

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: STREETWORKS

Report Number: P320036

Luminaire Tested: **GAN-SA2B-750-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320036  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2B-750-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11110 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

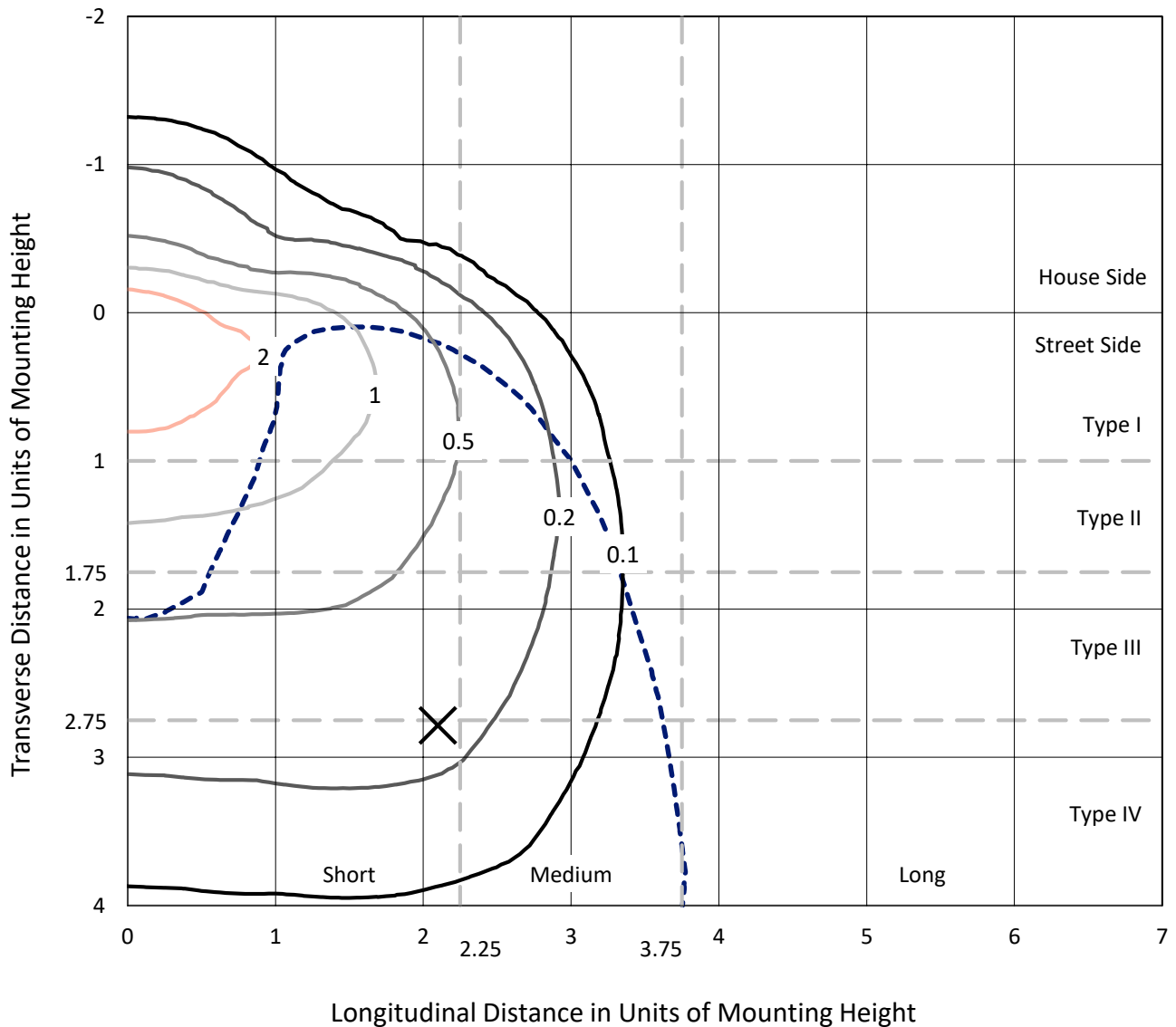
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

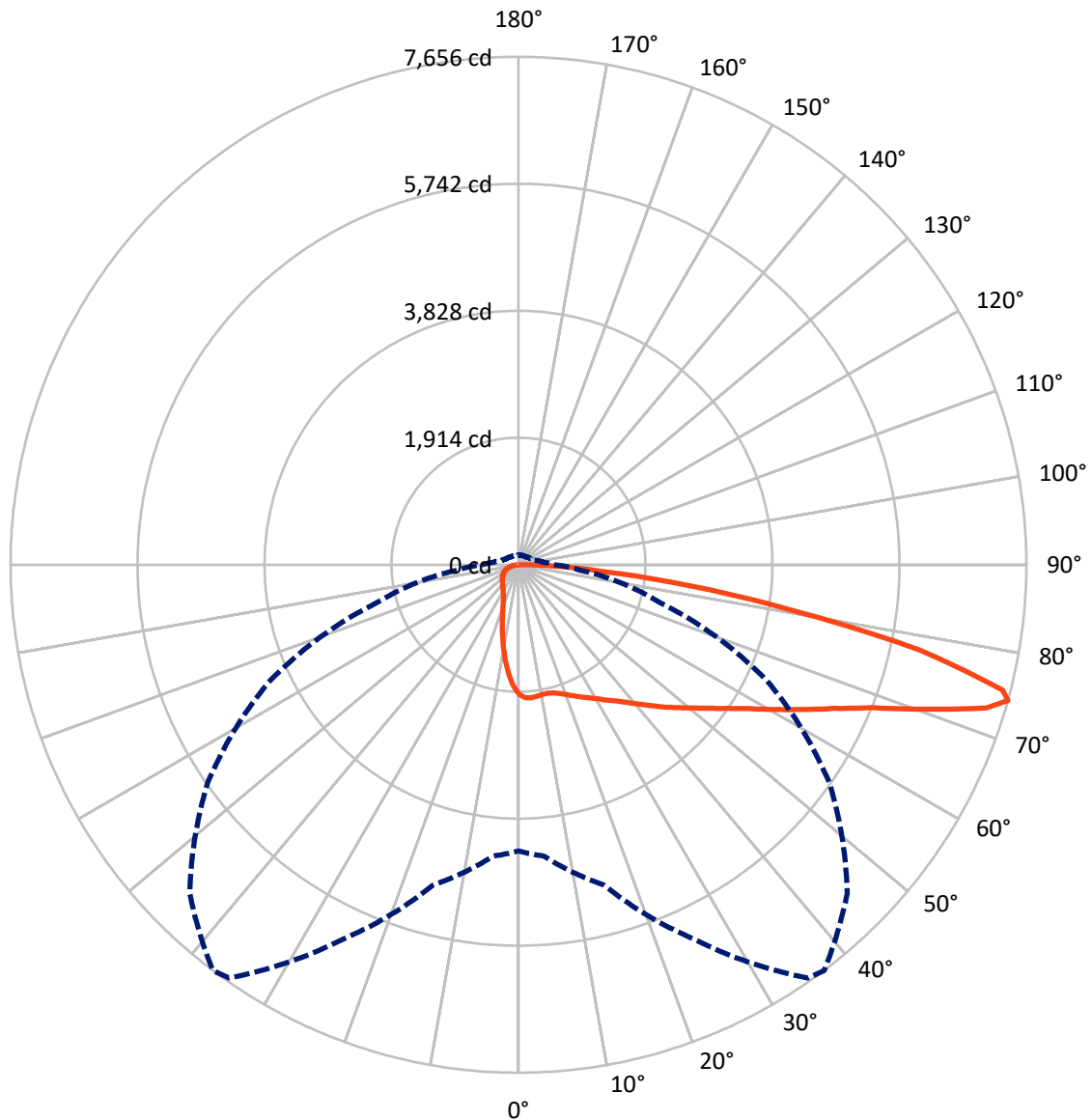
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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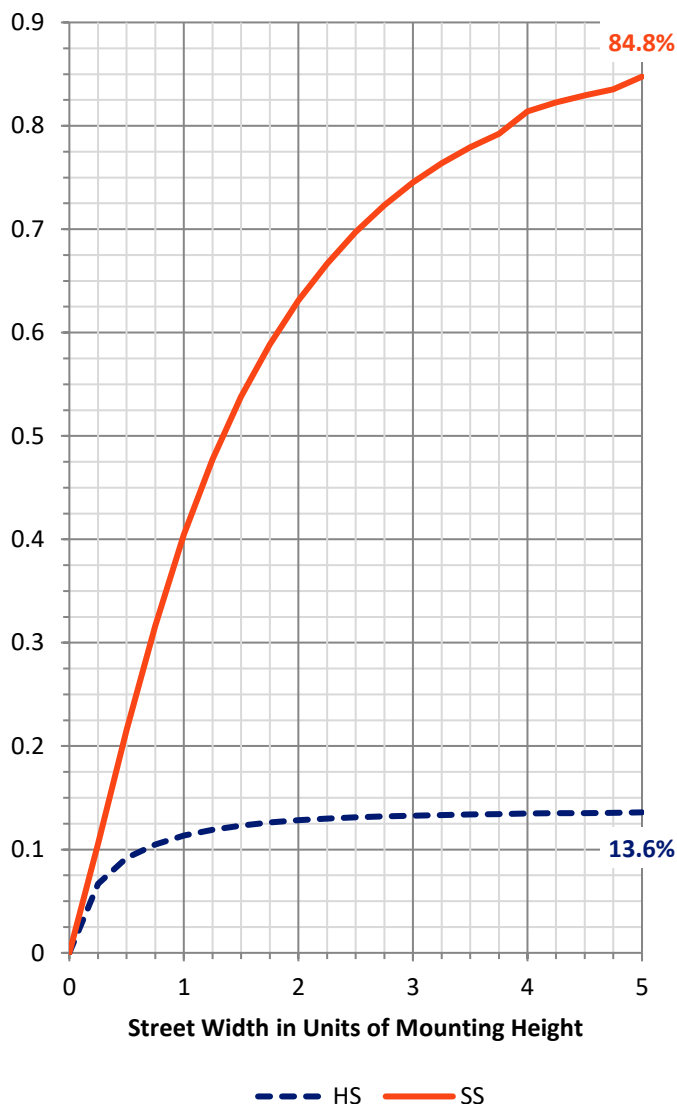
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1528.7	0.0	1528.7
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	9581.3	0.0	9581.3
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	11110.0	0.0	11110.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.4	1.6
10°-20°	441.9	4.0
20°-30°	680.8	6.1
30°-40°	990.0	8.9
40°-50°	1457.1	13.1
50°-60°	2046.3	18.4
60°-70°	2590.0	23.3
70°-80°	2280.6	20.5
80°-90°	450.9	4.1
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°	11110.0	100.0
0°-180°	11110.0	100.0

**Coefficient of Utilization**



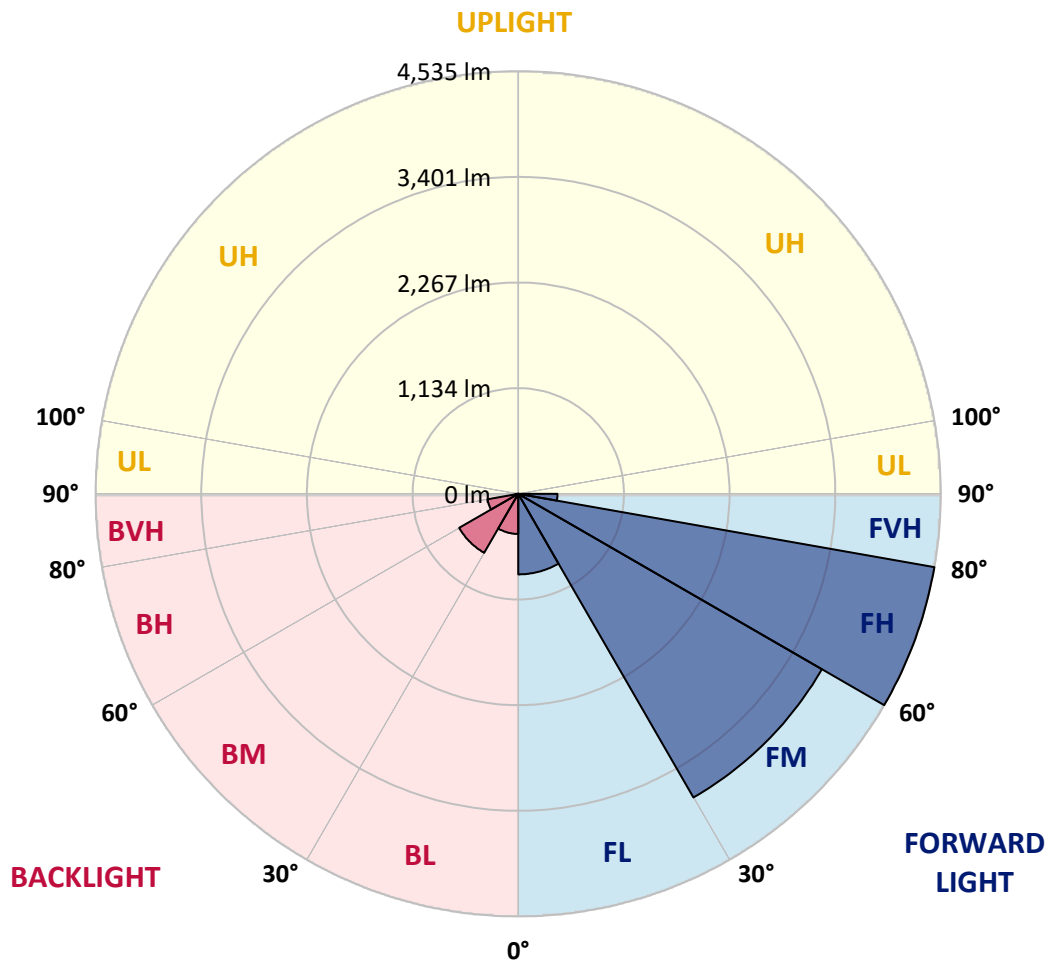
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.5	7.8			
FM (30°-60°)	3761.9	33.9			
FH (60°-80°)	4534.5	40.8			G2/5000
FVH (80°-90°)	420.4	3.8			G3/500
BL (0°-30°)	430.6	3.9	B1/500		
BM (30°-60°)	731.5	6.6	B1/1000		
BH (60°-80°)	336.0	3.0	B1/500		G1/500
BVH (80°-90°)	30.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5
2.5°	2024.5	2024.9	2024.5	2021.3	2013.9	2007.6	2002.5	1995.1	1978.7	1966.1	1947.4
5°	2043.6	2041.3	2039.7	2033.9	2022.1	2015.1	2005.3	1991.2	1964.2	1939.1	1908.6
7.5°	2034.6	2031.9	2028.4	2021.3	2008.0	2002.2	1988.5	1970.1	1937.6	1904.7	1860.9
10°	2006.8	2006.1	2004.5	2002.9	1991.6	1986.9	1974.4	1954.8	1922.7	1882.8	1831.5
12.5°	1975.9	1977.9	1984.2	1992.4	1987.3	1984.9	1977.1	1963.8	1930.9	1887.9	1826.0
15°	1956.4	1961.8	1978.7	2000.2	2004.5	2003.7	2001.8	1993.2	1958.3	1910.6	1838.6
17.5°	1949.7	1958.7	1990.8	2026.4	2038.9	2041.7	2042.5	2027.6	1988.8	1938.4	1851.5
20°	1961.8	1973.2	2020.2	2069.1	2089.0	2090.6	2087.1	2061.2	2017.8	1962.2	1858.5
22.5°	1998.6	2008.8	2067.5	2122.7	2145.4	2147.7	2137.2	2098.0	2048.3	1990.4	1868.3
25°	2069.5	2082.0	2140.7	2195.9	2207.6	2208.0	2192.7	2144.2	2088.3	2029.9	1889.4
27.5°	2161.8	2174.3	2227.2	2281.2	2274.9	2271.4	2250.7	2202.1	2140.3	2084.3	1927.0
30°	2264.7	2278.4	2328.5	2366.9	2352.0	2345.0	2328.1	2265.5	2212.7	2158.7	1984.5
32.5°	2371.2	2383.7	2427.6	2453.8	2435.0	2431.9	2406.4	2349.3	2307.0	2272.2	2077.7
35°	2480.4	2489.4	2532.4	2547.3	2522.3	2521.5	2514.4	2462.0	2435.4	2451.8	2213.1
37.5°	2591.9	2594.3	2631.1	2631.8	2624.4	2627.5	2635.0	2602.1	2609.5	2660.8	2389.2
40°	2691.3	2697.6	2724.2	2732.4	2745.3	2756.3	2793.5	2771.9	2829.5	2920.3	2608.4
42.5°	2764.9	2777.0	2819.7	2840.8	2882.7	2899.9	2952.4	2972.3	3088.2	3224.3	2869.0
45°	2827.1	2845.9	2914.4	2957.8	3028.7	3058.8	3133.9	3200.9	3380.5	3554.3	3143.3
47.5°	2894.4	2918.3	3004.0	3087.0	3183.3	3217.3	3353.9	3454.1	3692.4	3886.1	3402.0
50°	2993.4	3011.8	3095.6	3225.9	3346.1	3389.9	3578.9	3722.5	4009.4	4202.3	3626.3
52.5°	3131.6	3124.5	3195.4	3378.1	3539.4	3593.4	3819.2	4008.2	4330.7	4488.4	3815.7
55°	3270.5	3258.8	3308.5	3537.4	3764.8	3821.5	4083.8	4295.1	4636.3	4745.9	3960.9
57.5°	3425.1	3402.8	3444.7	3717.1	4021.5	4089.2	4380.0	4599.9	4936.9	4954.1	4053.2
60°	3584.4	3554.3	3601.2	3939.7	4347.5	4427.4	4726.7	4897.4	5220.2	5120.8	4083.0
62.5°	3723.7	3702.6	3775.0	4188.2	4715.0	4802.7	5067.2	5213.6	5499.7	5190.1	3975.7
65°	3845.4	3848.9	3974.2	4467.7	5124.7	5218.3	5457.8	5603.4	5719.6	5149.0	3724.9
67.5°	3990.6	4010.6	4224.2	4835.5	5640.5	5743.1	6026.0	6028.4	5842.5	4907.9	3231.0
70°	4202.3	4243.4	4568.2	5345.9	6373.9	6514.8	6733.2	6278.1	5669.9	4254.4	2542.2
72.5°	4390.2	4466.9	4934.2	5929.8	7267.8	7374.6	7146.9	6134.0	4948.6	3188.3	1583.8
74°	4313.9	4409.0	5000.7	6217.4	7604.3	7655.6	7007.1	5713.7	4126.0	2208.0	920.5
75°	4149.5	4252.8	4903.6	6214.7	7561.7	7533.1	6669.8	5233.5	3398.1	1505.9	612.5
77.5°	3348.8	3458.0	4131.9	5326.3	6200.2	6173.2	5123.6	3510.8	1488.3	493.9	311.1
80°	1947.0	2030.3	2564.9	3382.4	4180.8	4229.7	3369.5	1737.2	585.5	277.5	210.9
82.5°	864.9	922.4	1239.0	1726.6	2523.0	2586.0	1764.6	910.3	361.6	168.7	126.8
85°	567.5	610.1	752.2	822.2	1201.4	1244.5	863.7	708.7	238.7	92.8	93.1
87.5°	408.2	449.3	558.8	488.0	551.4	522.1	470.0	655.9	95.9	52.8	31.3
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°	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5
2.5°	1939.1	1932.9	1918.8	1892.2	1877.3	1864.8	1844.0	1831.9	1826.4	1826.0	1828.4
5°	1891.0	1876.5	1840.1	1795.5	1759.9	1727.4	1687.1	1662.9	1645.6	1635.5	1638.2
7.5°	1835.0	1812.3	1755.2	1684.0	1626.8	1563.8	1501.6	1464.4	1435.5	1414.0	1417.9
10°	1796.7	1765.4	1682.0	1579.5	1484.4	1392.8	1307.1	1255.8	1215.1	1183.8	1186.2
12.5°	1783.8	1741.5	1626.1	1489.1	1355.6	1230.4	1118.5	1039.8	997.9	962.3	965.1
15°	1785.7	1729.0	1579.1	1407.7	1239.8	1082.1	946.3	854.3	797.6	772.9	773.3
17.5°	1787.3	1714.5	1529.8	1320.4	1125.1	943.5	796.0	702.9	649.3	626.6	626.9
20°	1782.2	1691.0	1468.7	1220.2	1005.4	816.4	673.5	594.5	553.8	536.2	536.2
22.5°	1775.6	1663.2	1399.9	1119.7	887.2	706.0	585.9	525.6	502.1	490.4	490.0
25°	1778.7	1642.5	1329.4	1016.3	778.4	617.9	527.5	487.6	472.0	464.5	464.1
27.5°	1795.5	1632.7	1264.5	913.4	683.3	551.8	488.4	460.2	450.1	445.4	445.4
30°	1826.0	1632.7	1196.8	825.8	604.2	502.9	458.3	439.1	432.1	428.9	428.9
32.5°	1879.3	1641.7	1131.4	738.9	541.2	464.5	433.2	420.3	414.8	413.3	413.3
35°	1970.8	1672.2	1067.6	656.7	490.4	433.2	409.4	401.9	398.0	397.6	398.8
37.5°	2099.6	1734.5	1007.7	596.0	454.4	407.8	389.4	383.5	381.2	383.1	384.7
40°	2261.6	1819.0	953.3	541.2	427.0	387.4	371.0	367.1	365.9	368.7	371.0
42.5°	2457.3	1933.3	908.7	501.7	405.8	370.2	355.3	350.7	349.5	352.6	355.7
45°	2669.0	2056.2	877.4	472.4	389.4	357.3	341.6	336.6	334.2	335.8	339.3
47.5°	2861.6	2172.4	864.9	451.6	373.7	346.3	329.5	323.3	319.3	318.6	321.3
50°	3024.0	2258.9	870.8	439.1	361.2	334.2	317.8	310.7	304.9	301.3	303.3
52.5°	3142.2	2313.3	876.2	433.6	351.4	320.9	304.9	298.2	290.4	284.5	284.5
55°	3227.9	2325.8	864.1	429.3	344.0	306.4	290.4	284.1	276.3	269.6	268.9
57.5°	3261.5	2290.6	819.1	423.1	338.9	292.7	275.1	270.4	263.8	255.9	255.6
60°	3216.1	2181.8	732.2	409.7	332.3	281.4	259.9	256.7	253.6	246.2	245.8
62.5°	3033.8	1943.1	619.9	382.7	319.0	269.2	245.8	247.3	247.7	242.6	241.9
65°	2703.1	1615.1	510.3	347.5	299.0	254.8	231.3	238.7	243.0	242.2	241.1
67.5°	2222.5	1257.0	432.4	310.3	272.8	234.8	215.6	224.2	227.8	230.5	229.7
70°	1649.5	886.4	357.7	271.2	241.1	211.3	195.3	199.6	197.2	200.4	201.5
72.5°	919.7	531.8	291.6	232.1	208.2	183.9	172.6	171.8	166.7	166.7	166.7
74°	551.8	390.2	256.3	207.8	188.2	165.9	156.1	152.6	147.9	148.3	147.9
75°	443.8	335.4	235.2	191.8	174.2	155.4	145.6	140.9	137.4	137.4	137.0
77.5°	280.2	254.8	189.4	152.6	139.3	128.0	121.3	115.1	115.1	114.7	114.3
80°	211.7	202.7	147.5	115.4	106.8	98.2	93.9	91.2	91.2	92.4	92.0
82.5°	145.2	152.6	103.7	80.6	76.3	70.1	69.3	69.7	68.5	66.9	66.5
85°	106.1	114.7	70.1	50.9	46.6	42.7	45.8	47.4	45.4	41.9	40.3
87.5°	40.7	75.1	37.6	21.1	19.6	16.8	19.6	20.4	21.9	17.2	17.6
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)