

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: P322691

Luminaire Tested: **GLEON-SA7C-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26117 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

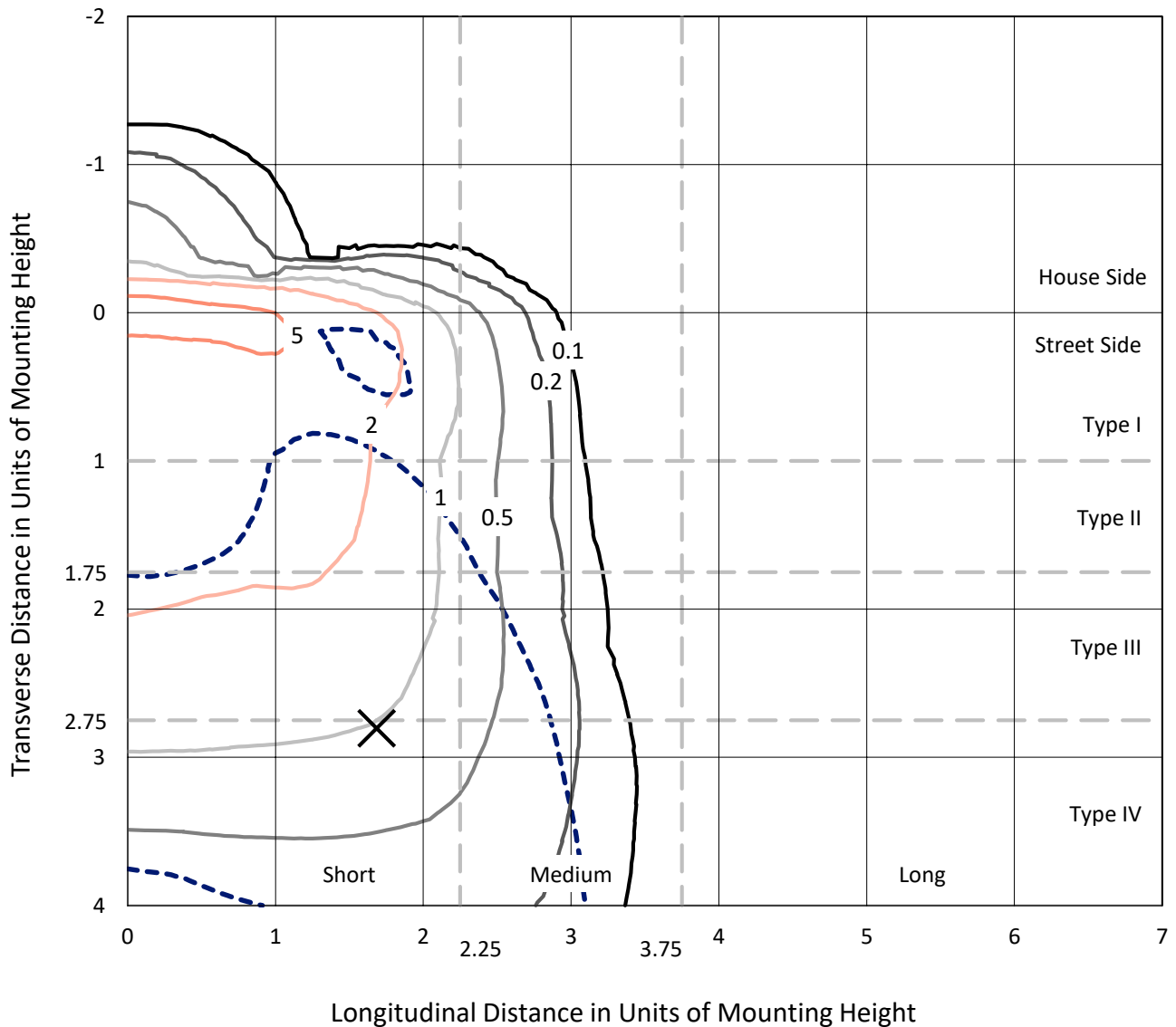
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322691
 CATALOG NUMBER: GLEON-SA7C-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

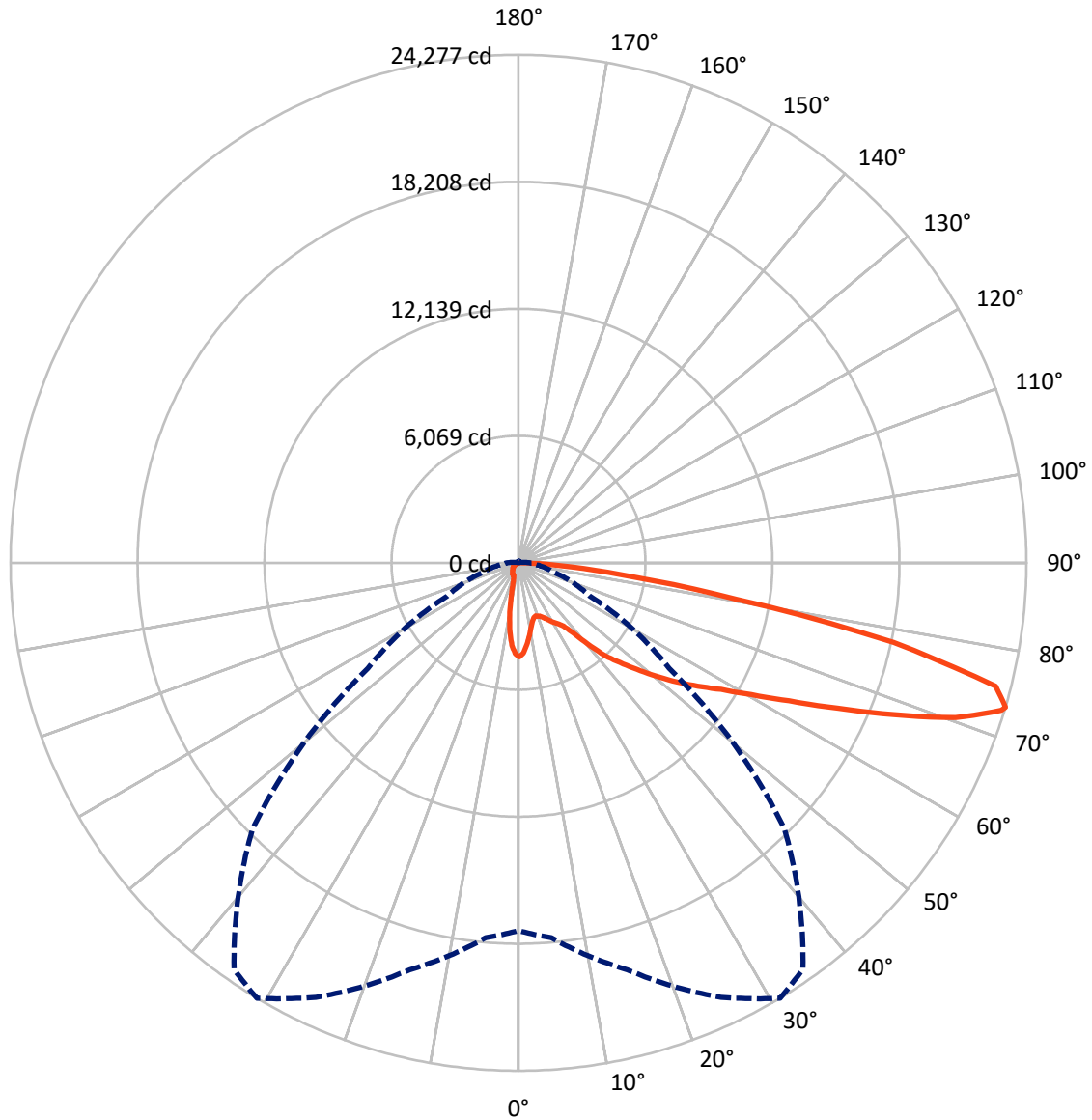
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P322691
CATALOG NUMBER: GLEON-SA7C-827-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P322691
 CATALOG NUMBER: GLEON-SA7C-827-U-T4FT-HSS

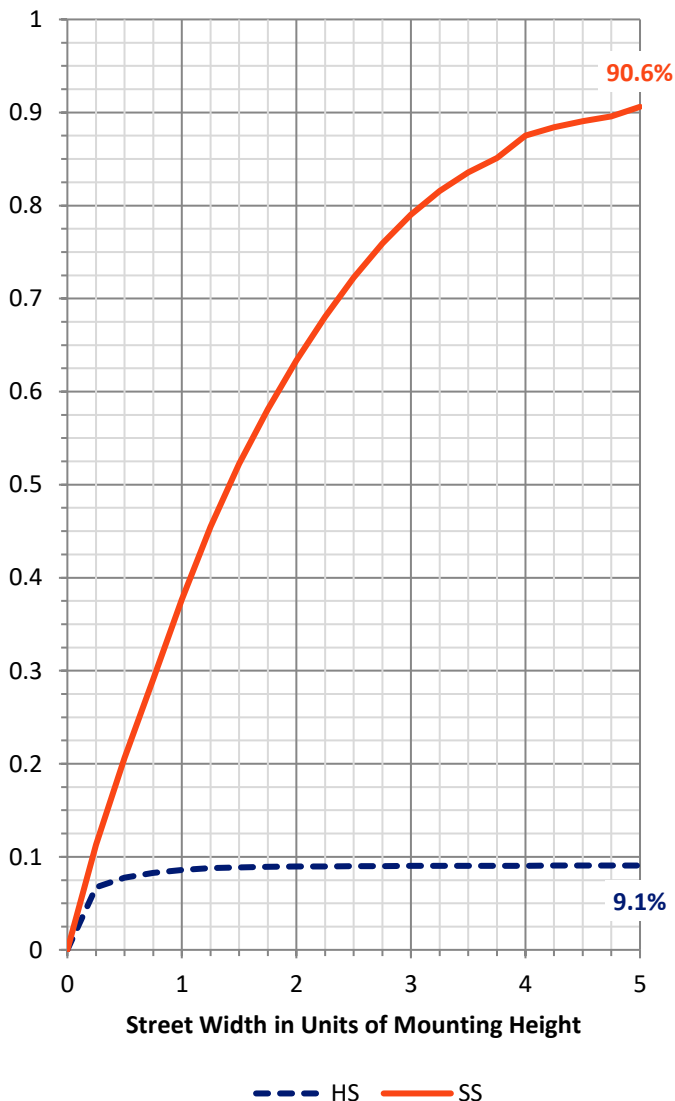
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2380.7	0.0	2380.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	23736.3	0.0	23736.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	26117.0	0.0	26117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	1.4
10°-20°	809.0	3.1
20°-30°	1212.1	4.6
30°-40°	1928.4	7.4
40°-50°	3443.6	13.2
50°-60°	5343.4	20.5
60°-70°	7103.4	27.2
70°-80°	5343.2	20.5
80°-90°	561.5	2.1
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°	26117.0	100.0
0°-180°	26117.0	100.0

Coefficient of Utilization



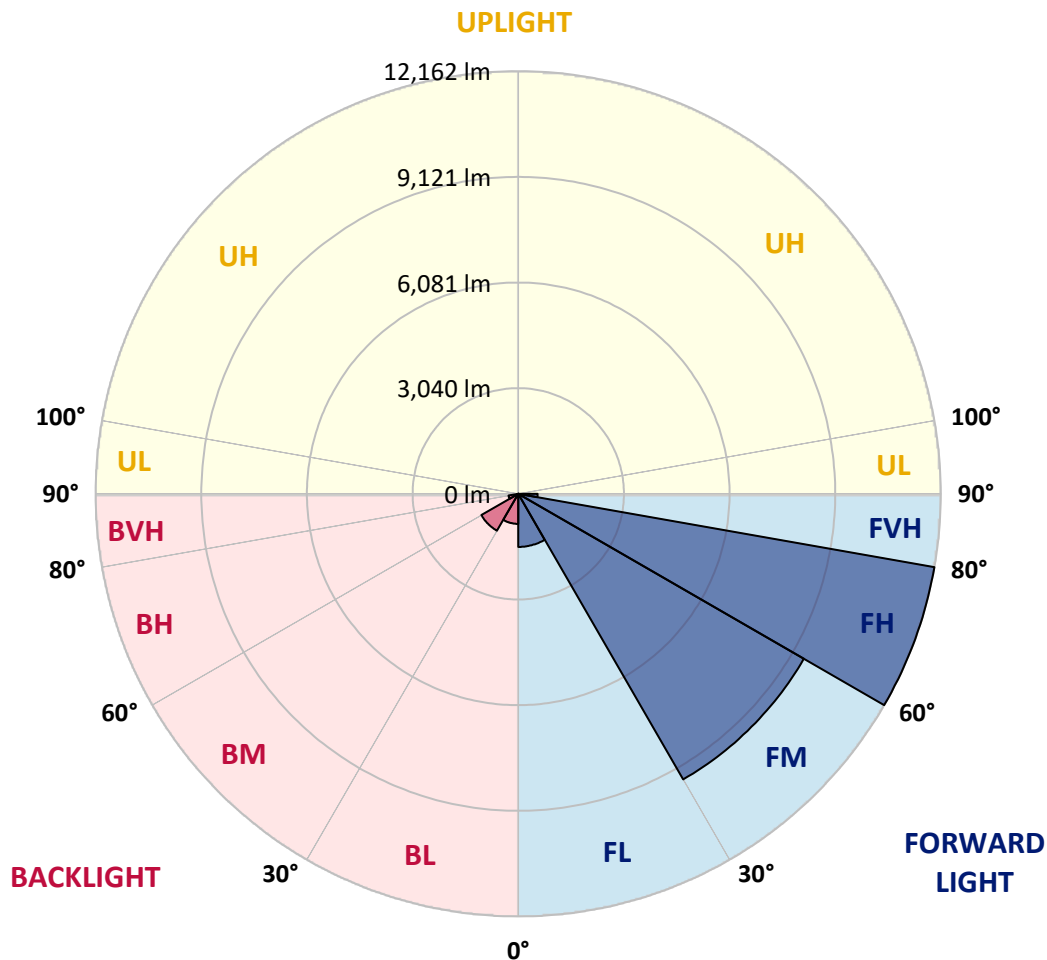
REPORT NUMBER: P322691
 CATALOG NUMBER: GLEON-SA7C-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1527.9	5.9			
FM (30°-60°)	9490.0	36.3			
FH (60°-80°)	12161.7	46.6			G5
FVH (80°-90°)	556.7	2.1			G4/750
BL (0°-30°)	865.7	3.3	B2/1000		
BM (30°-60°)	1225.4	4.7	B2/2500		
BH (60°-80°)	284.8	1.1	B1/500		G1/500
BVH (80°-90°)	4.7	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 IV Short





REPORT NUMBER: P322691

CATALOG NUMBER: GLEON-SA7C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5
2.5°	4258.3	4276.2	4295.4	4299.2	4331.2	4332.5	4378.5	4413.0	4447.5	4480.7	4492.2
5°	3821.3	3850.6	3885.2	3919.7	3987.4	4014.2	4126.7	4241.7	4351.6	4456.4	4507.5
7.5°	3354.8	3388.0	3436.6	3522.2	3597.6	3650.0	3827.6	4032.1	4236.6	4429.6	4540.8
10°	2929.2	2959.9	3011.0	3101.7	3218.0	3289.6	3528.6	3812.3	4112.6	4405.3	4590.6
12.5°	2658.3	2674.9	2703.0	2800.1	2904.9	2985.4	3266.6	3618.0	4010.4	4404.0	4671.1
15°	2608.4	2613.5	2590.5	2634.0	2715.8	2793.7	3078.7	3460.9	3932.4	4424.5	4775.9
17.5°	2687.7	2685.1	2608.4	2603.3	2668.5	2732.4	2986.7	3352.2	3877.5	4471.8	4911.4
20°	2807.8	2798.8	2665.9	2641.6	2710.7	2770.7	2980.3	3311.3	3857.0	4551.0	5076.3
22.5°	2967.5	2952.2	2743.9	2718.3	2792.5	2855.1	3059.6	3350.9	3874.9	4657.1	5268.0
25°	3165.6	3142.6	2878.1	2850.0	2925.4	2988.0	3201.4	3464.7	3928.6	4786.1	5510.8
27.5°	3389.3	3356.1	3092.8	3019.9	3105.6	3170.7	3390.6	3638.5	4013.0	4922.9	5808.6
30°	3600.2	3556.7	3319.0	3198.9	3303.7	3376.5	3595.0	3845.5	4148.4	5133.8	6216.2
32.5°	3812.3	3763.7	3520.9	3377.8	3472.4	3551.6	3805.9	4130.5	4402.7	5455.8	6758.1
35°	4300.5	4249.4	3951.6	3715.2	3713.9	3758.6	4101.1	4520.3	4738.9	5904.4	7404.8
37.5°	5122.3	5092.9	4809.2	4360.6	4240.4	4190.6	4503.7	4985.5	5221.9	6521.7	8134.5
40°	6022.0	5996.4	5678.2	5271.8	5089.0	4966.3	5081.4	5633.5	5904.4	7275.7	8879.6
42.5°	7038.0	6916.6	6349.2	6227.7	6064.2	5970.9	5867.3	6432.2	6742.8	8096.2	9618.3
45°	7960.7	7756.2	7020.1	6836.1	6799.0	6822.0	6879.5	7505.8	7686.0	9071.3	10354.4
47.5°	8510.3	8349.2	7784.4	7608.0	7597.8	7749.9	8184.4	8718.6	8625.3	9921.2	11002.4
50°	9033.0	8887.3	8418.3	8461.7	8509.0	8716.0	9665.6	9965.9	9482.8	10691.8	11596.7
52.5°	9456.0	9233.6	8988.2	9232.3	9464.9	9798.5	11194.1	11085.5	10091.2	11305.3	12105.3
55°	9700.1	9599.1	9718.0	9963.4	10400.4	10942.3	12637.0	12017.1	10535.9	11865.0	12444.0
57.5°	10594.7	10396.6	10633.0	10845.2	11415.2	12173.0	13872.8	12711.1	10856.7	12211.4	12521.9
60°	11677.2	11517.4	11656.7	12009.5	12778.8	13669.6	15028.1	13277.2	11024.1	12433.8	12320.0
62.5°	13399.9	13189.1	13102.2	13497.1	14516.9	15489.5	15904.8	13669.6	10987.1	12335.4	11627.3
65°	15708.0	15489.5	15101.0	15458.8	16756.0	17442.3	16885.1	13752.7	10731.5	11539.2	9876.5
67.5°	18072.3	17913.9	17581.6	18184.8	19355.5	19576.6	17921.5	13550.7	9908.4	9356.3	6977.9
70°	19634.1	19566.3	19782.3	21116.6	22160.7	22096.8	18872.4	12465.7	7723.0	5753.6	3451.9
72.5°	18508.1	18832.8	20427.7	22847.0	24122.4	23601.0	18384.2	9572.3	4414.2	2213.5	998.1
73°	17575.2	17990.5	20137.6	22912.2	24277.1	23705.8	17973.9	8786.3	3762.5	1747.0	756.6
75°	12226.7	12736.6	16671.6	21338.9	23553.7	22586.3	14982.1	5377.9	1743.2	774.5	305.4
77.5°	5936.4	6313.4	9179.9	15417.9	18317.7	17646.8	9326.9	2003.9	787.3	484.4	140.6
80°	2216.1	2464.0	3984.8	7847.0	10585.8	10863.1	4102.4	757.9	524.0	389.8	71.6
82.5°	580.2	646.7	1469.7	3499.2	5425.2	5678.2	1293.3	382.1	383.4	320.8	43.5
85°	185.3	212.1	458.8	1570.7	2556.0	2244.2	337.4	185.3	278.6	239.0	24.3
87.5°	23.0	29.4	145.7	369.3	563.6	313.1	52.4	55.0	118.9	132.9	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322691

CATALOG NUMBER: GLEON-SA7C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5
2.5°	4503.7	4497.3	4498.6	4465.4	4443.6	4400.2	4355.5	4335.0	4313.3	4304.3	4313.3
5°	4526.7	4515.2	4482.0	4379.7	4271.1	4130.5	3998.9	3899.2	3774.0	3739.5	3775.2
7.5°	4562.5	4539.5	4442.4	4234.0	3992.5	3724.1	3422.5	3202.7	3022.5	2906.2	2948.4
10°	4614.9	4571.4	4375.9	4021.9	3589.9	3114.5	2686.4	2352.8	2116.4	2019.3	2015.4
12.5°	4703.1	4621.3	4294.1	3745.8	3097.9	2464.0	1903.0	1541.3	1349.6	1225.6	1223.1
15°	4800.2	4680.1	4190.6	3414.8	2525.3	1764.9	1225.6	950.8	826.9	787.3	782.1
17.5°	4919.1	4747.8	4056.4	3007.2	1926.0	1169.4	800.0	720.8	715.7	711.9	711.9
20°	5068.6	4828.3	3883.9	2540.7	1366.2	780.9	679.9	685.0	687.6	682.5	683.7
22.5°	5242.4	4910.1	3678.1	2039.7	924.0	653.1	650.5	656.9	659.5	656.9	658.2
25°	5444.3	5004.7	3427.6	1514.4	667.1	619.8	626.2	635.2	641.6	641.6	641.6
27.5°	5694.8	5119.7	3126.0	1056.9	576.4	585.3	603.2	619.8	628.8	631.3	631.3
30°	6020.7	5262.8	2764.3	724.6	524.0	539.3	572.5	604.5	621.1	623.7	624.9
32.5°	6432.2	5423.9	2345.1	535.5	479.3	490.8	526.5	580.2	612.2	617.3	617.3
35°	6903.8	5610.5	1894.0	466.5	447.3	451.1	479.3	540.6	596.8	610.9	612.2
37.5°	7420.1	5794.5	1440.3	435.8	420.5	420.5	440.9	493.3	559.8	603.2	608.3
40°	7901.9	5905.7	1009.6	411.5	396.2	396.2	414.1	452.4	515.0	580.2	594.3
42.5°	8346.7	5944.0	702.9	388.5	373.2	377.0	392.3	423.0	470.3	535.5	548.3
45°	8804.2	5937.6	512.5	361.7	350.2	361.7	373.2	396.2	430.7	467.8	470.3
47.5°	9149.3	5884.0	406.4	336.1	328.4	343.8	354.0	369.3	388.5	386.0	386.0
50°	9472.6	5753.6	327.2	301.6	306.7	324.6	329.7	334.8	336.1	311.8	309.3
52.5°	9718.0	5550.4	262.0	264.5	285.0	302.9	297.8	290.1	277.3	247.9	242.8
55°	9799.8	5159.3	205.8	218.5	253.0	276.1	256.9	240.3	216.0	191.7	186.6
57.5°	9651.5	4654.5	167.4	170.0	213.4	232.6	210.9	191.7	164.9	144.4	140.6
60°	9337.1	4093.5	138.0	127.8	164.9	181.5	167.4	148.2	124.0	108.6	107.4
62.5°	8713.5	3495.4	113.7	99.7	125.2	139.3	130.4	116.3	95.9	85.6	84.3
65°	7402.2	2796.3	92.0	80.5	97.1	108.6	101.0	90.7	75.4	67.7	66.5
67.5°	5167.0	1890.2	75.4	66.5	76.7	85.6	79.2	74.1	60.1	58.8	60.1
70°	2492.1	911.2	62.6	53.7	60.1	66.5	63.9	60.1	57.5	66.5	76.7
72.5°	714.4	305.4	49.8	44.7	48.6	52.4	55.0	53.7	62.6	80.5	93.3
73°	549.5	246.7	47.3	42.2	46.0	51.1	53.7	52.4	63.9	81.8	93.3
75°	235.2	118.9	35.8	34.5	38.3	44.7	47.3	47.3	63.9	83.1	89.5
77.5°	106.1	63.9	23.0	26.8	33.2	35.8	39.6	39.6	51.1	63.9	63.9
80°	60.1	34.5	17.9	20.4	24.3	24.3	24.3	21.7	23.0	25.6	28.1
82.5°	38.3	23.0	14.1	16.6	15.3	12.8	10.2	10.2	8.9	10.2	12.8
85°	21.7	12.8	12.8	10.2	6.4	5.1	6.4	5.1	1.3	0.0	1.3
87.5°	12.8	7.7	3.8	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)