

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: P322363

Luminaire Tested: **GLEON-SA9B-827-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322363  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9B-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27368 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

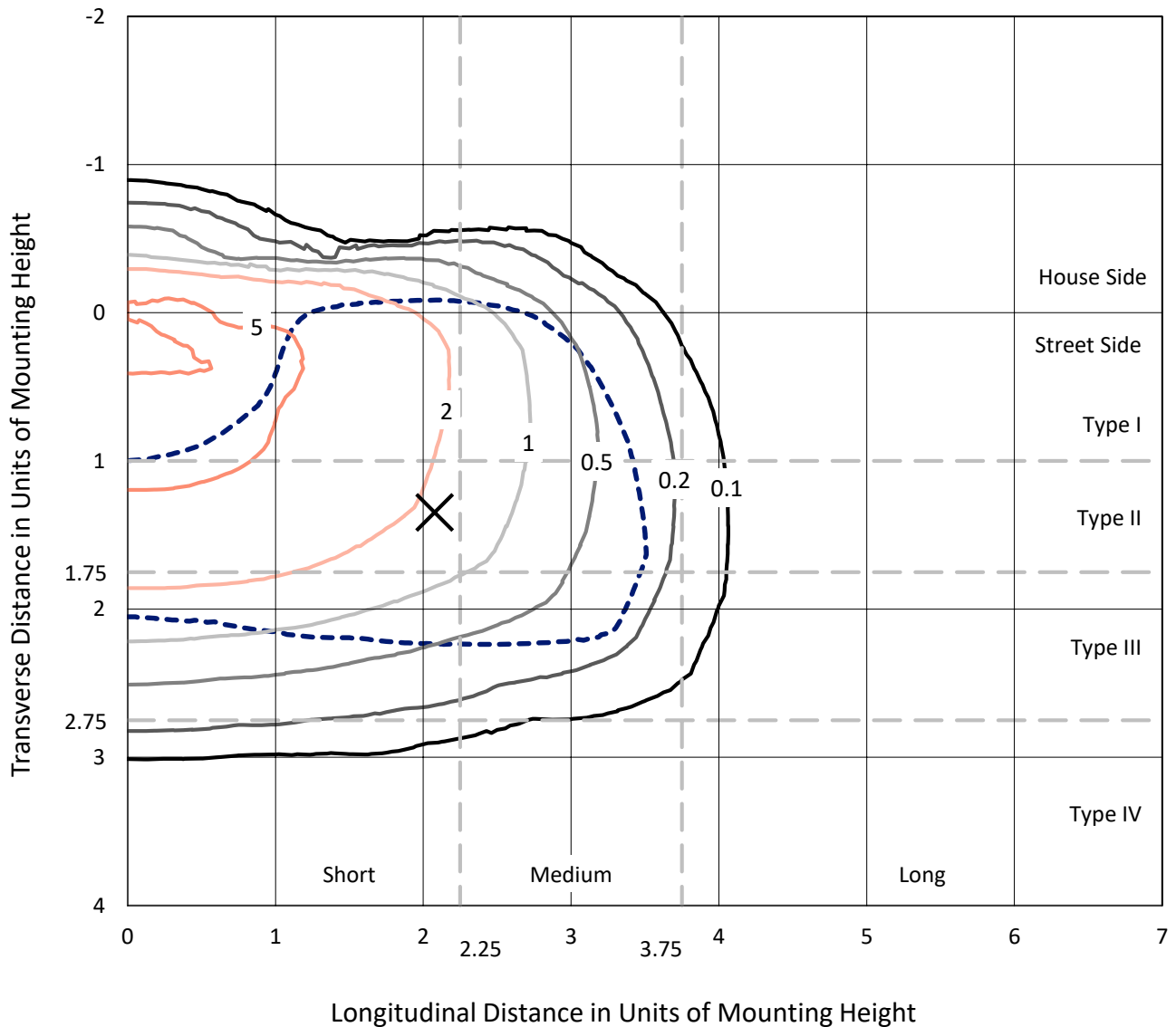
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

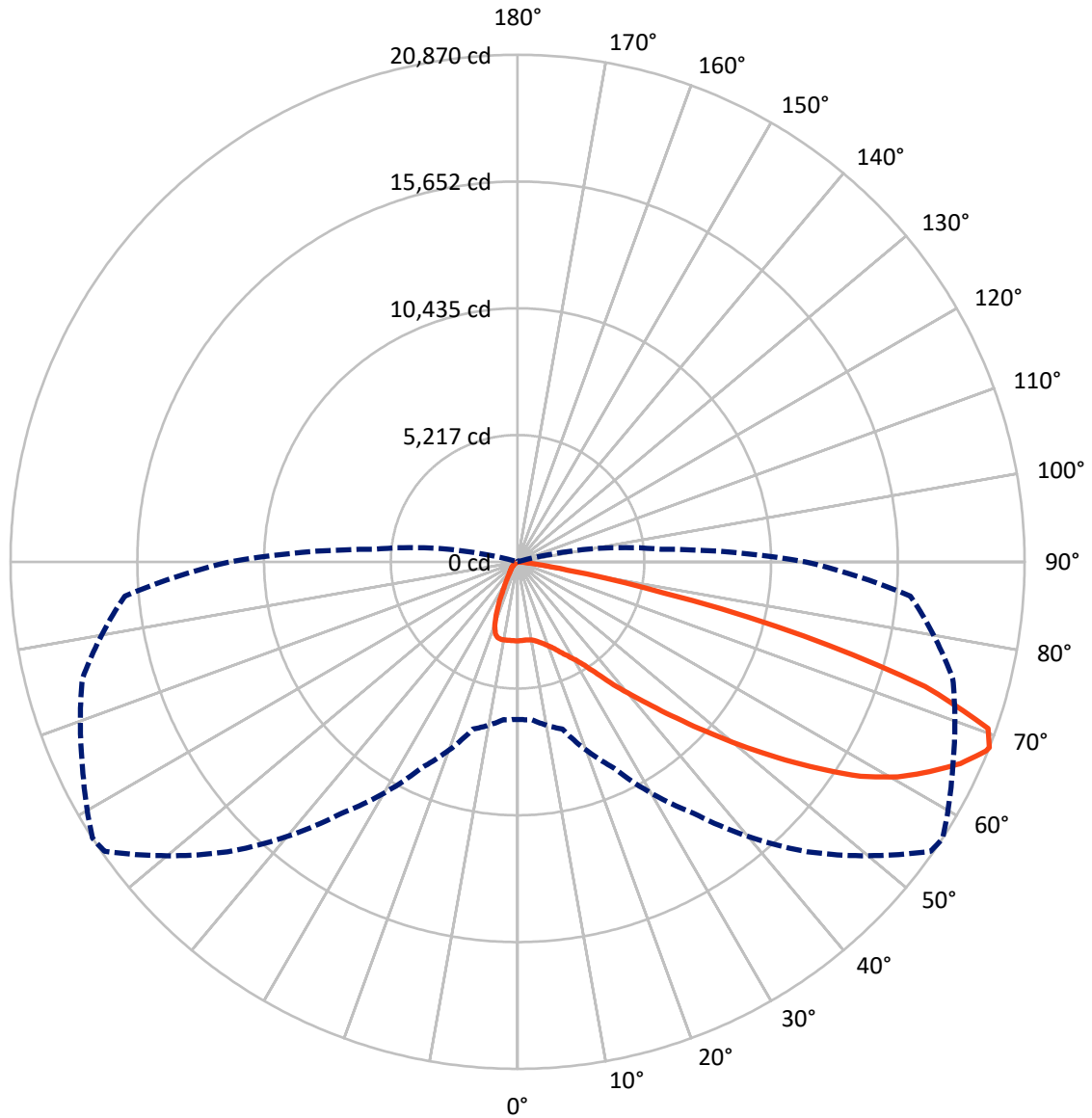
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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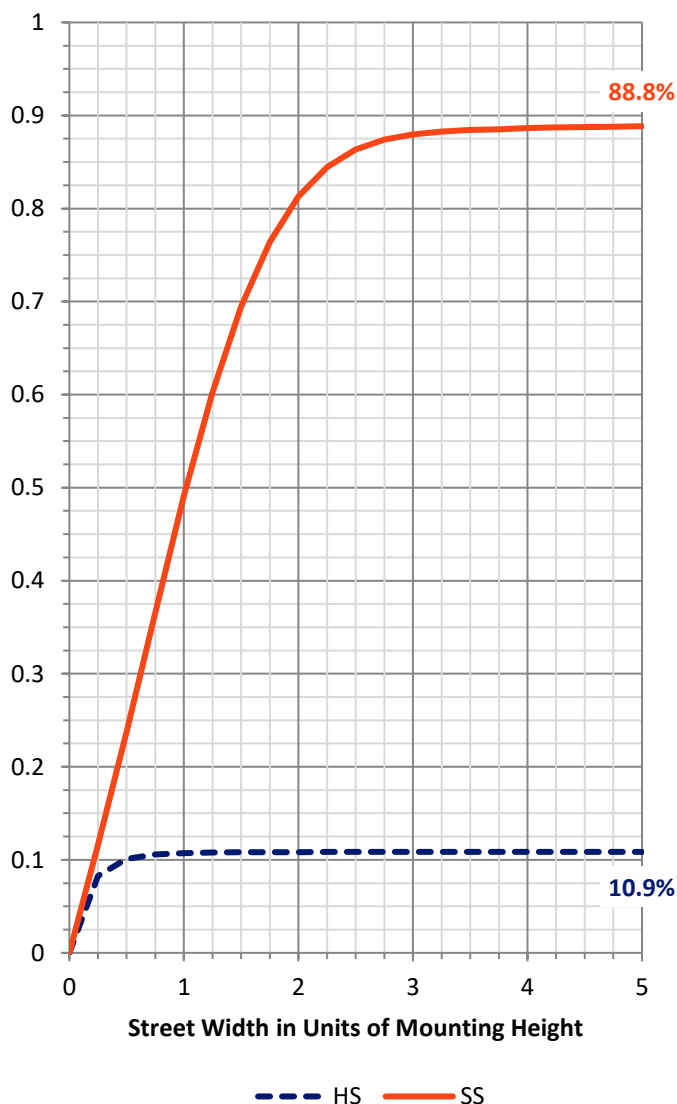
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3001.1	0.0	3001.1
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	24366.9	0.0	24366.9
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	27368.0	0.0	27368.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.3	1.1
10°-20°	843.4	3.1
20°-30°	1454.9	5.3
30°-40°	2511.0	9.2
40°-50°	4295.2	15.7
50°-60°	6871.9	25.1
60°-70°	7939.7	29.0
70°-80°	3033.9	11.1
80°-90°	113.7	0.4
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°	27368.0	100.0
0°-180°	27368.0	100.0

**Coefficient of Utilization**



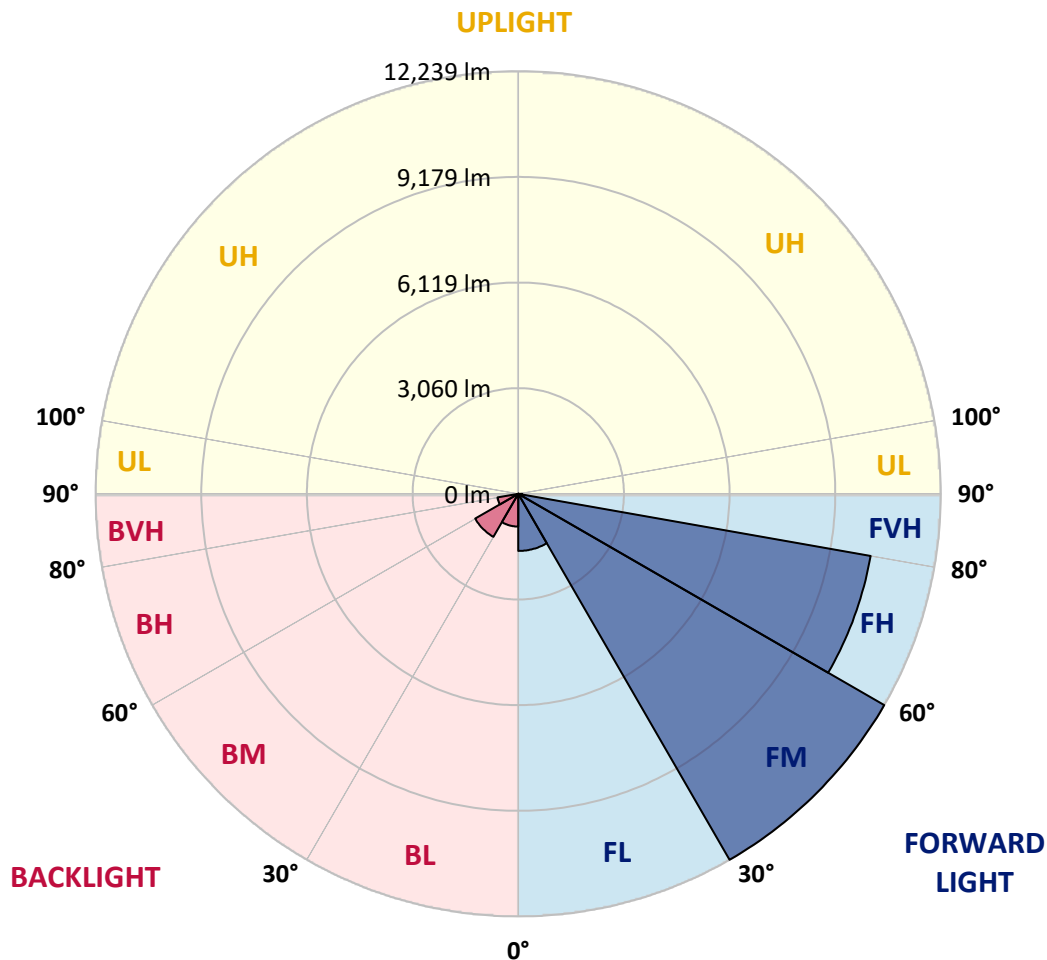
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.1	6.0			
FM (30°-60°)	12238.7	44.7			
FH (60°-80°)	10362.4	37.9			G4/12000
FVH (80°-90°)	111.7	0.4			G2/225
BL (0°-30°)	948.4	3.5	B2/1000		
BM (30°-60°)	1439.4	5.3	B2/2500		
BH (60°-80°)	611.2	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.1	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3252.0	3252.0	3252.0	3252.0	3252.0	3252.0	3252.0	3252.0	3252.0	3252.0	3252.0
2.5°	3175.7	3189.9	3200.3	3206.7	3214.5	3231.3	3236.5	3244.3	3248.2	3248.2	3257.2
5°	3050.2	3065.7	3087.7	3105.8	3142.0	3188.6	3222.3	3235.2	3258.5	3279.2	3290.9
7.5°	2933.7	2951.8	2977.7	3020.4	3082.5	3157.6	3227.5	3245.6	3290.9	3334.9	3356.9
10°	2858.6	2872.9	2906.5	2967.3	3048.9	3153.7	3252.0	3274.0	3351.7	3425.4	3466.9
12.5°	2832.8	2845.7	2880.6	2949.2	3050.2	3173.1	3309.0	3341.3	3455.2	3562.6	3620.9
15°	2870.3	2872.9	2910.4	2975.1	3074.8	3221.0	3403.4	3442.3	3585.9	3725.7	3798.1
17.5°	3015.2	3003.6	3023.0	3051.5	3130.4	3284.4	3503.1	3561.3	3752.9	3917.2	3985.8
20°	3377.6	3377.6	3333.6	3255.9	3257.2	3382.7	3637.7	3703.7	3937.9	4128.1	4190.3
22.5°	3997.4	3985.8	3897.8	3707.6	3532.9	3552.3	3802.0	3887.4	4160.5	4363.7	4384.4
25°	4742.8	4728.6	4592.7	4324.8	4022.0	3826.6	4024.6	4123.0	4425.8	4605.7	4562.9
27.5°	5532.2	5520.6	5386.0	5053.4	4622.5	4264.0	4289.9	4383.1	4696.2	4873.5	4737.7
30°	6297.0	6300.9	6167.6	5826.0	5338.1	4821.8	4626.4	4680.7	4958.9	5138.8	4944.7
32.5°	7024.3	7029.5	6914.3	6532.5	6077.0	5470.1	5092.2	5078.0	5264.3	5441.6	5219.1
35°	7672.6	7685.6	7606.6	7310.3	6827.6	6192.2	5696.6	5662.9	5697.9	5898.4	5639.6
37.5°	8297.7	8305.4	8245.9	7996.2	7592.4	6985.5	6460.1	6412.2	6337.1	6491.1	6194.8
40°	8982.3	8962.8	8894.3	8667.8	8321.0	7861.6	7280.5	7197.7	7067.0	7204.2	6924.7
42.5°	9618.9	9596.9	9608.6	9352.4	9059.9	8762.3	8236.9	8094.5	8018.2	8176.0	7820.2
45°	10414.8	10403.2	10442.0	10219.4	9982.6	9766.5	9333.0	9177.7	9144.0	9329.1	8903.3
47.5°	11200.3	11228.8	11349.1	11254.7	11158.9	10968.7	10493.7	10423.9	10444.6	10668.5	10046.0
50°	11855.1	11888.8	12218.8	12327.5	12465.9	12354.6	11878.4	11835.7	11917.2	12119.1	11275.4
52.5°	12328.8	12397.4	12807.6	13308.4	13813.1	13888.1	13413.2	13374.4	13484.4	13515.4	12225.2
55°	12657.5	12718.3	13182.9	14099.1	15126.6	15450.1	15155.0	15004.9	14984.2	14677.5	13224.3
57.5°	12715.7	12709.2	13377.0	14610.2	16156.7	16991.4	16805.0	16657.5	16233.0	15751.6	14369.5
60°	12387.0	12424.5	13199.7	14787.5	16803.7	18157.3	18171.6	17980.0	17318.8	16796.0	15479.9
62.5°	11375.0	11527.7	12310.6	14323.0	16796.0	18627.1	19173.2	19027.0	18236.3	17651.3	16605.7
65°	9734.1	9788.5	10535.2	12731.2	15661.0	18430.4	20075.2	20020.8	19063.2	18482.1	17184.2
67.5°	7108.4	6990.7	7774.9	10025.3	13259.2	17283.8	20722.2	20790.8	19701.2	18653.0	16568.2
68°	6487.3	6522.2	7133.0	9356.2	12630.3	16878.8	20764.9	20869.7	19764.6	18541.7	16231.7
70°	3866.7	3934.0	4478.8	6442.0	9608.6	14586.9	20304.2	20543.6	19386.7	17393.8	14039.5
72.5°	987.4	1067.6	1582.7	2883.2	5488.2	10277.6	17140.2	17545.2	16832.2	14110.7	9477.9
75°	406.3	427.0	565.5	949.9	2044.7	4630.2	11297.4	12164.4	11668.8	8447.8	4283.4
77.5°	280.8	295.1	363.6	526.7	885.2	1569.7	5538.7	6165.0	5554.2	2883.2	934.3
80°	201.9	213.5	260.1	350.7	508.6	560.3	1805.3	2087.4	1657.7	632.8	231.6
82.5°	120.4	129.4	194.1	249.8	309.3	267.9	449.0	509.9	480.1	314.5	103.5
85°	59.5	69.9	130.7	178.6	166.9	112.6	137.2	152.7	188.9	191.5	55.6
87.5°	3.9	7.8	76.4	107.4	46.6	25.9	40.1	49.2	67.3	94.5	23.3
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°	3252.0	3252.0	3252.0	3252.0	3252.0	3252.0	3252.0	3252.0	3252.0	3252.0	3252.0
2.5°	3261.1	3262.4	3253.3	3249.5	3252.0	3236.5	3230.0	3232.6	3232.6	3236.5	3230.0
5°	3293.5	3293.5	3277.9	3257.2	3245.6	3215.8	3196.4	3191.2	3187.3	3184.7	3179.6
7.5°	3363.3	3355.6	3328.4	3283.1	3244.3	3179.6	3130.4	3104.5	3091.6	3086.4	3082.5
10°	3475.9	3461.7	3416.4	3332.3	3243.0	3127.8	3020.4	2944.0	2880.6	2854.8	2839.2
12.5°	3627.3	3606.6	3530.3	3390.5	3233.9	3021.7	2788.8	2564.9	2356.5	2271.1	2228.4
15°	3802.0	3772.3	3651.9	3439.7	3180.9	2782.3	2276.3	1884.2	1595.6	1486.9	1440.3
17.5°	3979.3	3940.5	3758.0	3470.7	3021.7	2286.7	1596.9	1206.1	1013.3	961.5	943.4
20°	4157.9	4101.0	3849.9	3447.4	2661.9	1648.7	1053.4	881.3	825.6	810.1	804.9
22.5°	4327.4	4239.4	3932.7	3356.9	2108.1	1106.4	833.4	779.0	760.9	751.9	749.3
25°	4475.0	4352.0	4005.2	3077.3	1492.1	836.0	750.6	732.5	709.2	692.3	693.6
27.5°	4613.4	4464.6	4049.2	2616.6	995.2	714.3	694.9	670.3	627.6	603.0	603.0
30°	4780.4	4614.7	4081.5	2013.6	732.5	631.5	616.0	578.5	520.2	487.9	487.9
32.5°	5031.4	4842.5	4060.8	1413.1	606.9	555.2	518.9	467.2	403.8	372.7	371.4
35°	5415.8	5194.5	3913.3	926.6	535.8	482.7	424.5	361.1	305.4	279.5	278.2
37.5°	5933.4	5665.5	3582.0	662.6	480.1	415.4	345.5	275.6	234.2	217.4	216.1
40°	6605.0	6212.9	3108.4	537.0	428.3	350.7	266.6	213.5	185.1	172.1	173.4
42.5°	7411.2	6799.1	2540.3	463.3	377.9	288.6	208.3	168.2	150.1	141.1	138.5
45°	8306.7	7377.6	1945.0	412.8	327.4	232.9	163.1	133.3	119.1	113.9	113.9
47.5°	9291.5	7940.5	1423.5	368.8	273.1	179.9	130.7	108.7	97.1	93.2	91.9
50°	10185.8	8331.3	1026.2	322.2	223.9	142.3	106.1	90.6	82.8	77.6	77.6
52.5°	10931.2	8454.3	755.7	271.8	181.2	113.9	88.0	77.6	69.9	66.0	66.0
55°	11587.3	8403.8	561.6	223.9	146.2	93.2	75.1	66.0	59.5	55.6	55.6
57.5°	12216.2	8240.7	419.3	182.5	117.8	75.1	63.4	55.6	49.2	46.6	46.6
60°	12729.9	7969.0	311.9	147.5	94.5	60.8	53.1	45.3	40.1	36.2	36.2
62.5°	13146.6	7668.8	229.1	121.6	75.1	47.9	41.4	37.5	29.8	25.9	25.9
65°	13149.2	7170.5	172.1	100.9	58.2	37.5	31.1	29.8	19.4	15.5	14.2
67.5°	12198.1	6181.9	132.0	86.7	45.3	28.5	23.3	24.6	10.4	6.5	5.2
68°	11852.5	5930.8	124.2	85.4	42.7	27.2	22.0	24.6	9.1	5.2	3.9
70°	9992.9	4718.2	99.6	82.8	37.5	20.7	18.1	24.6	7.8	3.9	2.6
72.5°	6391.5	2738.3	73.8	66.0	28.5	15.5	11.6	22.0	7.8	2.6	1.3
75°	2720.2	848.9	50.5	46.6	16.8	11.6	7.8	14.2	5.2	1.3	0.0
77.5°	573.3	191.5	29.8	28.5	11.6	7.8	5.2	3.9	1.3	0.0	0.0
80°	147.5	55.6	15.5	14.2	6.5	3.9	2.6	0.0	0.0	0.0	0.0
82.5°	46.6	22.0	9.1	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.3	12.9	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	3.9	1.3	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)