

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: P531392

Luminaire Tested: **GALN-SA6C-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28920 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 321
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: 24 FT



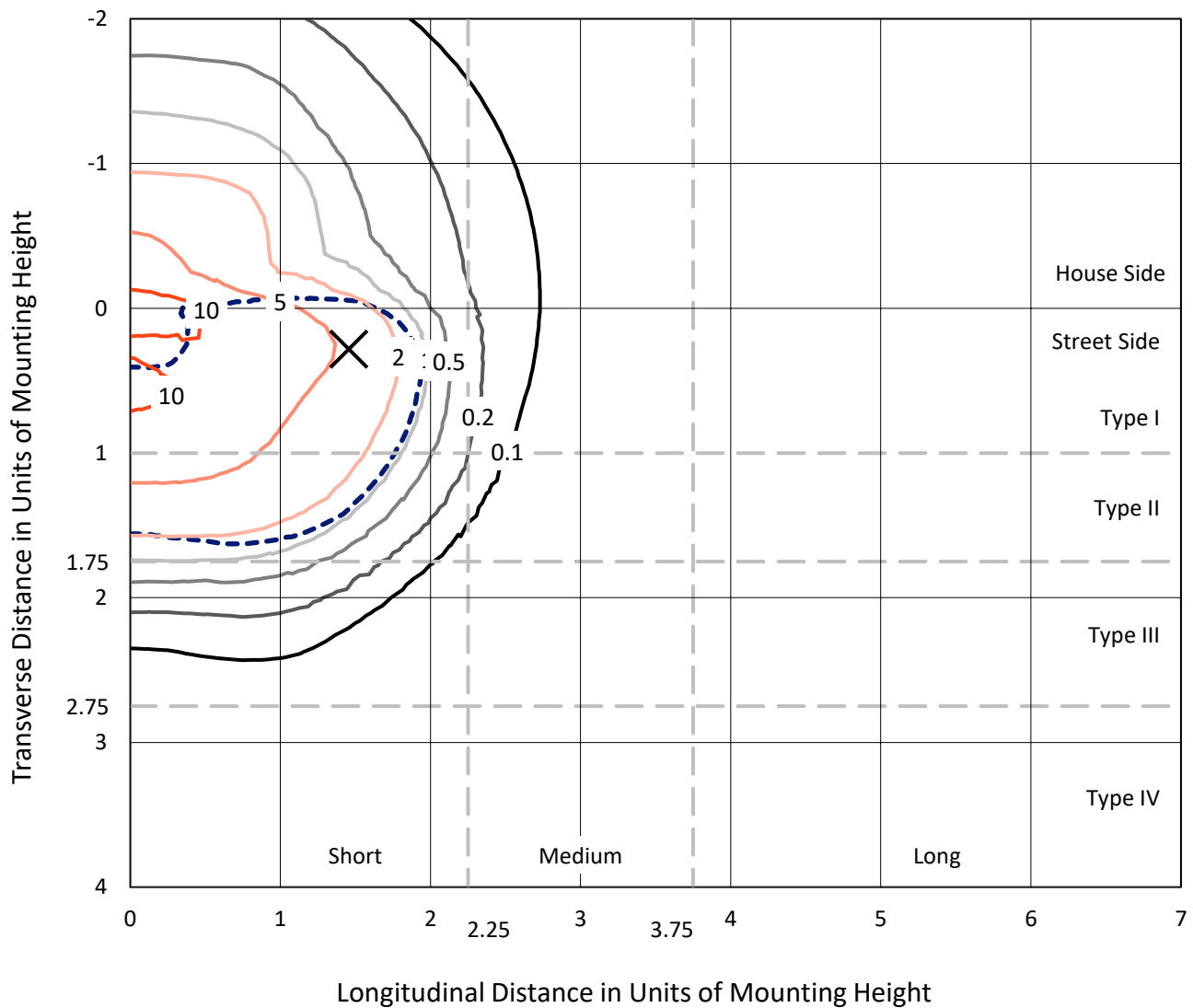
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

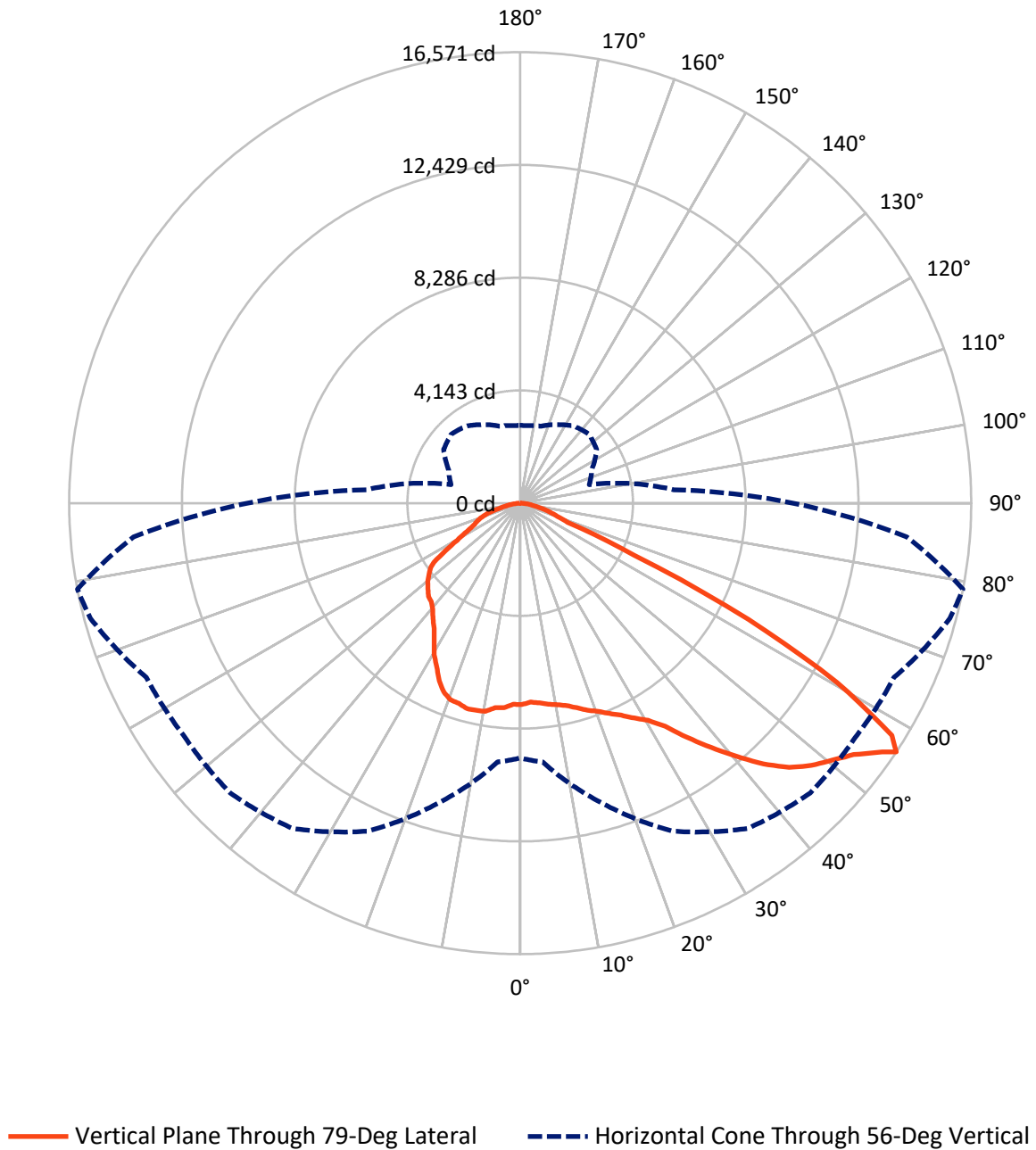
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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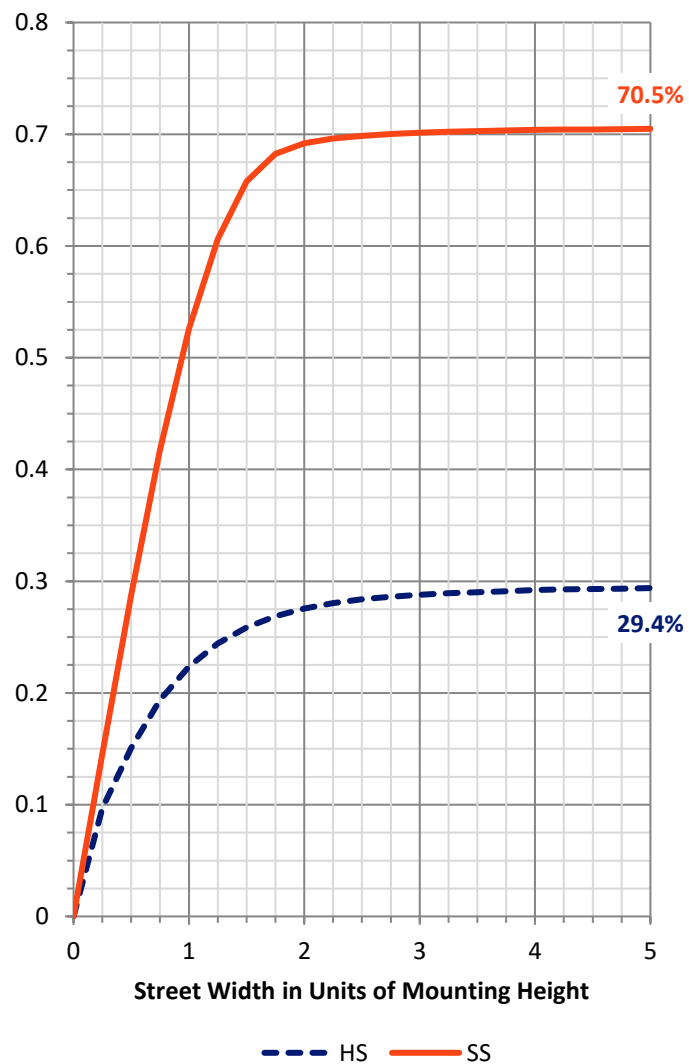
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8540.7	0.0	8540.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	20379.3	0.0	20379.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	28920.0	0.0	28920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.8	2.3
10°-20°	1841.1	6.4
20°-30°	3149.8	10.9
30°-40°	4827.5	16.7
40°-50°	6524.4	22.6
50°-60°	7493.5	25.9
60°-70°	3415.7	11.8
70°-80°	842.2	2.9
80°-90°	153.1	0.5
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°	28920.0	100.0
0°-180°	28920.0	100.0

Coefficient of Utilization



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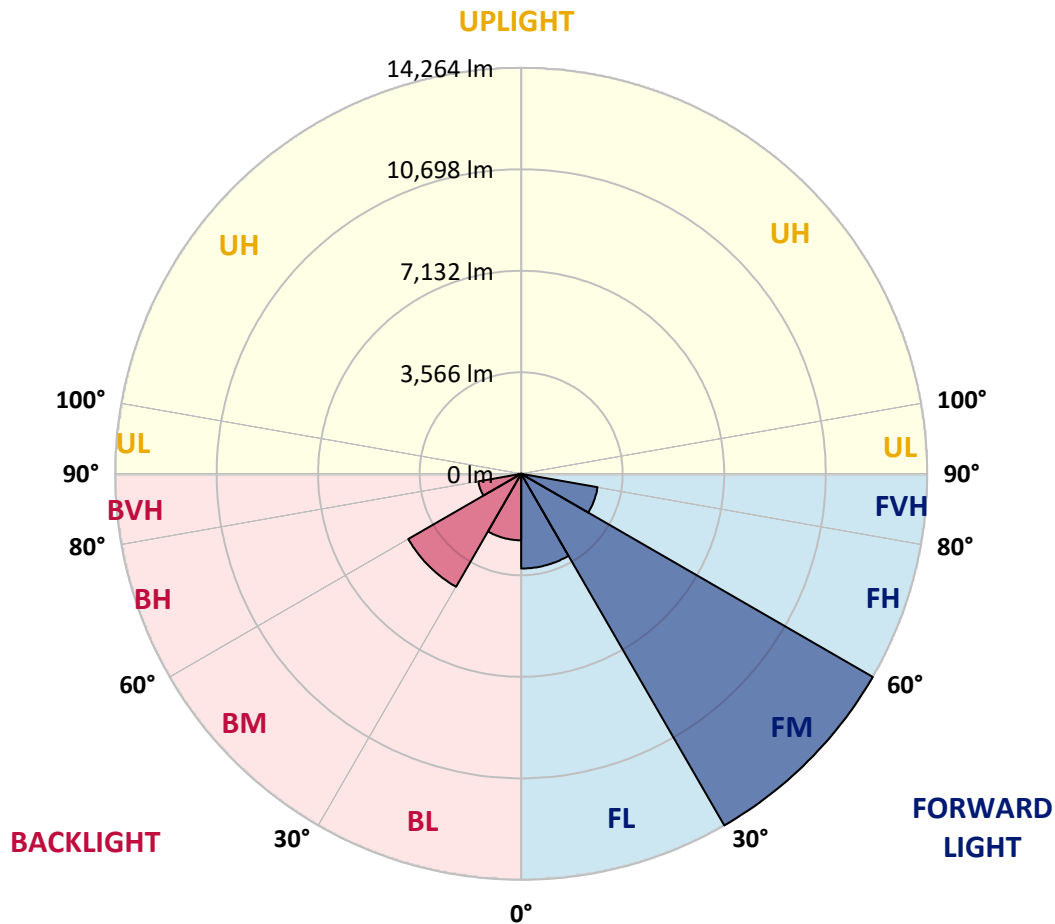
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3327.5	11.5			
FM	(30°-60°)	14264.2	49.3			
FH	(60°-80°)	2726.5	9.4			G2/5000
FVH	(80°-90°)	61.1	0.2			G1/100
BL	(0°-30°)	2336.3	8.1	B3/2500		
BM	(30°-60°)	4581.1	15.8	B3/5000		
BH	(60°-80°)	1531.4	5.3	B3/2500		G3/2500
BVH	(80°-90°)	91.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7399.5	7399.5	7399.5	7399.5	7399.5	7399.5	7399.5	7399.5	7399.5	7399.5	7399.5
2.5°	7039.2	7021.2	7064.5	7096.9	7136.5	7186.9	7212.2	7226.6	7352.7	7320.2	7417.5
5°	6887.9	6841.1	6873.5	6898.7	6967.2	7028.4	7096.9	7204.9	7320.2	7370.7	7489.5
7.5°	6754.6	6729.4	6722.2	6740.2	6833.9	6913.1	7032.0	7190.5	7377.9	7460.7	7529.2
10°	6534.9	6498.9	6552.9	6671.8	6697.0	6862.7	6999.6	7226.6	7388.7	7532.8	7734.5
12.5°	6437.6	6401.6	6412.4	6480.9	6657.4	6815.9	6978.0	7233.8	7576.0	7633.6	7903.8
15°	6592.5	6556.5	6567.3	6549.3	6718.6	6801.5	7057.2	7377.9	7705.7	7803.0	8091.2
17.5°	6945.6	6949.2	6902.3	6862.7	6823.1	6999.6	7176.1	7464.3	7756.1	8001.1	8217.2
20°	7619.2	7500.4	7406.7	7183.3	7122.1	7197.7	7421.1	7698.5	7961.5	8163.2	8408.2
22.5°	8138.0	8148.8	8015.5	7648.1	7514.8	7547.2	7738.1	7965.1	8253.3	8397.4	8678.4
25°	8890.9	8815.3	8671.2	8379.4	8080.4	8105.6	8246.1	8451.4	8530.7	8631.5	8937.7
27.5°	9579.0	9600.6	9316.0	9042.2	8671.2	8599.1	8851.3	8887.3	8754.0	8944.9	9049.4
30°	10277.9	10259.8	10072.5	9751.9	9388.0	9402.5	9514.1	9337.6	9153.9	9258.4	9330.4
32.5°	11002.0	10796.6	10789.4	10501.2	10223.8	10090.5	9953.6	10040.1	9755.5	9777.1	9708.7
35°	11582.0	11610.8	11445.1	11239.7	11102.8	10868.7	10494.0	10648.9	10594.9	10569.7	10274.3
37.5°	12003.4	11891.8	11974.6	11906.2	11776.5	11484.7	11095.6	11243.3	11268.5	11391.0	11048.8
40°	12349.3	12302.5	12522.2	12558.2	12468.2	11837.7	11138.9	11578.4	11956.6	12223.2	11816.1
42.5°	12515.0	12615.9	12846.4	13123.8	12922.1	12248.4	11362.2	11834.1	12677.1	13098.6	12543.8
45°	12738.4	12608.7	12950.9	13458.8	13462.4	12594.3	11578.4	12180.0	13239.1	13851.5	13041.0
47.5°	12511.4	12576.2	12929.3	13574.1	13739.8	12958.1	12162.0	12669.9	13858.7	14402.7	13502.1
50°	12003.4	12133.1	12778.0	13448.0	13948.8	13343.6	12832.0	13199.5	14431.5	14845.8	13577.7
52.5°	11473.9	11545.9	12554.6	13545.3	14042.4	13840.7	13729.0	13930.8	15130.4	15346.5	13671.4
55°	10032.9	10375.1	11816.1	13502.1	14500.0	14737.7	14651.3	14946.7	15922.9	16139.1	14182.9
56°	9366.4	9546.6	11373.0	13300.3	14590.0	15065.5	15022.3	15155.6	16344.4	16571.4	14262.2
57.5°	8134.4	8148.8	9697.9	12406.9	14251.4	15162.8	15119.6	15224.1	16261.6	16106.7	13566.9
60°	5090.3	5313.7	6599.7	9543.0	12118.7	14067.7	14312.6	13473.3	13711.0	13383.2	10555.3
62.5°	2637.0	2604.6	3458.4	5580.2	8044.3	10072.5	10299.5	10259.8	9892.4	9413.3	6895.1
65°	1314.9	1322.1	1808.4	2763.1	4121.2	5274.0	5908.1	5976.5	5000.2	4600.4	3271.0
67.5°	954.7	990.7	1300.5	1689.6	1941.7	2172.3	2662.2	2611.8	1977.8	1880.5	1743.6
70°	742.1	774.5	1055.5	1289.7	1170.8	1170.8	1275.3	1318.5	1408.6	1448.2	1495.0
72.5°	540.4	565.6	807.0	889.8	767.3	825.0	954.7	1055.5	1149.2	1163.6	1217.6
75°	371.1	392.7	529.6	489.9	461.1	569.2	698.9	792.5	861.0	897.0	929.4
77.5°	241.4	248.6	302.6	255.8	295.4	367.5	453.9	533.2	601.6	630.4	637.6
80°	108.1	118.9	129.7	162.1	205.3	263.0	324.2	389.1	432.3	443.1	464.7
82.5°	61.2	61.2	79.3	115.3	151.3	190.9	234.2	281.0	331.4	342.2	338.6
85°	32.4	32.4	46.8	68.4	93.7	111.7	108.1	111.7	118.9	136.9	133.3
87.5°	10.8	10.8	14.4	14.4	18.0	21.6	18.0	25.2	32.4	32.4	32.4
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°	7399.5	7399.5	7399.5	7399.5	7399.5	7399.5	7399.5	7399.5	7399.5	7399.5	7399.5
2.5°	7388.7	7421.1	7377.9	7471.5	7471.5	7453.5	7363.5	7392.3	7413.9	7413.9	7431.9
5°	7529.2	7518.4	7547.2	7435.5	7367.1	7341.8	7194.1	7122.1	7060.9	7057.2	7003.2
7.5°	7608.4	7579.6	7568.8	7485.9	7183.3	6999.6	6682.6	6498.9	6459.2	6318.7	6372.8
10°	7734.5	7788.6	7734.5	7284.2	6862.7	6441.2	6131.4	5846.8	5735.1	5645.1	5591.0
12.5°	7993.9	7968.7	7655.3	7046.4	6455.6	5954.9	5493.8	5194.8	5083.1	5003.8	4996.6
15°	8213.6	8087.6	7608.4	6671.8	5821.6	5288.4	4910.2	4697.6	4647.2	4654.4	4686.8
17.5°	8289.3	8202.8	7363.5	6282.7	5349.7	4722.8	4546.3	4513.9	4560.7	4614.8	4629.2
20°	8408.2	8271.3	7262.6	5753.2	4766.1	4369.8	4359.0	4474.3	4560.7	4640.0	4650.8
22.5°	8656.7	8310.9	6934.8	5252.4	4366.2	4265.3	4369.8	4467.1	4600.4	4665.2	4607.6
25°	8728.8	8224.4	6473.6	4650.8	4114.0	4200.5	4312.2	4445.5	4539.1	4575.1	4600.4
27.5°	8790.0	8091.2	5850.4	4250.9	4034.8	4196.9	4312.2	4423.8	4474.3	4506.7	4535.5
30°	8963.0	8051.5	5310.0	3984.3	3984.3	4124.8	4272.5	4301.4	4369.8	4409.4	4459.9
32.5°	9049.4	7777.7	4755.3	3815.0	3933.9	4160.9	4171.7	4225.7	4229.3	4261.7	4207.7
35°	9276.4	7583.2	4240.1	3692.5	3955.5	4124.8	4178.9	4146.4	3969.9	3883.5	3901.5
37.5°	9442.1	7485.9	3869.1	3678.1	3959.1	4164.5	4193.3	3948.3	3764.6	3620.5	3656.5
40°	9888.8	7244.6	3588.1	3652.9	3991.5	4207.7	4128.4	3861.9	3530.4	3382.7	3357.5
42.5°	10231.0	7071.7	3411.5	3624.1	4016.8	4268.9	4096.0	3688.9	3350.3	3213.4	3249.4
45°	10627.3	7032.0	3317.9	3631.3	4060.0	4301.4	4056.4	3555.6	3195.4	3141.4	3130.6
47.5°	10767.8	6747.4	3217.0	3570.1	4049.2	4290.5	3923.1	3454.8	3137.8	3145.0	3173.8
50°	10533.6	6455.6	3141.4	3444.0	3977.1	4193.3	3714.2	3321.5	3105.3	3195.4	3245.8
52.5°	10234.6	6156.6	2986.5	3274.6	3829.4	4042.0	3616.9	3314.3	3072.9	3044.1	3054.9
55°	10324.7	5911.7	2770.3	3044.1	3591.7	3761.0	3508.8	3245.8	2993.7	2885.6	2921.6
56°	10032.9	5659.5	2629.8	2900.0	3429.6	3580.9	3454.8	3184.6	2928.8	2856.8	2856.8
57.5°	9207.9	4812.9	2446.1	2669.4	3087.3	3267.4	3350.3	3148.6	2856.8	2730.7	2734.3
60°	6790.7	3422.4	2193.9	2352.4	2557.8	2701.9	3087.3	3047.7	2676.6	2590.2	2557.8
62.5°	4186.1	2500.1	2013.8	2075.0	2179.5	2298.4	2694.7	2759.5	2485.7	2392.0	2370.4
65°	2345.2	1912.9	1876.9	1902.1	1952.5	2013.8	2237.1	2381.2	2193.9	2049.8	2042.6
67.5°	1714.8	1711.2	1740.0	1761.6	1783.2	1783.2	1837.3	1894.9	1869.7	1754.4	1743.6
70°	1523.8	1534.7	1556.3	1559.9	1567.1	1541.9	1498.6	1480.6	1509.4	1437.4	1423.0
72.5°	1257.3	1293.3	1318.5	1322.1	1282.5	1250.1	1192.4	1131.2	1109.6	1095.2	1091.5
75°	965.5	990.7	1001.5	997.9	983.5	936.6	868.2	807.0	767.3	724.1	745.7
77.5°	652.0	688.1	706.1	706.1	684.5	612.4	580.0	533.2	493.5	446.7	453.9
80°	457.5	482.7	511.6	507.9	471.9	435.9	389.1	345.8	313.4	277.4	273.8
82.5°	342.2	356.6	371.1	363.8	338.6	302.6	270.2	230.6	194.5	169.3	169.3
85°	122.5	133.3	162.1	169.3	183.7	183.7	154.9	129.7	104.5	86.5	86.5
87.5°	36.0	36.0	39.6	39.6	36.0	39.6	32.4	36.0	39.6	25.2	25.2
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)