

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: P455361

Luminaire Tested: **GALN-SA6C-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41321 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

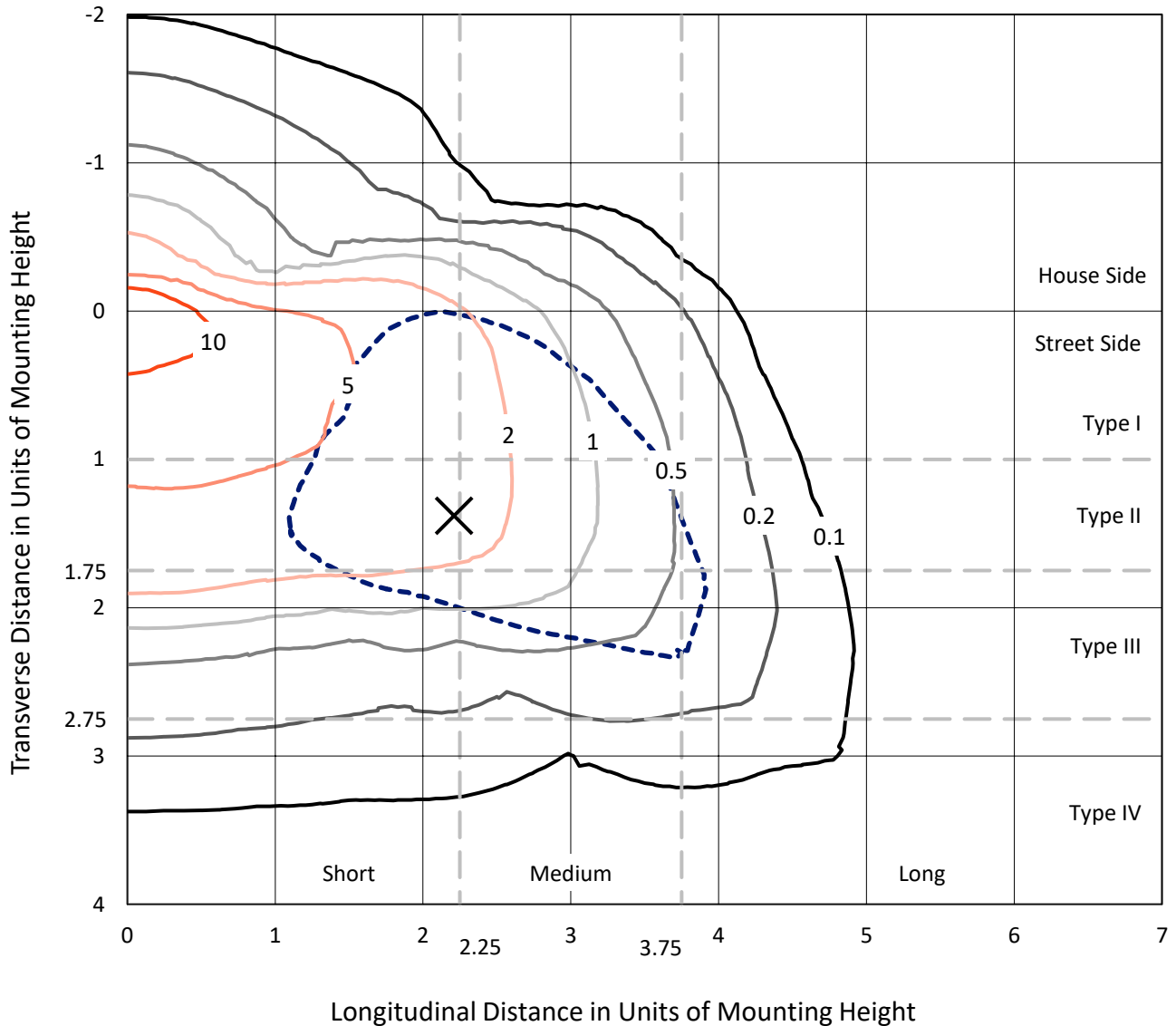
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

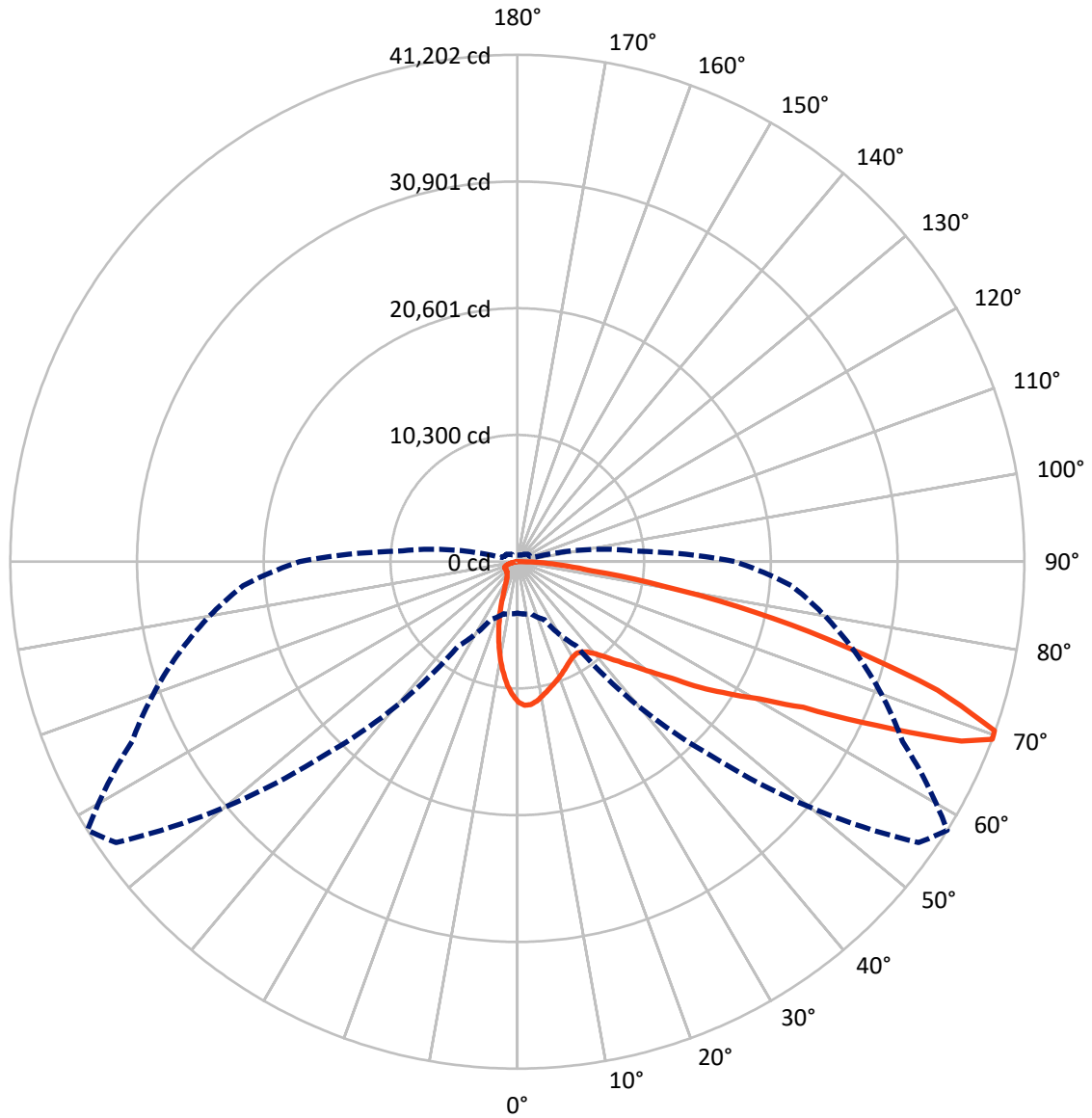
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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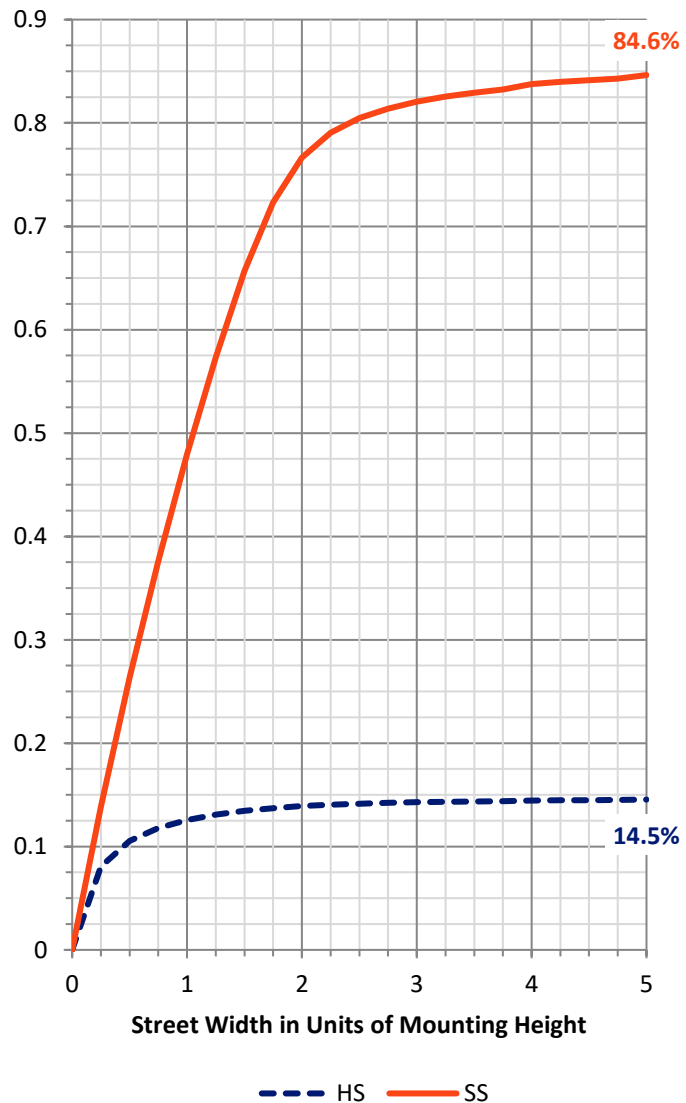
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6055.6	0.0	6055.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	35265.4	0.0	35265.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	41321.0	0.0	41321.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	969.7	2.3
10°-20°	2129.4	5.2
20°-30°	2751.1	6.7
30°-40°	3573.2	8.6
40°-50°	5194.9	12.6
50°-60°	8289.4	20.1
60°-70°	11073.6	26.8
70°-80°	6383.5	15.4
80°-90°	956.1	2.3
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°	41321.0	100.0
0°-180°	41321.0	100.0



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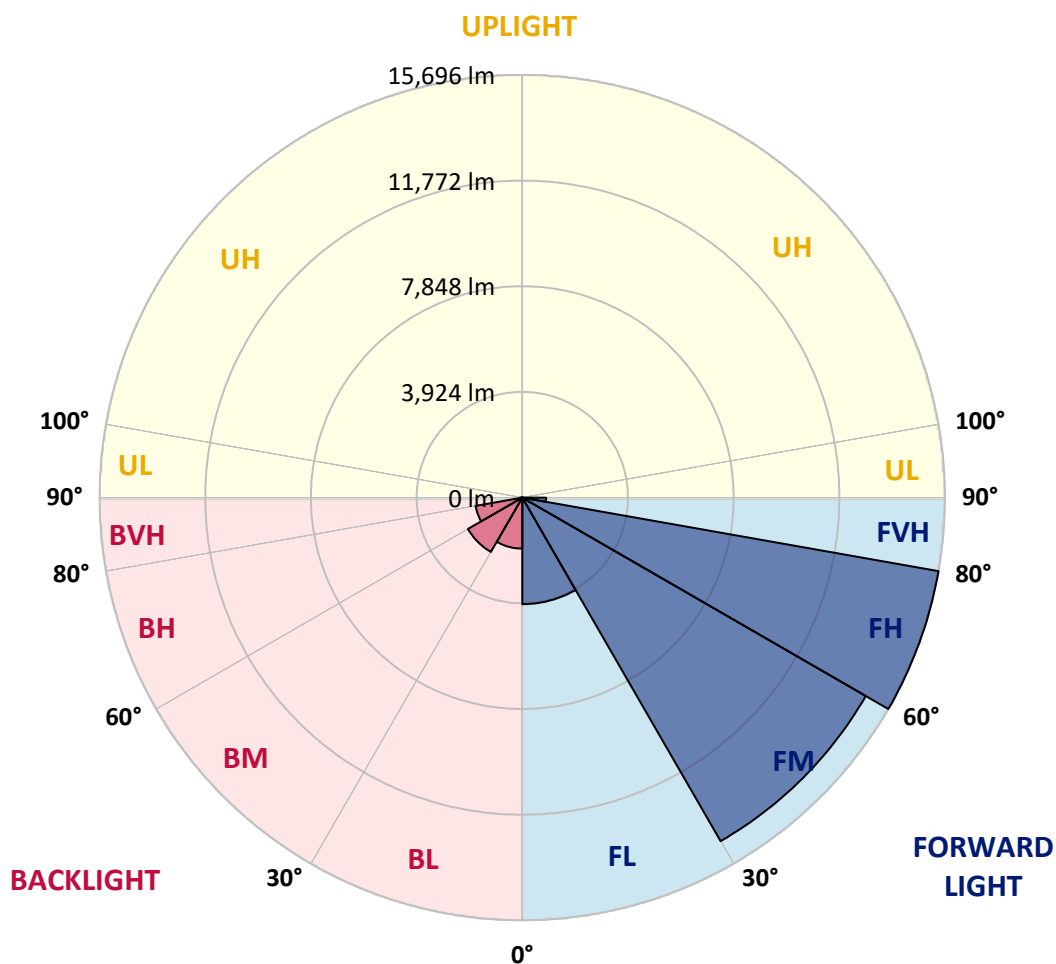
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3957.5	9.6			
FM	(30°-60°)	14728.8	35.6			
FH	(60°-80°)	15696.3	38.0			G5
FVH	(80°-90°)	882.9	2.1			G5
BL	(0°-30°)	1892.7	4.6	B3/2500		
BM	(30°-60°)	2328.8	5.6	B2/2500		
BH	(60°-80°)	1760.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	73.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11418.7	11418.7	11418.7	11418.7	11418.7	11418.7	11418.7	11418.7	11418.7	11418.7	11418.7
2.5°	11842.7	11875.0	11865.8	11854.3	11835.8	11785.1	11702.2	11688.3	11635.3	11522.4	11381.8
5°	11660.7	11688.3	11690.6	11706.8	11729.8	11720.6	11660.7	11653.8	11575.4	11423.3	11188.3
7.5°	11036.2	11073.0	11153.7	11243.6	11324.2	11400.3	11418.7	11430.2	11381.8	11206.7	10893.3
10°	10333.3	10370.2	10407.0	10540.7	10738.9	10927.9	11084.6	11105.3	11116.8	10955.5	10573.0
12.5°	9554.4	9630.4	9708.8	9907.0	10172.0	10469.3	10745.8	10789.6	10867.9	10745.8	10296.4
15°	8893.0	8971.3	9084.3	9261.7	9582.0	10010.7	10400.1	10471.6	10626.0	10563.7	10038.3
17.5°	8434.4	8462.1	8540.4	8743.2	9088.9	9540.6	10061.4	10204.2	10450.8	10434.7	9817.1
20°	8072.6	8107.2	8155.6	8280.0	8639.5	9116.5	9745.7	9930.0	10264.2	10319.5	9598.2
22.5°	7920.5	7945.9	7938.9	8005.8	8250.0	8729.4	9425.3	9644.3	10098.2	10241.1	9395.4
25°	7929.7	7952.8	7918.2	7902.1	8047.2	8388.3	9091.2	9370.0	9964.6	10188.1	9211.0
27.5°	8084.1	8100.3	8035.7	7971.2	7982.7	8176.3	8814.6	9123.4	9851.7	10211.2	9056.6
30°	8291.5	8321.5	8280.0	8201.6	8116.4	8125.6	8637.2	8941.4	9798.7	10291.8	8982.9
32.5°	8558.8	8586.5	8568.1	8505.8	8395.2	8273.1	8593.4	8874.6	9803.3	10455.4	8966.7
35°	8840.0	8895.3	8925.3	8920.6	8830.8	8618.8	8766.2	8999.0	9913.9	10729.7	9061.2
37.5°	9158.0	9204.1	9333.1	9416.1	9333.1	9086.6	9155.7	9317.0	10158.2	11126.0	9268.6
40°	9466.8	9535.9	9724.9	9983.0	9950.8	9734.1	9750.3	9856.3	10589.1	11716.0	9674.2
42.5°	9789.4	9872.4	10201.9	10584.5	10660.5	10492.3	10536.1	10630.6	11202.1	12534.1	10370.2
45°	10204.2	10303.3	10708.9	11186.0	11485.5	11381.8	11506.3	11552.4	12022.5	13598.7	11287.3
47.5°	10738.9	10854.1	11354.2	11948.7	12372.8	12467.2	12683.9	12656.2	13038.8	14859.3	12476.5
50°	11639.9	11704.5	12176.9	12783.0	13366.0	13792.3	14027.4	14071.2	14299.3	16085.3	13806.1
52.5°	12711.5	12769.1	13110.2	13640.2	14370.7	15274.1	15854.8	15712.0	15767.3	17578.6	15361.7
55°	13916.8	14013.6	14230.2	14582.8	15529.9	16859.6	18025.7	18060.2	17447.2	19007.4	16852.7
57.5°	14850.1	15013.7	15384.7	15887.1	17087.7	18622.5	20189.6	20212.6	19429.1	20532.9	18498.1
60°	14380.0	14573.5	15421.6	16645.3	19131.8	21699.0	22775.2	22643.8	21357.9	22270.5	20505.3
62.5°	12352.0	12386.6	13619.5	15532.2	19760.9	25814.8	26623.7	26068.3	23932.0	24473.6	22544.7
65°	7994.2	8220.1	9197.2	11877.3	17693.8	28098.5	33366.6	32083.0	27540.9	26974.0	24252.4
67.5°	5046.8	4989.2	5394.8	6782.1	12170.0	26086.7	39120.9	38918.1	32260.4	28552.5	23844.5
69°	4184.9	4249.5	4387.7	5198.9	8374.5	22272.8	39800.7	41201.8	34548.8	28428.1	22362.7
70°	3795.5	3825.4	3970.6	4609.0	6461.8	18654.8	38685.3	41139.6	35447.5	27907.3	21288.8
72.5°	3012.0	3009.7	3258.5	3834.7	4830.2	10649.0	31765.0	35717.2	34442.8	25483.0	17590.1
75°	2288.4	2325.2	2599.5	3244.7	4450.0	5818.8	22166.8	27506.3	27508.6	20127.3	10976.2
77.5°	1650.0	1673.1	1993.4	2723.9	4191.9	4717.3	14764.8	19728.7	18546.5	9222.5	3449.8
80°	1080.8	1094.6	1338.9	2157.0	3779.3	4450.0	8754.7	12075.5	8747.8	2447.4	1140.7
82.5°	592.3	661.4	818.1	1396.5	3032.7	4111.2	5321.0	6111.5	3281.6	1090.0	594.6
85°	297.3	315.7	460.9	815.8	1981.9	3401.4	3705.6	3505.1	1693.8	541.6	308.8
87.5°	87.6	110.6	191.3	315.7	804.3	1772.1	2062.5	1850.5	652.2	195.9	64.5
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°	11418.7	11418.7	11418.7	11418.7	11418.7	11418.7	11418.7	11418.7	11418.7	11418.7	11418.7
2.5°	11324.2	11282.7	11098.4	10932.5	10780.4	10619.1	10483.1	10363.3	10374.8	10377.1	10254.9
5°	11066.1	10971.6	10621.4	10294.1	10017.6	9667.3	9367.7	9174.1	9077.4	8948.3	8994.4
7.5°	10715.8	10533.8	10047.5	9503.7	8994.4	8540.4	8047.2	7708.5	7491.9	7282.2	7309.8
10°	10354.0	10061.4	9353.9	8634.9	7975.8	7249.9	6620.8	6081.5	5680.5	5530.8	5431.7
12.5°	9983.0	9598.2	8699.4	7743.1	6832.8	5964.0	5072.2	4493.7	4051.3	3816.2	3846.2
15°	9644.3	9176.4	8017.3	6851.2	5669.0	4634.3	3744.8	3194.0	2885.2	2820.7	2857.6
17.5°	9330.8	8717.9	7378.9	5984.7	4604.4	3475.2	2813.8	2502.7	2378.2	2343.7	2341.4
20°	9008.2	8328.4	6662.3	5058.3	3588.1	2693.9	2309.1	2163.9	2140.9	2154.7	2157.0
22.5°	8681.0	7846.8	5924.8	4138.8	2857.6	2203.1	2018.7	1979.5	1998.0	2030.2	2034.9
25°	8379.1	7422.7	5215.0	3332.3	2281.4	1935.8	1845.9	1845.9	1887.4	1935.8	1938.1
27.5°	8130.2	7012.5	4507.6	2645.5	1910.4	1742.2	1712.2	1728.4	1786.0	1822.8	1825.1
30°	7925.1	6630.0	3839.3	2120.1	1680.0	1587.8	1580.9	1608.5	1650.0	1684.6	1686.9
32.5°	7770.7	6293.5	3214.8	1781.4	1521.0	1470.3	1468.0	1488.7	1511.7	1521.0	1530.2
35°	7710.8	6014.7	2643.2	1567.0	1415.0	1382.7	1382.7	1380.4	1389.6	1394.2	1398.8
37.5°	7759.2	5800.4	2200.8	1428.8	1336.6	1313.6	1299.7	1285.9	1281.3	1281.3	1283.6
40°	7964.3	5687.5	1871.2	1338.9	1281.3	1246.7	1221.4	1205.2	1189.1	1193.7	1198.3
42.5°	8399.8	5708.2	1647.7	1279.0	1232.9	1184.5	1147.6	1129.2	1117.7	1131.5	1129.2
45°	9093.5	5915.6	1504.8	1237.5	1184.5	1122.3	1087.7	1069.3	1069.3	1090.0	1096.9
47.5°	10063.7	6312.0	1428.8	1205.2	1147.6	1073.9	1039.3	1025.5	1030.1	1064.7	1067.0
50°	11248.2	7001.0	1415.0	1189.1	1129.2	1039.3	1000.1	986.3	997.8	1034.7	1039.3
52.5°	12554.8	7888.2	1481.8	1191.4	1113.1	1018.6	967.9	947.1	958.7	988.6	997.8
55°	14103.4	8999.0	1654.6	1200.6	1090.0	1007.1	944.8	898.7	912.6	933.3	935.6
57.5°	15684.3	10400.1	1958.8	1202.9	1071.6	986.3	905.7	845.7	845.7	859.6	866.5
60°	17615.5	11925.7	2359.8	1205.2	1073.9	956.4	852.7	785.8	776.6	783.5	785.8
62.5°	19532.8	13202.4	2426.6	1198.3	1096.9	926.4	795.0	725.9	709.8	707.5	702.9
65°	20378.5	12965.0	1988.8	1166.1	1122.3	908.0	749.0	668.3	640.6	631.4	631.4
67.5°	19000.4	10967.0	1495.6	1122.3	1106.2	889.5	705.2	619.9	587.6	569.2	569.2
69°	17705.3	9754.9	1343.5	1092.3	1064.7	859.6	677.5	594.6	555.4	534.6	527.7
70°	16705.2	8920.6	1279.0	1067.0	1025.5	825.0	656.8	576.1	532.3	509.3	504.7
72.5°	13331.4	6998.7	1120.0	970.2	873.4	693.6	583.0	518.5	477.0	451.7	444.8
75°	7683.1	3793.2	928.7	843.4	702.9	539.2	493.2	451.7	419.4	396.4	389.5
77.5°	2364.4	1465.7	672.9	666.0	516.2	417.1	394.1	377.9	354.9	329.5	324.9
80°	995.5	746.7	456.3	449.4	343.4	290.4	283.5	281.1	271.9	251.2	244.3
82.5°	546.2	421.7	318.0	276.5	207.4	168.2	175.1	177.4	170.5	149.8	136.0
85°	267.3	230.4	154.4	124.4	94.5	59.9	57.6	69.1	64.5	46.1	50.7
87.5°	53.0	64.5	41.5	18.4	9.2	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)