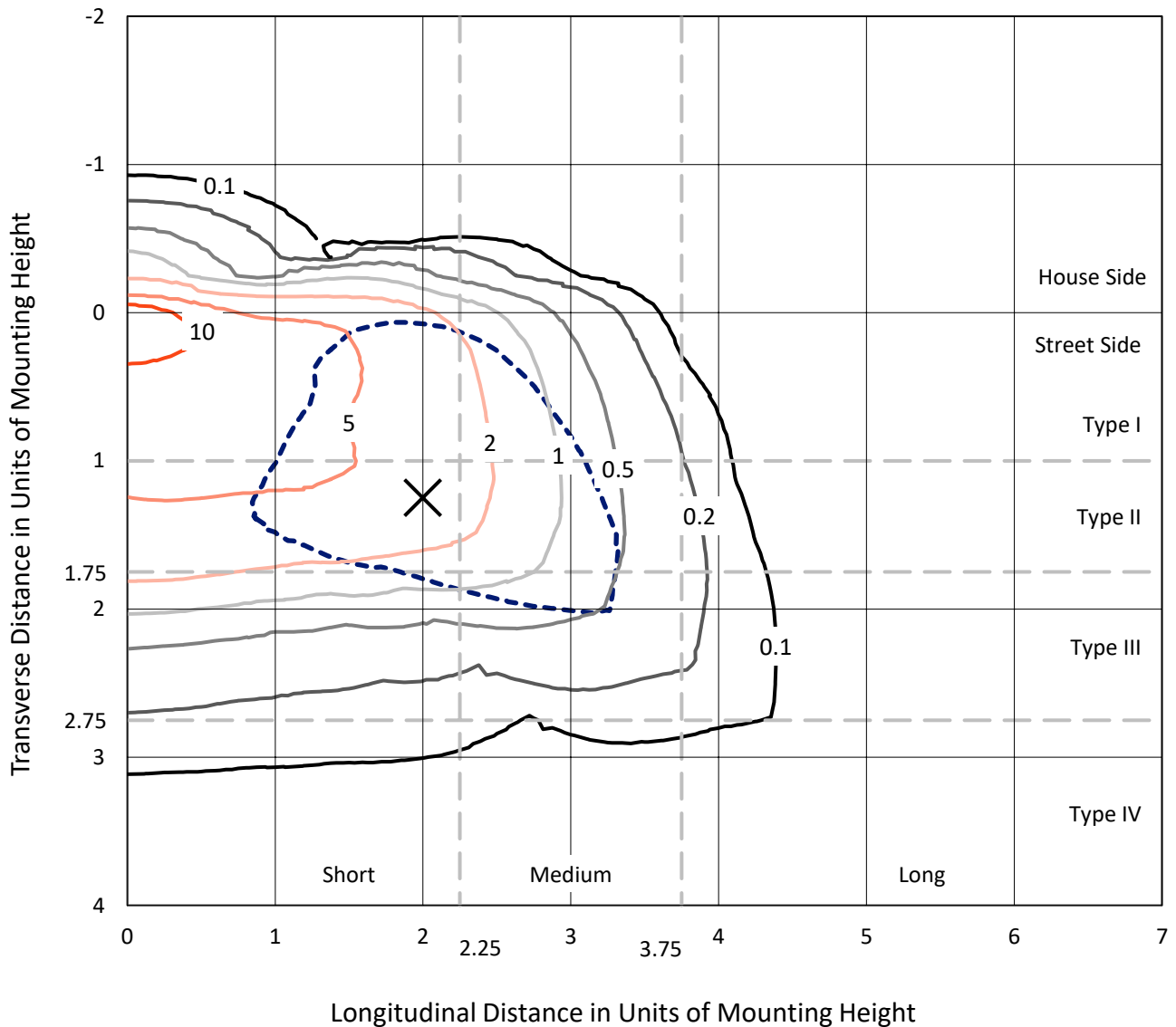
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

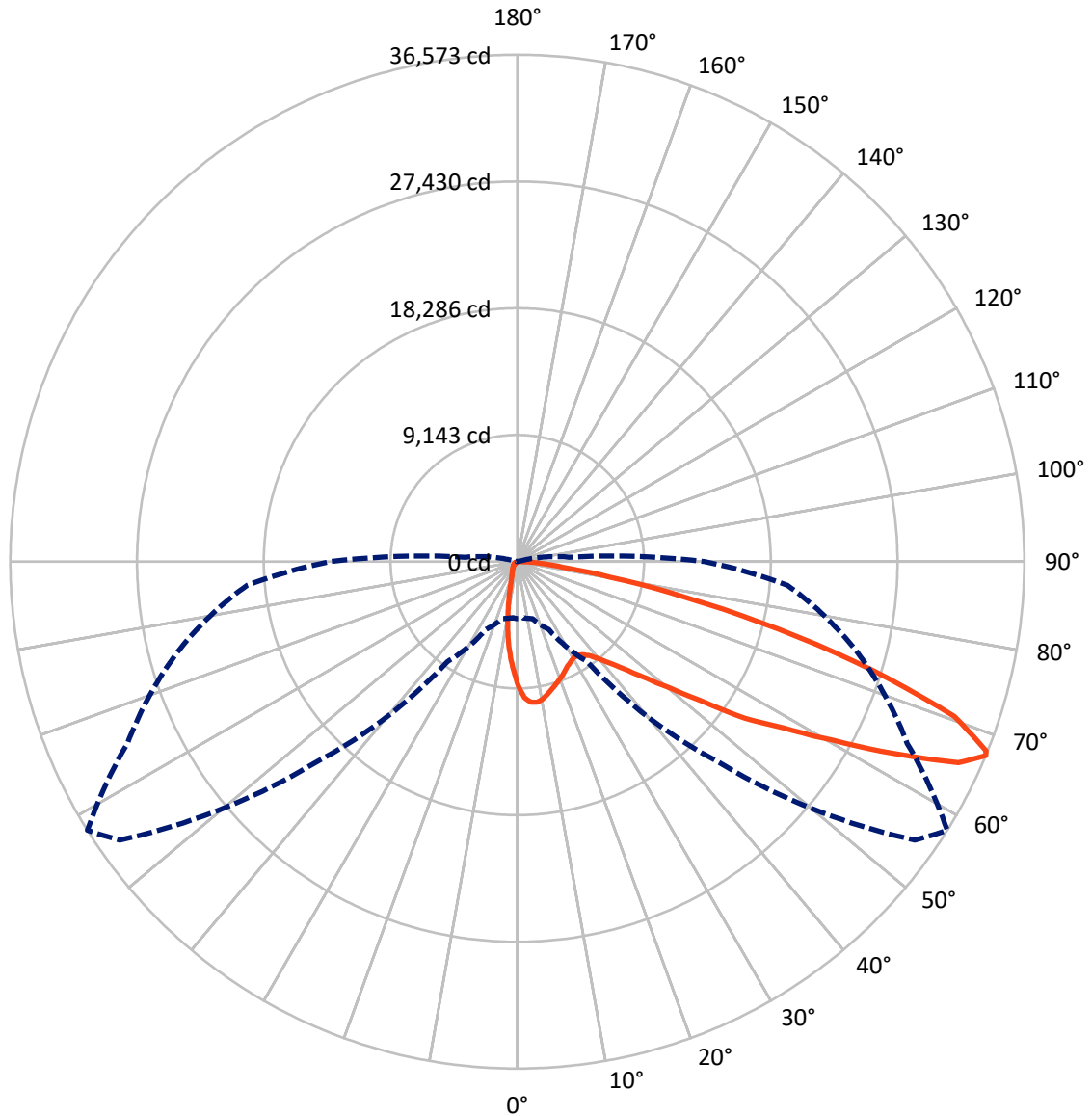
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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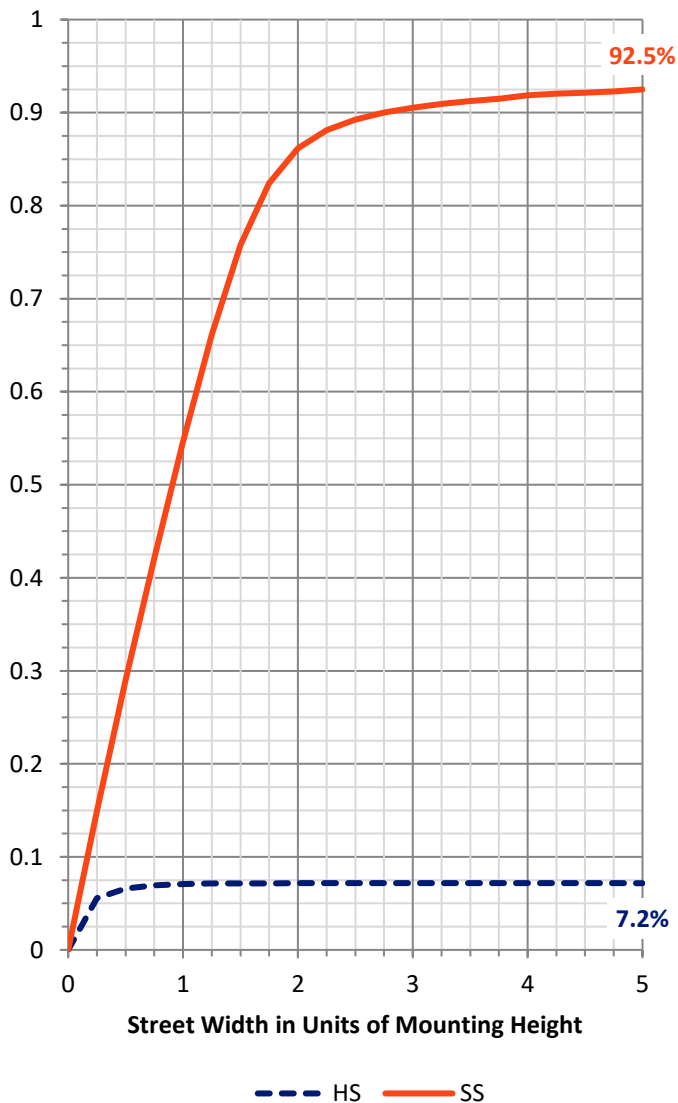
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2444.7	0.0	2444.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	31431.3	0.0	31431.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	33876.0	0.0	33876.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.7	2.2
10°-20°	1573.9	4.6
20°-30°	2132.7	6.3
30°-40°	2957.9	8.7
40°-50°	4717.6	13.9
50°-60°	8154.7	24.1
60°-70°	9315.2	27.5
70°-80°	3883.6	11.5
80°-90°	411.8	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°	33876.0	100.0
0°-180°	33876.0	100.0



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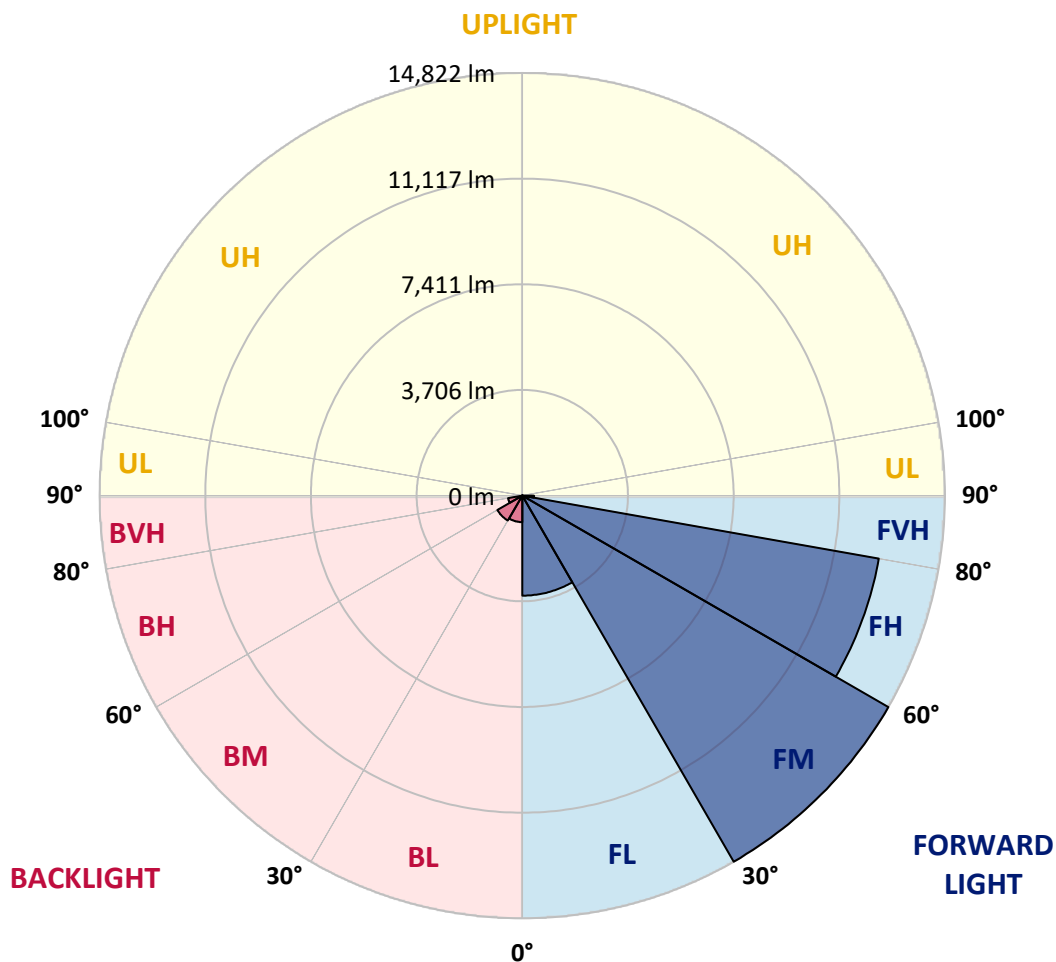
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3507.0	10.4			
FM (30°-60°)	14822.2	43.8			
FH (60°-80°)	12693.4	37.5			G5
FVH (80°-90°)	408.8	1.2			G3/500
BL (0°-30°)	928.3	2.7	B2/1000		
BM (30°-60°)	1008.0	3.0	B2/2500		
BH (60°-80°)	505.4	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.0	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8980.2	8980.2	8980.2	8980.2	8980.2	8980.2	8980.2	8980.2	8980.2	8980.2	8980.2
2.5°	10422.2	10438.1	10379.2	10331.7	10209.4	10078.1	9903.8	9811.0	9652.5	9378.6	9075.3
5°	10666.7	10687.1	10678.0	10666.7	10619.2	10492.4	10270.5	10189.0	9955.9	9509.9	8962.1
7.5°	10123.4	10198.1	10207.2	10295.4	10379.2	10390.5	10306.8	10245.6	10030.6	9507.7	8760.6
10°	9403.5	9453.3	9525.8	9627.6	9829.1	9996.6	10078.1	10069.1	9944.6	9437.5	8525.2
12.5°	8676.9	8704.0	8815.0	8989.3	9236.0	9521.2	9738.6	9781.6	9783.8	9353.7	8328.3
15°	8052.1	8040.8	8126.8	8328.3	8674.6	9032.3	9421.6	9489.6	9598.2	9272.2	8144.9
17.5°	7517.8	7576.7	7590.3	7812.1	8131.3	8595.4	9091.1	9211.1	9428.4	9202.1	7993.2
20°	7187.3	7219.0	7248.5	7373.0	7660.5	8149.4	8781.0	8946.3	9270.0	9138.7	7823.5
22.5°	7090.0	7110.4	7085.5	7124.0	7327.7	7762.3	8443.7	8663.3	9118.3	9079.8	7685.4
25°	7164.7	7185.1	7126.2	7080.9	7151.1	7447.7	8117.7	8384.9	8996.1	9068.5	7581.2
27.5°	7345.8	7384.3	7302.8	7221.3	7180.6	7277.9	7861.9	8172.1	8912.3	9122.8	7533.7
30°	7628.8	7651.4	7590.3	7490.7	7397.9	7300.5	7728.4	8024.9	8889.7	9249.6	7529.2
32.5°	7936.6	7984.2	7950.2	7884.6	7764.6	7533.7	7766.9	8029.4	8944.0	9433.0	7585.8
35°	8316.9	8371.3	8403.0	8389.4	8235.4	7948.0	8011.3	8233.2	9088.9	9770.3	7739.7
37.5°	8690.5	8738.0	8916.8	8978.0	8842.1	8570.5	8486.7	8633.9	9408.1	10211.7	8018.1
40°	9118.3	9181.7	9433.0	9666.1	9600.5	9315.2	9161.3	9283.6	9897.0	10877.2	8545.6
42.5°	9528.0	9641.2	10023.8	10435.8	10496.9	10177.7	10075.9	10116.6	10621.4	11834.8	9281.3
45°	10109.8	10216.2	10709.7	11268.8	11556.3	11307.3	11203.2	11196.4	11615.2	13181.7	10474.3
47.5°	10949.7	11044.7	11626.5	12178.9	12690.5	12724.4	12527.5	12595.4	12864.8	14757.3	11936.6
50°	11979.7	12203.8	12586.3	13161.3	13845.0	14397.3	14458.4	14367.9	14598.8	16581.8	13693.3
52.5°	13476.0	13562.0	13912.9	14386.0	15187.4	16124.5	16851.2	16726.7	16654.3	18320.4	15468.1
55°	14592.0	14707.5	15253.0	15902.7	17077.6	18313.6	19889.1	19932.1	19017.6	19991.0	17204.3
57.5°	14254.7	14431.3	15257.5	16563.7	19146.6	21405.8	22578.4	22607.9	21204.4	21614.1	19164.7
60°	12523.0	12606.7	13790.6	15533.7	19323.2	24756.2	26392.8	26155.1	23429.6	23429.6	20896.5
62.5°	8880.6	9011.9	9971.7	12536.5	17451.1	25919.7	30961.0	30469.8	26494.7	25165.9	21928.8
65°	5675.2	5548.4	6184.5	7914.0	13000.6	24201.5	34938.4	34967.8	29378.7	25860.9	21365.1
67°	4110.9	4061.1	4244.5	5410.3	8815.0	20344.1	35022.2	36572.8	31035.7	25421.7	19563.2
67.5°	3760.1	3798.5	3932.1	4880.6	8009.1	18512.8	34641.9	36477.7	31409.3	25156.8	18911.2
70°	2850.0	2784.4	2929.3	3452.2	4801.4	11678.6	29799.7	33455.7	30945.2	22528.6	15110.4
72.5°	2096.2	2089.4	2290.9	2822.9	3696.7	6220.7	22370.2	26825.2	25281.3	17154.5	9514.5
75°	1414.8	1478.2	1799.7	2358.8	3350.3	4034.0	15250.7	19461.3	17550.7	9740.8	3889.1
77.5°	805.9	810.4	1159.0	1894.7	3008.5	3246.2	9036.8	12398.4	9290.3	3239.4	1154.5
80°	348.6	382.6	575.0	1376.3	2494.6	2874.9	5181.7	6813.8	3757.8	685.9	373.5
82.5°	129.0	151.7	253.5	846.6	1820.0	2367.9	3130.7	3253.0	1274.5	242.2	233.2
85°	0.0	4.5	92.8	396.2	948.5	1057.2	2091.7	1928.7	563.7	115.5	151.7
87.5°	0.0	0.0	0.0	40.7	124.5	393.9	649.7	724.4	135.8	40.7	36.2
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°	8980.2	8980.2	8980.2	8980.2	8980.2	8980.2	8980.2	8980.2	8980.2	8980.2	8980.2
2.5°	8912.3	8765.2	8396.2	8027.2	7753.3	7524.6	7180.6	6992.7	6893.1	6745.9	6755.0
5°	8688.2	8389.4	7739.7	7067.4	6524.1	5994.4	5360.5	5104.7	4889.7	4767.4	4685.9
7.5°	8355.4	7914.0	6951.9	6055.5	5220.2	4294.3	3599.3	3135.3	2822.9	2707.4	2596.5
10°	7991.0	7404.7	6152.8	4910.0	3751.0	2795.7	2207.1	1781.6	1629.9	1489.5	1503.1
12.5°	7653.7	6940.6	5419.4	3875.5	2628.2	1777.0	1385.4	1211.1	1161.3	1145.4	1145.4
15°	7377.5	6496.9	4631.6	2913.4	1801.9	1276.7	1109.2	1061.7	1043.6	1039.1	1039.1
17.5°	7083.2	6075.9	3920.8	2152.8	1310.7	1068.5	1011.9	980.2	973.4	968.9	968.9
20°	6820.6	5652.5	3246.2	1602.7	1059.4	962.1	925.9	905.5	898.7	894.2	896.4
22.5°	6571.6	5276.8	2612.3	1211.1	932.7	876.1	839.8	819.5	805.9	794.6	796.8
25°	6349.8	4914.6	2100.7	991.5	839.8	790.0	753.8	724.4	695.0	681.4	679.1
27.5°	6193.6	4597.6	1636.7	848.9	756.1	701.8	656.5	620.3	581.8	561.4	556.9
30°	6064.5	4276.2	1294.9	749.3	672.3	620.3	563.7	511.6	470.9	450.5	441.4
32.5°	5980.8	3970.6	1020.9	667.8	602.2	538.8	475.4	423.3	378.0	357.7	353.1
35°	5967.2	3714.8	835.3	599.9	538.8	470.9	405.2	348.6	310.1	289.8	285.2
37.5°	6064.5	3517.8	699.5	545.6	486.7	412.0	339.6	287.5	253.5	237.7	235.4
40°	6324.9	3393.3	606.7	500.3	439.2	357.7	289.8	244.5	210.5	194.7	194.7
42.5°	6820.6	3397.9	545.6	457.3	391.6	305.6	246.7	203.7	174.3	160.7	156.2
45°	7594.8	3551.8	493.5	414.3	346.4	264.9	210.5	167.5	138.1	126.8	126.8
47.5°	8631.6	3857.4	448.2	371.3	305.6	226.4	178.8	135.8	110.9	99.6	99.6
50°	9987.6	4348.6	409.7	335.0	271.6	194.7	144.9	110.9	86.0	77.0	74.7
52.5°	11404.7	4955.3	364.5	303.3	233.2	165.3	117.7	86.0	65.6	58.9	56.6
55°	12968.9	5548.4	321.4	271.6	190.2	138.1	92.8	67.9	47.5	40.7	40.7
57.5°	14546.7	6130.2	269.4	226.4	149.4	101.9	72.4	49.8	31.7	24.9	24.9
60°	15882.3	6318.1	228.6	183.4	113.2	72.4	52.1	31.7	18.1	11.3	11.3
62.5°	16065.7	5684.2	192.4	140.4	81.5	49.8	27.2	18.1	6.8	4.5	4.5
65°	15069.6	4618.0	160.7	106.4	54.3	24.9	11.3	6.8	2.3	0.0	0.0
67°	13503.1	3744.2	131.3	79.2	38.5	15.8	6.8	2.3	0.0	0.0	0.0
67.5°	13102.5	3569.9	126.8	74.7	34.0	13.6	4.5	2.3	0.0	0.0	0.0
70°	10281.9	2673.5	90.5	45.3	20.4	9.1	0.0	0.0	0.0	0.0	0.0
72.5°	6390.5	1512.2	65.6	27.2	13.6	4.5	0.0	0.0	0.0	0.0	0.0
75°	2415.4	529.7	45.3	18.1	9.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	751.6	201.5	27.2	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	253.5	77.0	18.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	156.2	31.7	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	97.3	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)