

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: P648266

Luminaire Tested: **GALN-SA2B-835-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648266  
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-SA2B-835-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA 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: 8880.8 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

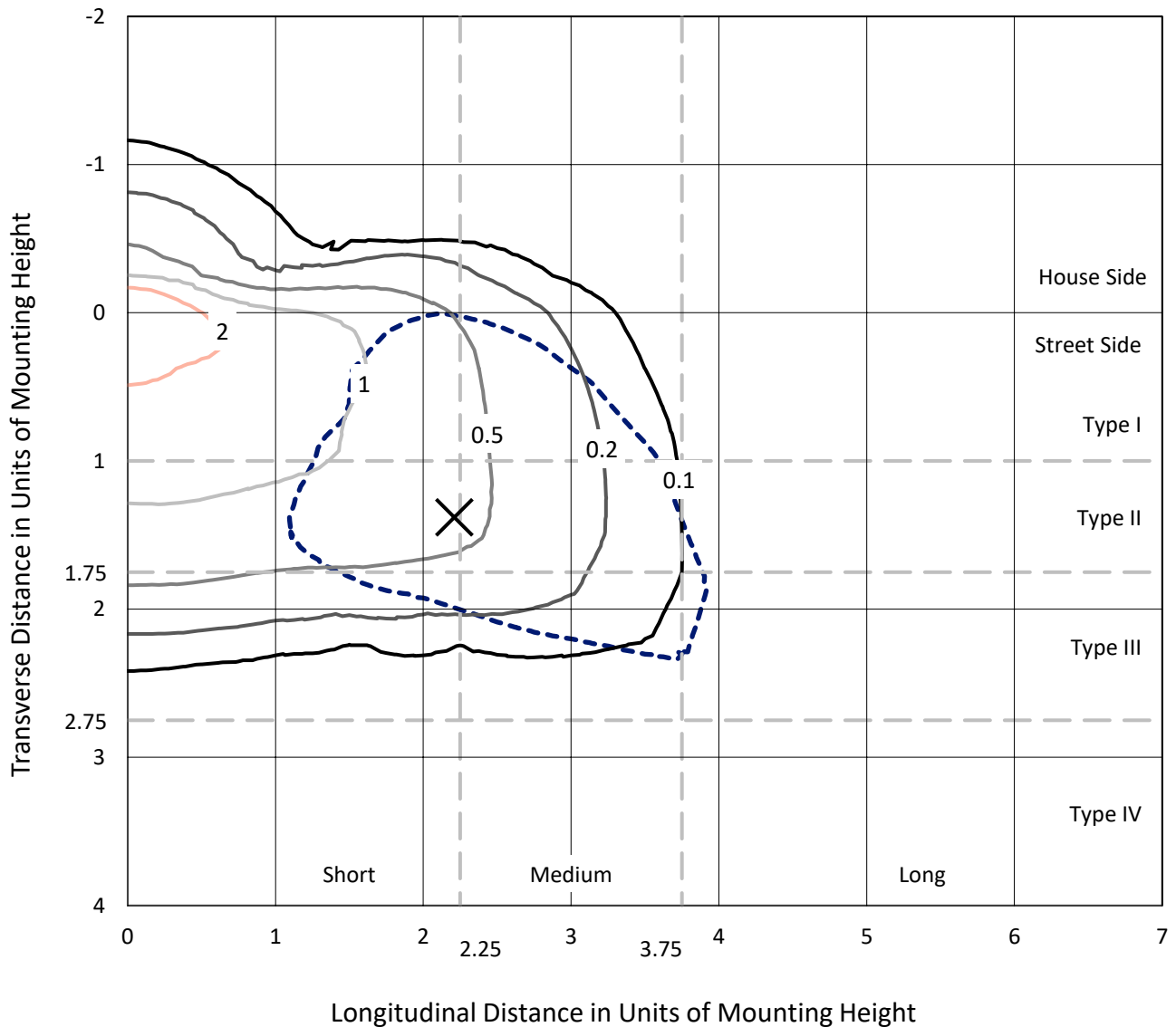
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648266  
 CATALOG NUMBER: GALN-SA2B-835-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

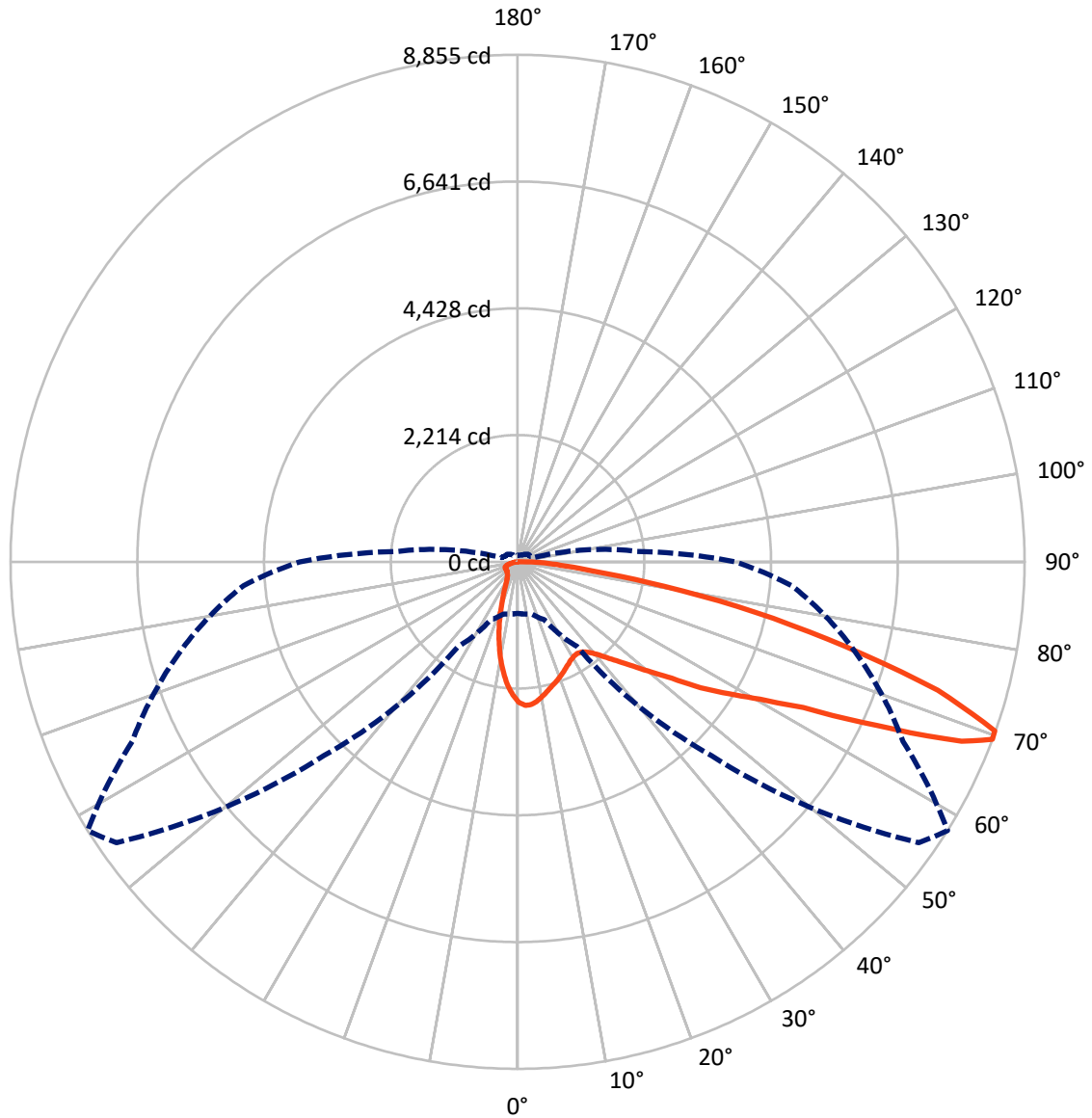
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P648266  
CATALOG NUMBER: GALN-SA2B-835-U-SL3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P648266  
 CATALOG NUMBER: GALN-SA2B-835-U-SL3

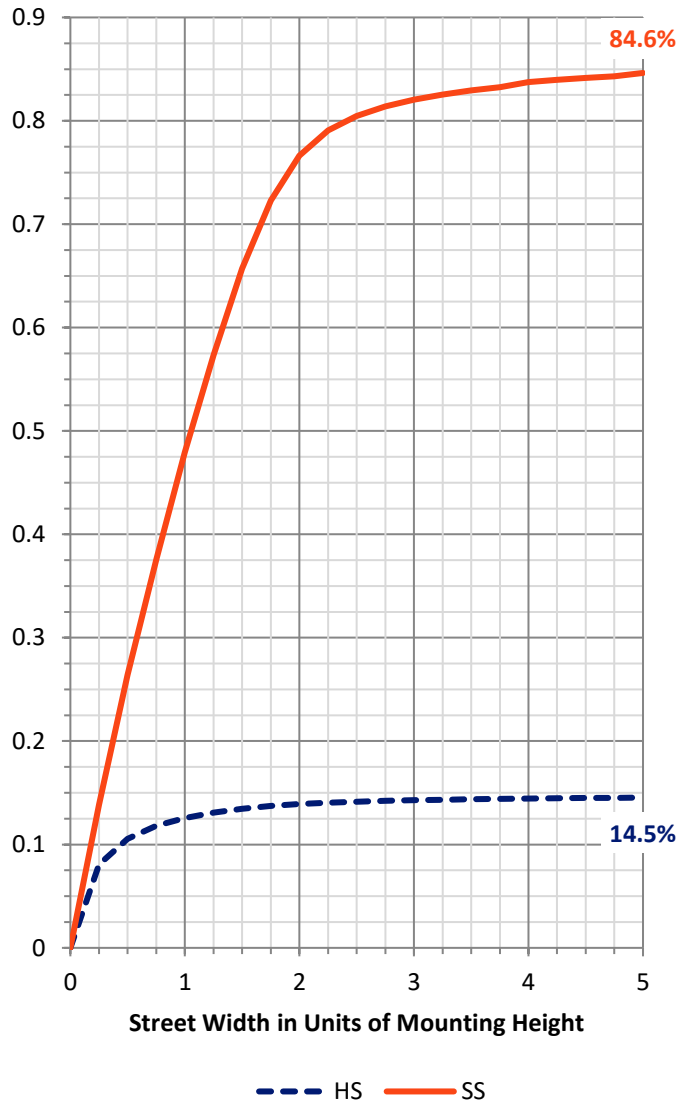
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1301.5	0.0	1301.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	7579.3	0.0	7579.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	8880.8	0.0	8880.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.4	2.3
10°-20°	457.6	5.2
20°-30°	591.3	6.7
30°-40°	768.0	8.6
40°-50°	1116.5	12.6
50°-60°	1781.6	20.1
60°-70°	2380.0	26.8
70°-80°	1372.0	15.4
80°-90°	205.5	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°	8880.8	100.0
0°-180°	8880.8	100.0

**Coefficient of Utilization**

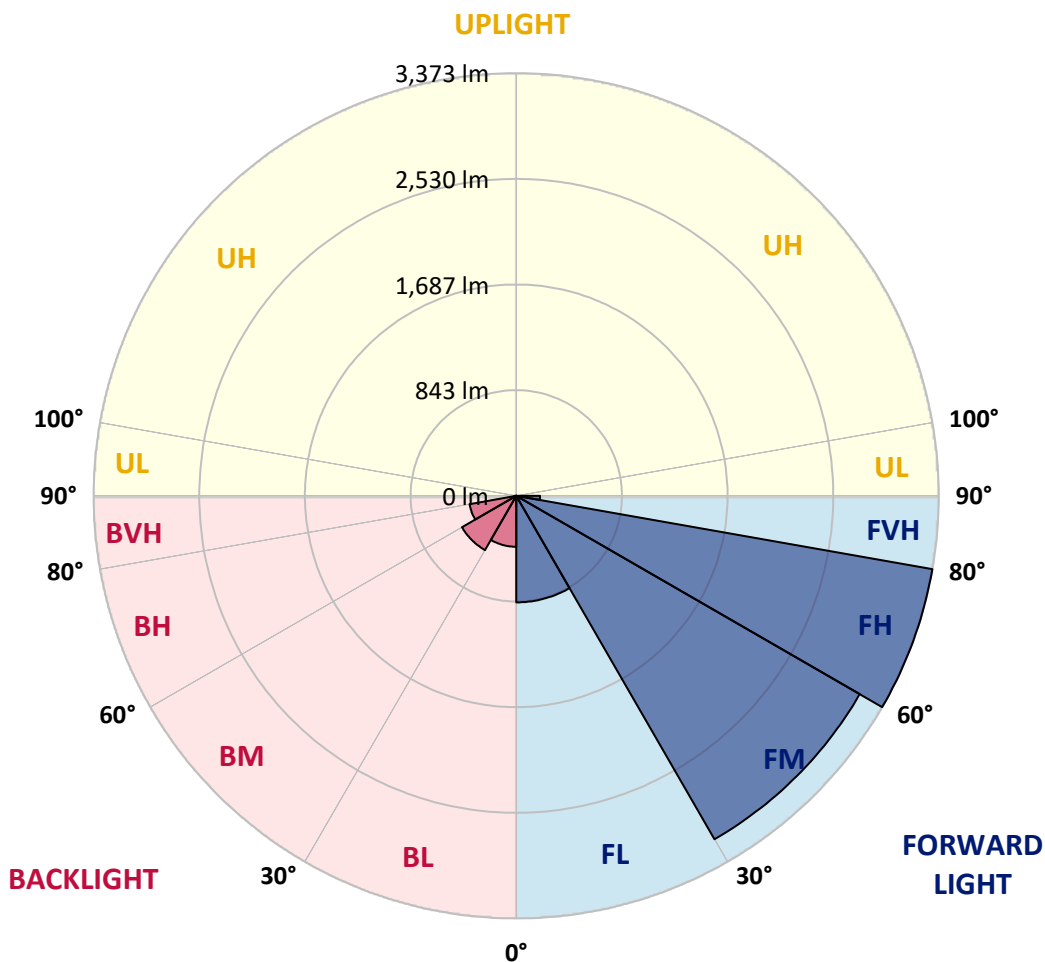


REPORT NUMBER: P648266  
 CATALOG NUMBER: GALN-SA2B-835-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.6	9.6			
FM (30°-60°)	3165.5	35.6			
FH (60°-80°)	3373.5	38.0			G2/5000
FVH (80°-90°)	189.7	2.1			G2/225
BL (0°-30°)	406.8	4.6	B1/500		
BM (30°-60°)	500.5	5.6	B1/1000		
BH (60°-80°)	378.4	4.3	B1/500		G1/500
BVH (80°-90°)	15.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Short





REPORT NUMBER: P648266

CATALOG NUMBER: GALN-SA2B-835-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2
2.5°	2545.3	2552.2	2550.2	2547.7	2543.8	2532.8	2515.1	2512.1	2500.7	2476.4	2446.2
5°	2506.1	2512.1	2512.6	2516.0	2521.0	2519.0	2506.1	2504.7	2487.8	2455.1	2404.6
7.5°	2371.9	2379.9	2397.2	2416.5	2433.8	2450.2	2454.2	2456.6	2446.2	2408.6	2341.2
10°	2220.8	2228.8	2236.7	2265.5	2308.0	2348.6	2382.3	2386.7	2389.2	2354.6	2272.3
12.5°	2053.4	2069.8	2086.6	2129.2	2186.2	2250.1	2309.5	2318.9	2335.8	2309.5	2212.9
15°	1911.3	1928.1	1952.4	1990.5	2059.4	2151.5	2235.2	2250.6	2283.8	2270.4	2157.5
17.5°	1812.7	1818.7	1835.5	1879.1	1953.4	2050.4	2162.4	2193.1	2246.1	2242.7	2109.9
20°	1735.0	1742.4	1752.8	1779.5	1856.8	1959.4	2094.5	2134.1	2206.0	2217.8	2062.9
22.5°	1702.3	1707.7	1706.2	1720.6	1773.1	1876.1	2025.7	2072.8	2170.3	2201.0	2019.3
25°	1704.3	1709.2	1701.8	1698.3	1729.6	1802.9	1953.9	2013.8	2141.6	2189.7	1979.7
27.5°	1737.5	1740.9	1727.1	1713.2	1715.6	1757.3	1894.5	1960.8	2117.3	2194.6	1946.5
30°	1782.0	1788.5	1779.5	1762.7	1744.4	1746.4	1856.3	1921.7	2106.0	2211.9	1930.6
32.5°	1839.5	1845.5	1841.5	1828.1	1804.3	1778.0	1846.9	1907.3	2107.0	2247.1	1927.1
35°	1899.9	1911.8	1918.3	1917.3	1897.9	1852.3	1884.1	1934.1	2130.7	2306.0	1947.5
37.5°	1968.2	1978.2	2005.9	2023.7	2005.9	1952.9	1967.8	2002.4	2183.2	2391.2	1992.0
40°	2034.6	2049.5	2090.1	2145.6	2138.6	2092.1	2095.5	2118.3	2275.8	2518.0	2079.2
42.5°	2104.0	2121.8	2192.6	2274.8	2291.2	2255.0	2264.4	2284.7	2407.6	2693.8	2228.8
45°	2193.1	2214.4	2301.6	2404.1	2468.5	2446.2	2472.9	2482.9	2583.9	2922.7	2425.9
47.5°	2308.0	2332.8	2440.3	2568.1	2659.1	2679.5	2726.0	2720.1	2802.3	3193.6	2681.5
50°	2501.7	2515.5	2617.1	2747.3	2872.7	2964.3	3014.8	3024.2	3073.2	3457.1	2967.3
52.5°	2732.0	2744.3	2817.7	2931.6	3088.6	3282.7	3407.5	3376.8	3388.7	3778.1	3301.6
55°	2991.0	3011.8	3058.4	3134.2	3337.7	3623.5	3874.1	3881.6	3749.8	4085.1	3622.0
57.5°	3191.6	3226.7	3306.5	3414.5	3672.5	4002.4	4339.2	4344.2	4175.7	4413.0	3975.6
60°	3090.6	3132.2	3314.4	3577.4	4111.8	4663.6	4894.9	4866.7	4590.3	4786.4	4407.0
62.5°	2654.7	2662.1	2927.1	3338.2	4247.1	5548.2	5722.0	5602.7	5143.5	5259.9	4845.4
65°	1718.1	1766.7	1976.7	2552.7	3802.8	6039.0	7171.2	6895.3	5919.2	5797.3	5212.4
67.5°	1084.7	1072.3	1159.5	1457.6	2615.6	5606.6	8407.9	8364.3	6933.5	6136.5	5124.7
69°	899.4	913.3	943.0	1117.3	1799.9	4786.9	8554.0	8855.2	7425.3	6109.8	4806.2
70°	815.7	822.2	853.4	990.6	1388.8	4009.4	8314.3	8841.8	7618.4	5997.9	4575.5
72.5°	647.3	646.8	700.3	824.2	1038.1	2288.7	6827.0	7676.4	7402.5	5476.9	3780.5
75°	491.8	499.7	558.7	697.3	956.4	1250.6	4764.2	5911.7	5912.2	4325.8	2359.0
77.5°	354.6	359.6	428.5	585.4	900.9	1013.8	3173.3	4240.1	3986.0	1982.1	741.4
80°	232.3	235.3	287.8	463.6	812.3	956.4	1881.5	2595.3	1880.1	526.0	245.2
82.5°	127.3	142.1	175.9	300.1	651.8	883.6	1143.6	1313.5	705.2	234.3	127.8
85°	63.9	67.9	99.0	175.3	426.0	731.0	796.4	753.3	364.0	116.4	66.4
87.5°	18.8	23.8	41.1	67.9	172.9	380.9	443.3	397.7	140.2	42.1	13.9
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: P648266  
 CATALOG NUMBER: GALN-SA2B-835-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2
2.5°	2433.8	2424.9	2385.3	2349.6	2316.9	2282.3	2253.1	2227.3	2229.7	2230.3	2204.0
5°	2378.4	2358.1	2282.8	2212.4	2153.0	2077.7	2013.3	1971.8	1950.9	1923.2	1933.1
7.5°	2303.0	2264.0	2159.4	2042.5	1933.1	1835.5	1729.6	1656.7	1610.2	1565.1	1571.0
10°	2225.3	2162.4	2010.4	1855.8	1714.1	1558.2	1422.9	1307.1	1220.9	1188.7	1167.4
12.5°	2145.6	2062.9	1869.7	1664.2	1468.5	1281.8	1090.1	965.8	870.7	820.2	826.6
15°	2072.8	1972.2	1723.1	1472.5	1218.4	996.0	804.8	686.5	620.1	606.2	614.2
17.5°	2005.4	1873.6	1585.9	1286.2	989.6	746.9	604.7	537.8	511.1	503.7	503.2
20°	1936.0	1789.9	1431.9	1087.1	771.2	579.0	496.3	465.1	460.1	463.1	463.6
22.5°	1865.7	1686.4	1273.4	889.6	614.2	473.5	433.9	425.5	429.4	436.4	437.3
25°	1800.8	1595.3	1120.9	716.2	490.3	416.0	396.7	396.7	405.7	416.0	416.6
27.5°	1747.3	1507.1	968.8	568.6	410.6	374.4	368.0	371.5	383.8	391.7	392.3
30°	1703.3	1424.9	825.1	455.6	361.0	341.2	339.7	345.7	354.6	362.1	362.5
32.5°	1670.1	1352.6	690.9	382.9	326.9	316.0	315.5	319.9	324.9	326.9	328.9
35°	1657.2	1292.7	568.1	336.8	304.1	297.1	297.1	296.7	298.6	299.7	300.7
37.5°	1667.6	1246.6	473.0	307.1	287.3	282.3	279.4	276.4	275.4	275.4	275.9
40°	1711.7	1222.3	402.1	287.8	275.4	267.9	262.5	259.0	255.6	256.6	257.5
42.5°	1805.3	1226.8	354.2	274.9	265.0	254.6	246.6	242.7	240.2	243.2	242.7
45°	1954.4	1271.4	323.5	266.0	254.6	241.2	233.8	229.8	229.8	234.3	235.8
47.5°	2162.9	1356.5	307.1	259.0	246.6	230.8	223.4	220.4	221.4	228.8	229.3
50°	2417.5	1504.7	304.1	255.6	242.7	223.4	214.9	212.0	214.5	222.4	223.4
52.5°	2698.3	1695.4	318.4	256.0	239.2	218.9	208.0	203.6	206.0	212.5	214.5
55°	3031.1	1934.1	355.6	258.1	234.3	216.4	203.0	193.2	196.1	200.6	201.1
57.5°	3370.9	2235.2	421.0	258.5	230.3	212.0	194.7	181.7	181.7	184.7	186.2
60°	3786.0	2563.1	507.1	259.0	230.8	205.5	183.2	168.9	166.9	168.4	168.9
62.5°	4198.1	2837.5	521.6	257.5	235.8	199.1	170.9	156.1	152.5	152.1	151.0
65°	4379.8	2786.5	427.4	250.6	241.2	195.1	161.0	143.6	137.7	135.7	135.7
67.5°	4083.6	2357.1	321.4	241.2	237.7	191.2	151.6	133.3	126.3	122.3	122.3
69°	3805.2	2096.6	288.8	234.7	228.8	184.7	145.6	127.8	119.3	114.9	113.5
70°	3590.3	1917.3	274.9	229.3	220.4	177.3	141.2	123.8	114.4	109.5	108.4
72.5°	2865.2	1504.1	240.7	208.5	187.7	149.1	125.3	111.4	102.5	97.1	95.6
75°	1651.3	815.3	199.6	181.3	151.0	115.9	106.0	97.1	90.1	85.2	83.7
77.5°	508.2	315.0	144.6	143.1	111.0	89.7	84.7	81.2	76.3	70.9	69.8
80°	214.0	160.4	98.0	96.5	73.8	62.4	60.9	60.4	58.4	53.9	52.5
82.5°	117.4	90.7	68.4	59.4	44.6	36.2	37.7	38.1	36.6	32.2	29.2
85°	57.5	49.6	33.2	26.8	20.3	12.8	12.4	14.9	13.9	9.9	10.9
87.5°	11.4	13.9	8.9	4.0	2.0	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)