

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: P383206

Luminaire Tested: **GLEON-SA5B-735-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383206  
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-SA5B-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 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: 19389.3 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

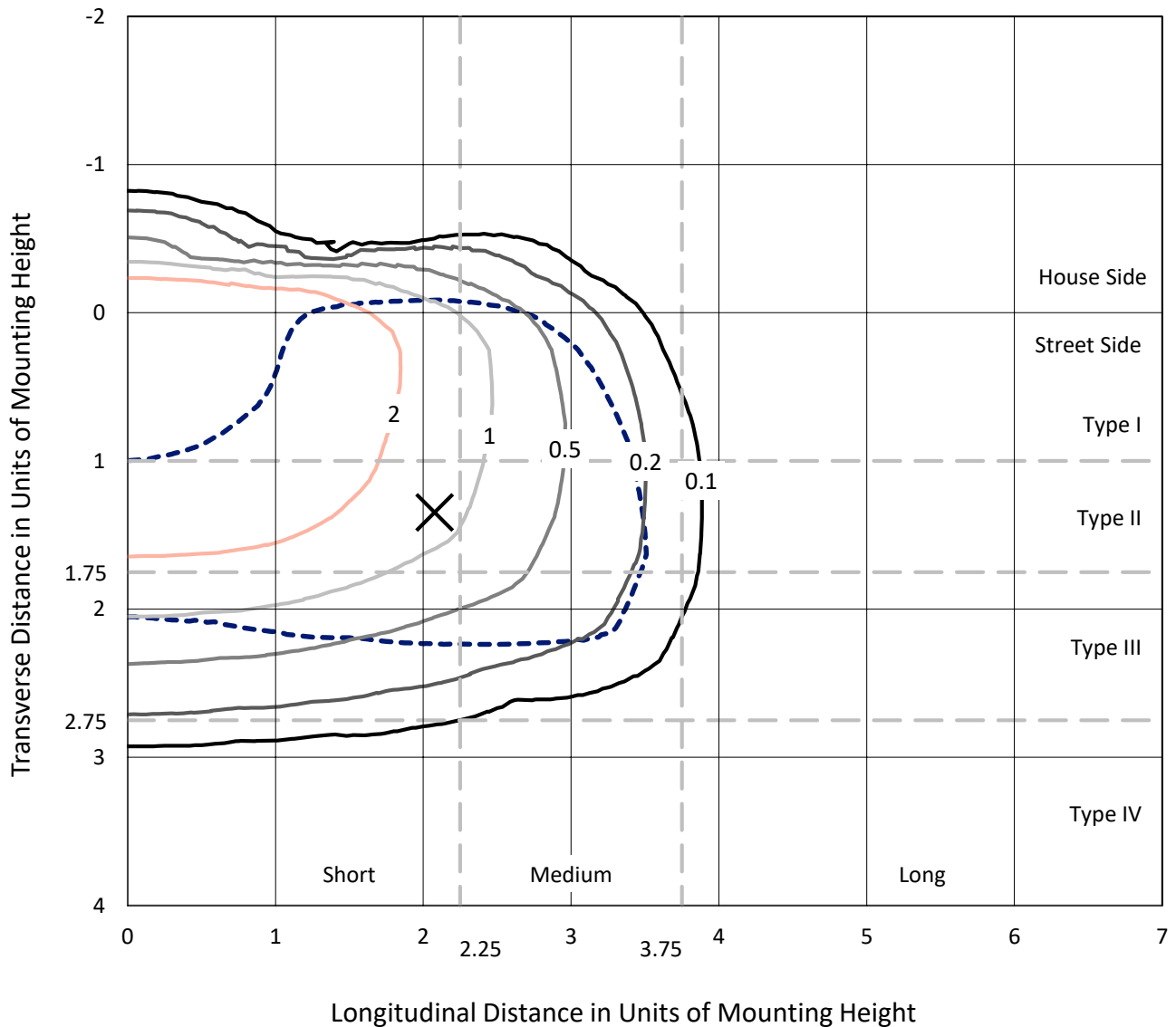
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

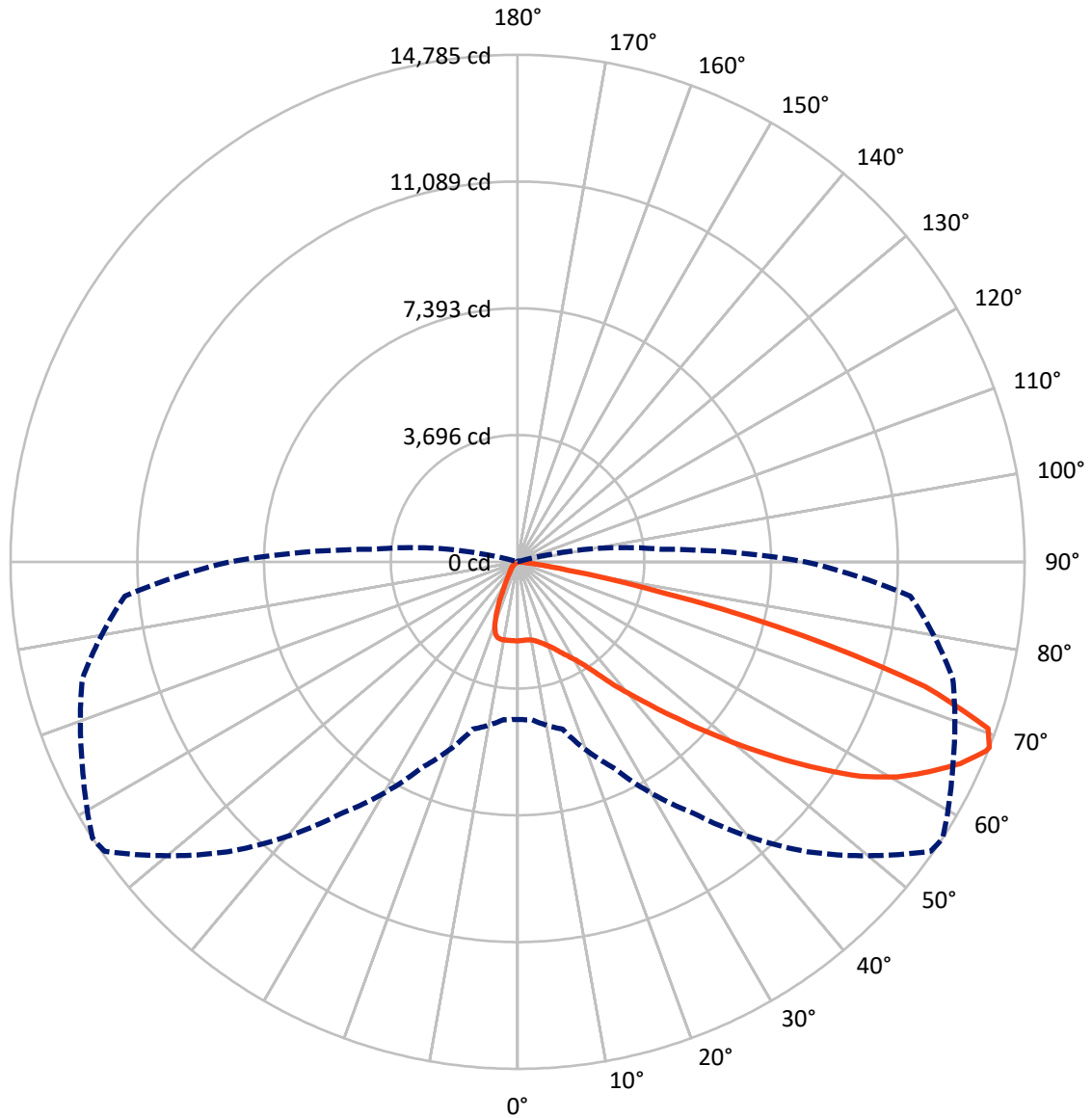
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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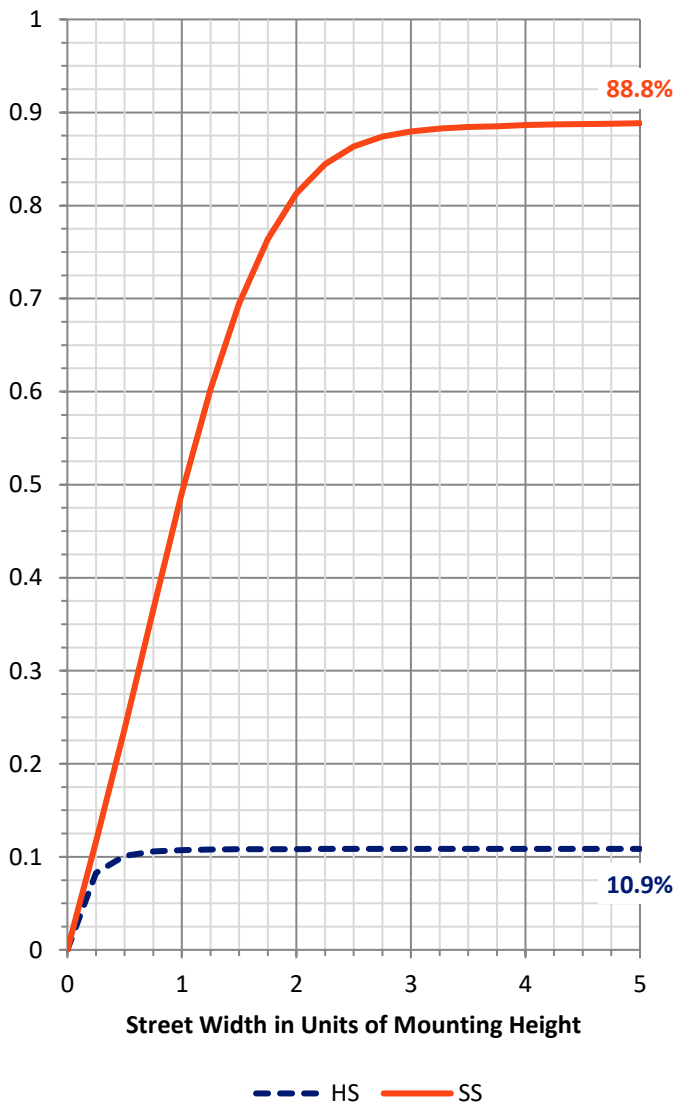
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2126.2	0.0	2126.2
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	17263.1	0.0	17263.1
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	19389.3	0.0	19389.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.6	1.1
10°-20°	597.5	3.1
20°-30°	1030.7	5.3
30°-40°	1779.0	9.2
40°-50°	3043.0	15.7
50°-60°	4868.5	25.1
60°-70°	5625.0	29.0
70°-80°	2149.4	11.1
80°-90°	80.6	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°	19389.3	100.0
0°-180°	19389.3	100.0

**Coefficient of Utilization**



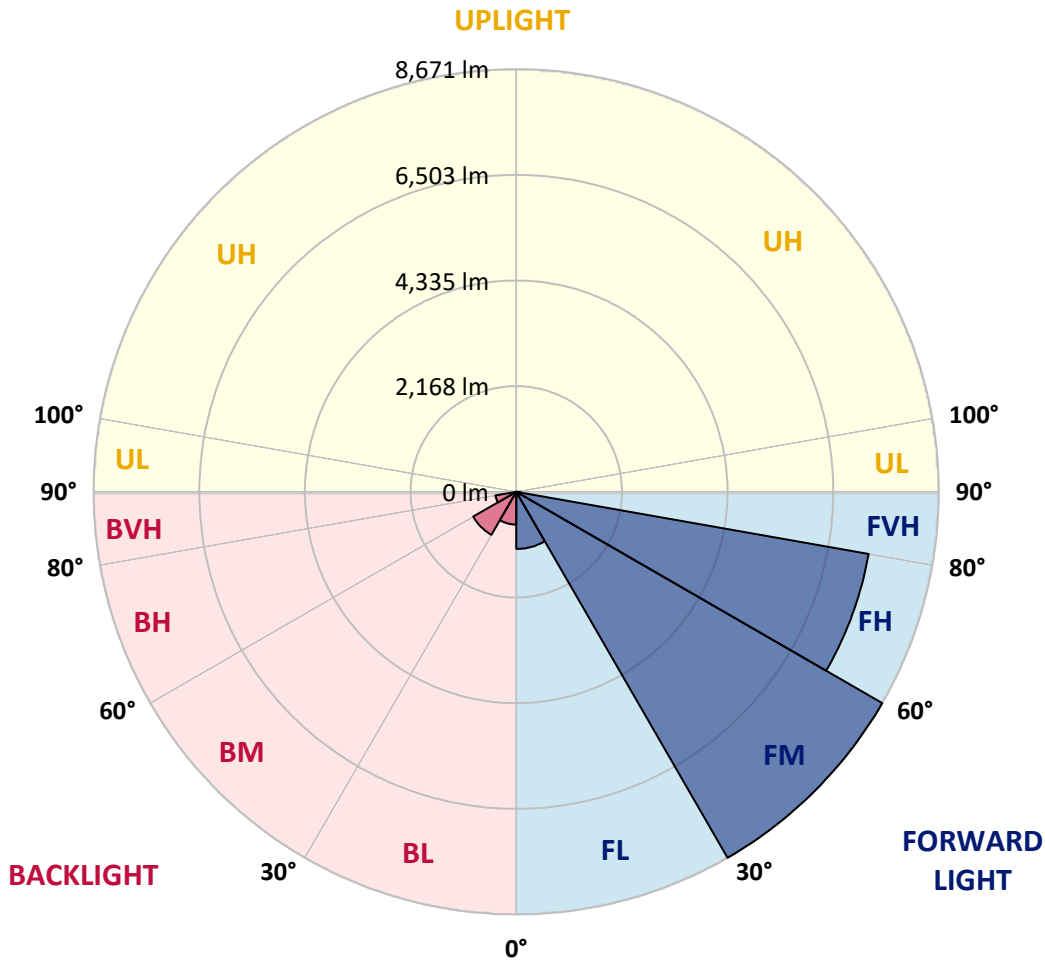
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1171.9	6.0			
FM (30°-60°)	8670.7	44.7			
FH (60°-80°)	7341.4	37.9			G3/7500
FVH (80°-90°)	79.1	0.4			G1/100
BL (0°-30°)	671.9	3.5	B2/1000		
BM (30°-60°)	1019.8	5.3	B2/2500		
BH (60°-80°)	433.0	2.2	B1/500		G1/500
BVH (80°-90°)	1.5	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2304.0	2304.0	2304.0	2304.0	2304.0	2304.0	2304.0	2304.0	2304.0	2304.0	2304.0
2.5°	2249.9	2259.9	2267.3	2271.9	2277.4	2289.3	2292.9	2298.4	2301.2	2301.2	2307.6
5°	2160.9	2171.9	2187.6	2200.3	2226.0	2259.0	2282.9	2292.1	2308.6	2323.2	2331.5
7.5°	2078.4	2091.2	2109.6	2139.9	2183.8	2237.0	2286.6	2299.3	2331.5	2362.6	2378.2
10°	2025.3	2035.3	2059.2	2102.2	2160.0	2234.3	2304.0	2319.6	2374.5	2426.8	2456.1
12.5°	2006.9	2016.1	2040.8	2089.5	2160.9	2248.0	2344.3	2367.2	2447.9	2524.0	2565.2
15°	2033.5	2035.3	2061.9	2107.7	2178.3	2281.9	2411.2	2438.7	2540.5	2639.5	2690.9
17.5°	2136.1	2127.9	2141.7	2161.8	2217.7	2326.9	2481.8	2523.1	2658.7	2775.2	2823.8
20°	2392.9	2392.9	2361.8	2306.7	2307.6	2396.6	2577.1	2623.9	2789.9	2924.6	2968.7
22.5°	2832.0	2823.8	2761.5	2626.7	2502.9	2516.7	2693.6	2754.1	2947.5	3091.5	3106.2
25°	3360.1	3350.0	3253.8	3064.0	2849.4	2711.0	2851.3	2921.0	3135.5	3262.9	3232.7
27.5°	3919.4	3911.1	3815.8	3580.1	3274.9	3020.9	3039.3	3105.2	3327.1	3452.7	3356.5
30°	4461.2	4464.0	4369.5	4127.5	3781.9	3416.1	3277.7	3316.1	3513.2	3640.7	3503.2
32.5°	4976.4	4980.1	4898.5	4628.1	4305.3	3875.3	3607.7	3597.5	3729.6	3855.2	3697.5
35°	5435.8	5445.0	5389.0	5179.0	4837.1	4386.9	4035.8	4012.0	4036.8	4178.8	3995.5
37.5°	5878.6	5884.1	5841.9	5665.0	5378.9	4948.9	4576.7	4542.8	4489.6	4598.8	4388.8
40°	6363.6	6349.9	6301.3	6140.9	5895.1	5569.6	5158.0	5099.3	5006.7	5103.9	4905.9
42.5°	6814.6	6799.1	6807.4	6625.8	6418.6	6207.7	5835.5	5734.7	5680.6	5792.5	5540.3
45°	7378.5	7370.2	7397.8	7240.1	7072.3	6919.2	6612.0	6502.0	6478.2	6609.3	6307.7
47.5°	7935.0	7955.2	8040.5	7973.5	7905.7	7770.9	7434.4	7384.9	7399.6	7558.2	7117.2
50°	8398.9	8422.8	8656.6	8733.5	8831.6	8752.8	8415.4	8385.1	8442.9	8586.0	7988.2
52.5°	8734.5	8783.1	9073.7	9428.5	9786.1	9839.3	9502.8	9475.2	9553.2	9575.2	8661.2
55°	8967.4	9010.5	9339.6	9988.7	10716.6	10945.9	10736.8	10630.4	10615.8	10398.5	9368.9
57.5°	9008.6	9004.1	9477.1	10350.8	11446.4	12037.7	11905.7	11801.2	11500.5	11159.5	10180.3
60°	8775.7	8802.3	9351.5	10476.5	11904.8	12863.8	12873.9	12738.2	12269.7	11899.3	10966.9
62.5°	8058.8	8167.0	8721.6	10147.3	11899.3	13196.6	13583.5	13479.9	12919.7	12505.4	11764.5
65°	6896.2	6934.8	7463.7	9019.6	11095.3	13057.2	14222.5	14184.0	13505.6	13093.9	12174.4
67.5°	5036.0	4952.7	5508.2	7102.6	9393.6	12244.9	14680.9	14729.5	13957.6	13214.9	11738.0
68°	4596.0	4620.8	5053.5	6628.5	8948.1	11958.0	14711.2	14785.4	14002.5	13136.1	11499.6
70°	2739.4	2787.1	3173.1	4563.9	6807.4	10334.3	14384.8	14554.4	13734.7	12322.9	9946.5
72.5°	699.5	756.4	1121.3	2042.7	3888.2	7281.3	12143.2	12430.2	11925.0	9996.9	6714.8
75°	287.8	302.6	400.7	672.9	1448.6	3280.4	8003.8	8618.0	8266.9	5984.9	3034.6
77.5°	199.0	209.0	257.7	373.2	627.1	1112.1	3924.0	4367.7	3935.0	2042.7	662.0
80°	143.0	151.3	184.3	248.4	360.3	397.0	1278.9	1478.8	1174.4	448.4	164.1
82.5°	85.2	91.7	137.5	176.9	219.1	189.8	318.1	361.3	340.1	222.8	73.3
85°	42.2	49.5	92.6	126.5	118.3	79.7	97.2	108.2	133.9	135.7	39.4
87.5°	2.8	5.5	54.1	76.1	33.0	18.4	28.4	34.8	47.7	66.9	16.5
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°	2304.0	2304.0	2304.0	2304.0	2304.0	2304.0	2304.0	2304.0	2304.0	2304.0	2304.0
2.5°	2310.3	2311.3	2304.8	2302.1	2304.0	2292.9	2288.3	2290.2	2290.2	2292.9	2288.3
5°	2333.2	2333.2	2322.3	2307.6	2299.3	2278.3	2264.5	2260.9	2258.1	2256.3	2252.6
7.5°	2382.8	2377.3	2358.0	2326.0	2298.4	2252.6	2217.7	2199.5	2190.3	2186.6	2183.8
10°	2462.5	2452.5	2420.3	2360.8	2297.6	2216.0	2139.9	2085.7	2040.8	2022.5	2011.5
12.5°	2569.9	2555.1	2501.1	2402.1	2291.1	2140.8	1975.7	1817.2	1669.5	1609.0	1578.8
15°	2693.6	2672.5	2587.3	2436.9	2253.5	1971.2	1612.7	1334.9	1130.4	1053.4	1020.4
17.5°	2819.2	2791.7	2662.5	2458.9	2140.8	1620.1	1131.4	854.5	717.9	681.1	668.4
20°	2945.7	2905.4	2727.5	2442.4	1885.9	1168.0	746.3	624.3	584.9	573.9	570.3
22.5°	3065.8	3003.5	2786.2	2378.2	1493.5	783.9	590.4	551.9	539.1	532.7	530.8
25°	3170.3	3083.2	2837.5	2180.2	1057.1	592.3	531.7	518.9	502.4	490.5	491.4
27.5°	3268.4	3163.0	2868.7	1853.8	705.0	506.1	492.3	474.9	444.6	427.2	427.2
30°	3386.7	3269.4	2891.6	1426.6	518.9	447.4	436.4	409.8	368.5	345.6	345.6
32.5°	3564.6	3430.7	2877.0	1001.1	430.0	393.3	367.7	331.0	286.1	264.0	263.2
35°	3836.9	3680.1	2772.5	656.5	379.6	342.0	300.7	255.8	216.4	198.0	197.1
37.5°	4203.6	4013.9	2537.7	469.4	340.1	294.3	244.8	195.3	165.9	154.0	153.1
40°	4679.4	4401.7	2202.2	380.4	303.5	248.4	188.8	151.3	131.1	121.9	122.9
42.5°	5250.6	4816.9	1799.7	328.2	267.7	204.5	147.7	119.1	106.4	100.0	98.1
45°	5885.1	5226.7	1377.9	292.5	232.0	165.1	115.5	94.5	84.3	80.7	80.7
47.5°	6582.7	5625.5	1008.5	261.3	193.5	127.4	92.6	77.0	68.7	66.0	65.1
50°	7216.2	5902.5	727.1	228.3	158.6	100.9	75.2	64.2	58.7	55.1	55.1
52.5°	7744.3	5989.6	535.5	192.6	128.4	80.7	62.3	55.1	49.5	46.8	46.8
55°	8209.2	5953.8	397.9	158.6	103.6	66.0	53.2	46.8	42.2	39.4	39.4
57.5°	8654.7	5838.3	297.1	129.3	83.5	53.2	44.9	39.4	34.8	33.0	33.0
60°	9018.7	5645.7	221.0	104.5	66.9	43.1	37.6	32.0	28.4	25.7	25.7
62.5°	9313.9	5433.1	162.3	86.2	53.2	33.9	29.3	26.5	21.1	18.4	18.4
65°	9315.8	5080.1	121.9	71.5	41.3	26.5	22.0	21.1	13.8	11.0	10.1
67.5°	8641.9	4379.6	93.5	61.4	32.0	20.2	16.5	17.4	7.4	4.6	3.6
68°	8397.1	4201.7	88.0	60.6	30.3	19.3	15.6	17.4	6.4	3.6	2.8
70°	7079.7	3342.7	70.6	58.7	26.5	14.6	12.9	17.4	5.5	2.8	1.9
72.5°	4528.2	1939.9	52.3	46.8	20.2	11.0	8.3	15.6	5.5	1.9	0.9
75°	1927.2	601.4	35.8	33.0	11.9	8.3	5.5	10.1	3.6	0.9	0.0
77.5°	406.2	135.7	21.1	20.2	8.3	5.5	3.6	2.8	0.9	0.0	0.0
80°	104.5	39.4	11.0	10.1	4.6	2.8	1.9	0.0	0.0	0.0	0.0
82.5°	33.0	15.6	6.4	4.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.5	9.1	3.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	2.8	0.9	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)