

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: P319956

Luminaire Tested: **GAN-SA2B-730-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319956  
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-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 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: 10118 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

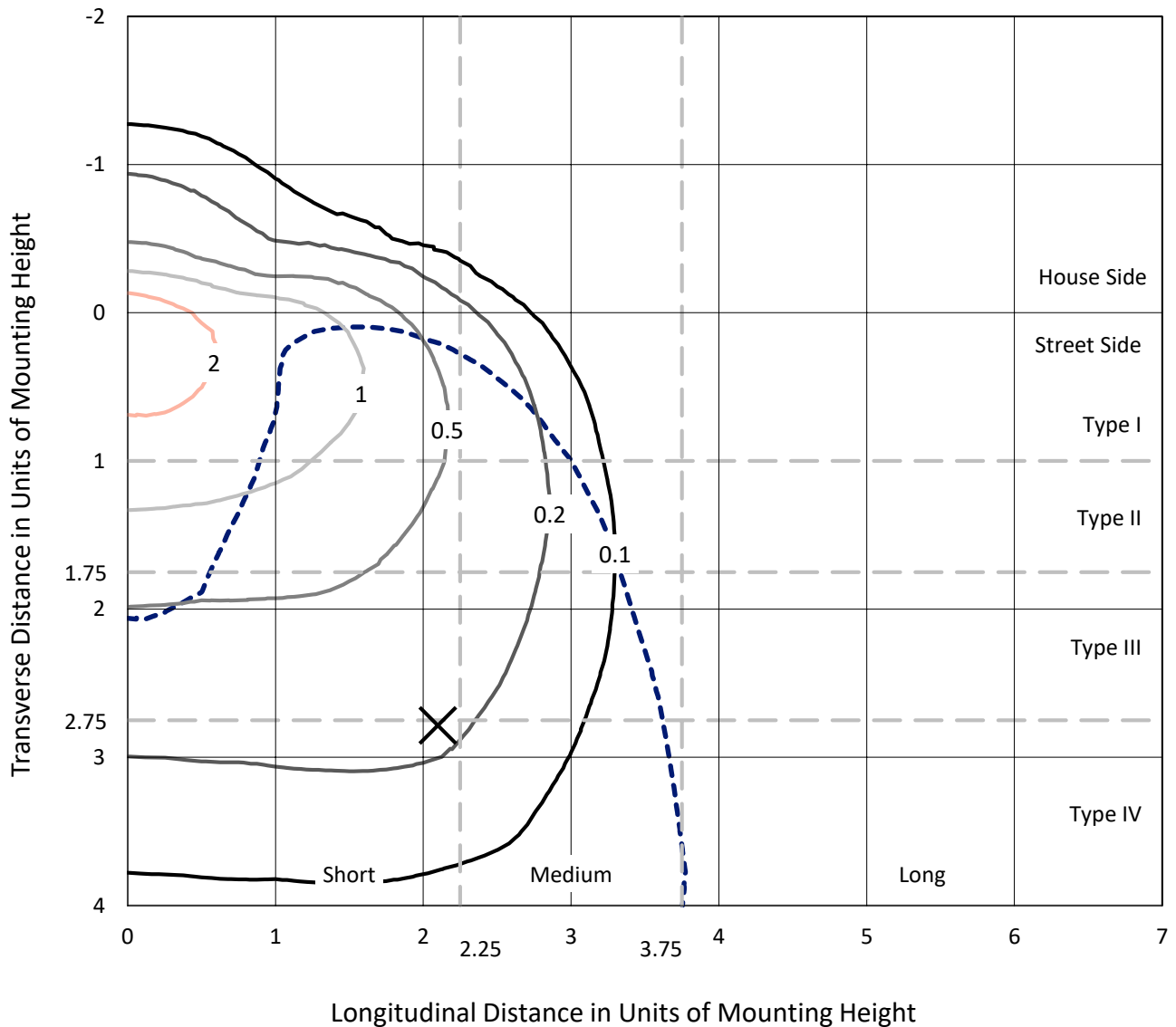
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

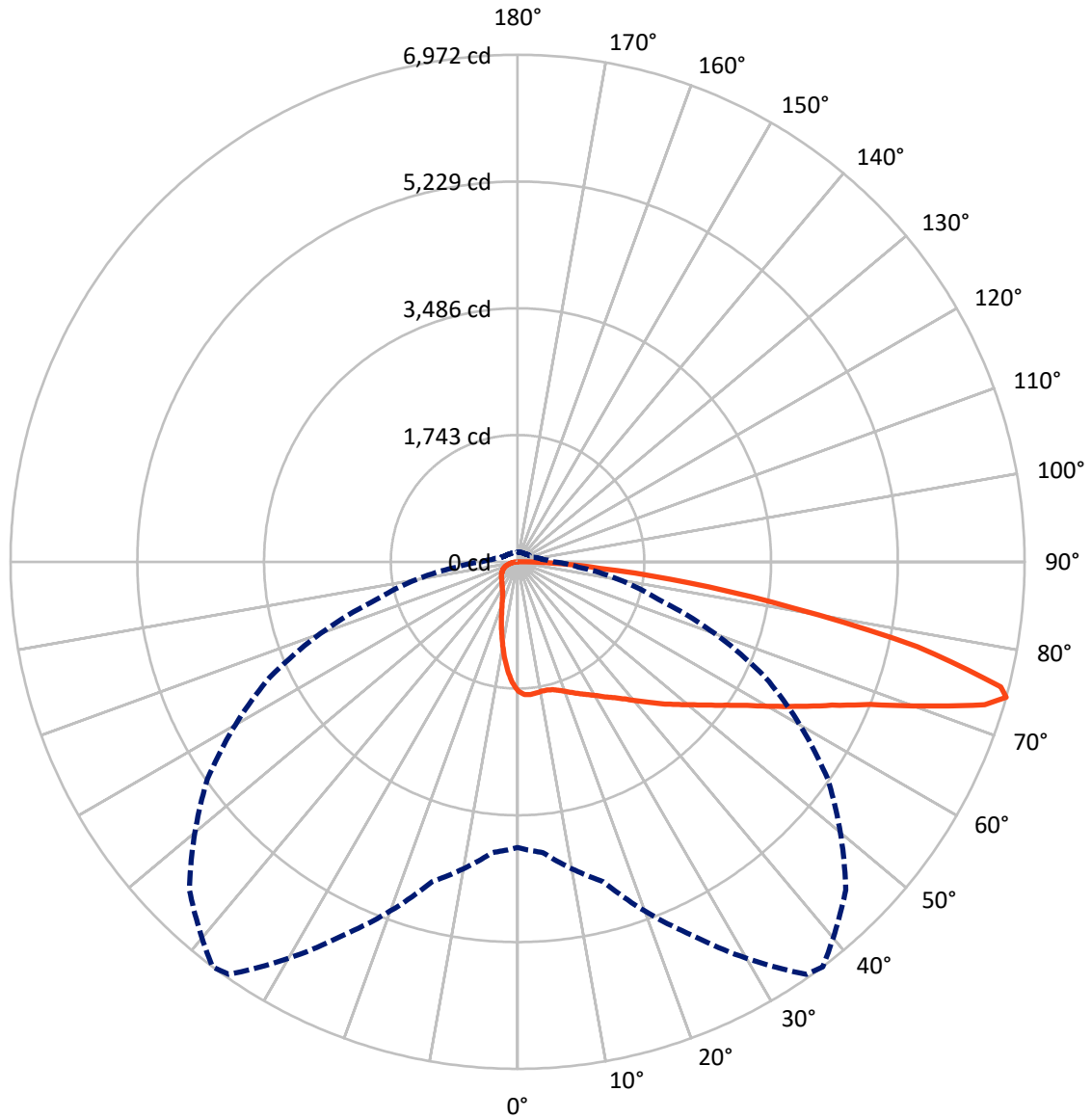
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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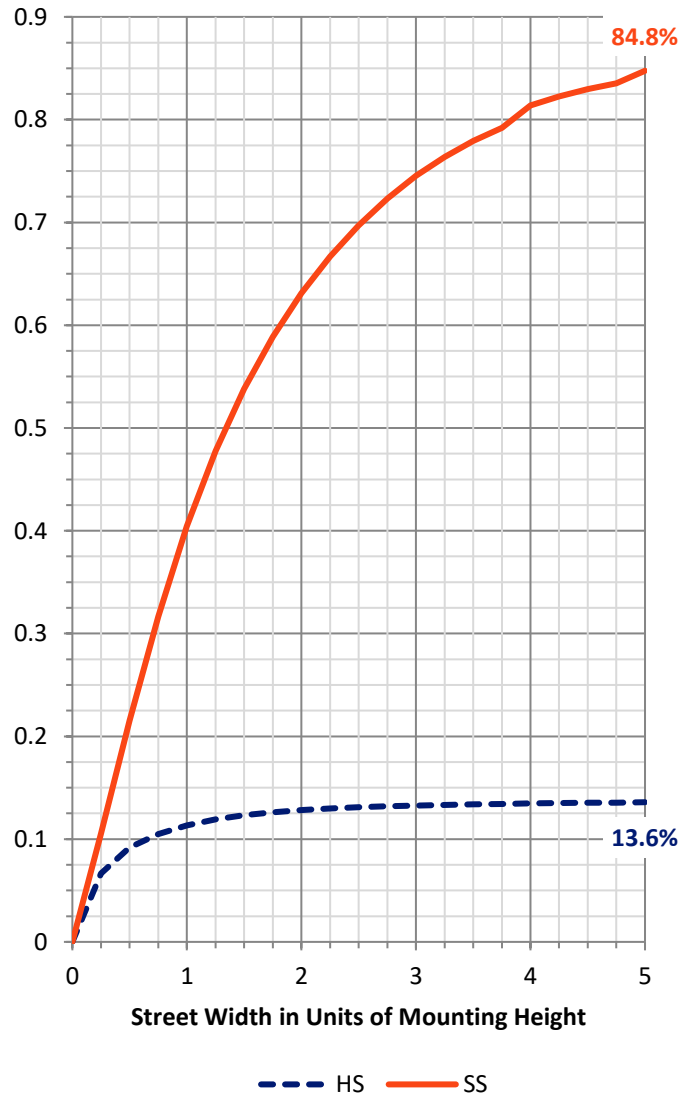
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1392.2	0.0	1392.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	8725.8	0.0	8725.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	10118.0	0.0	10118.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.0	1.6
10°-20°	402.4	4.0
20°-30°	620.0	6.1
30°-40°	901.6	8.9
40°-50°	1327.0	13.1
50°-60°	1863.6	18.4
60°-70°	2358.7	23.3
70°-80°	2076.9	20.5
80°-90°	410.6	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°	10118.0	100.0
0°-180°	10118.0	100.0

**Coefficient of Utilization**



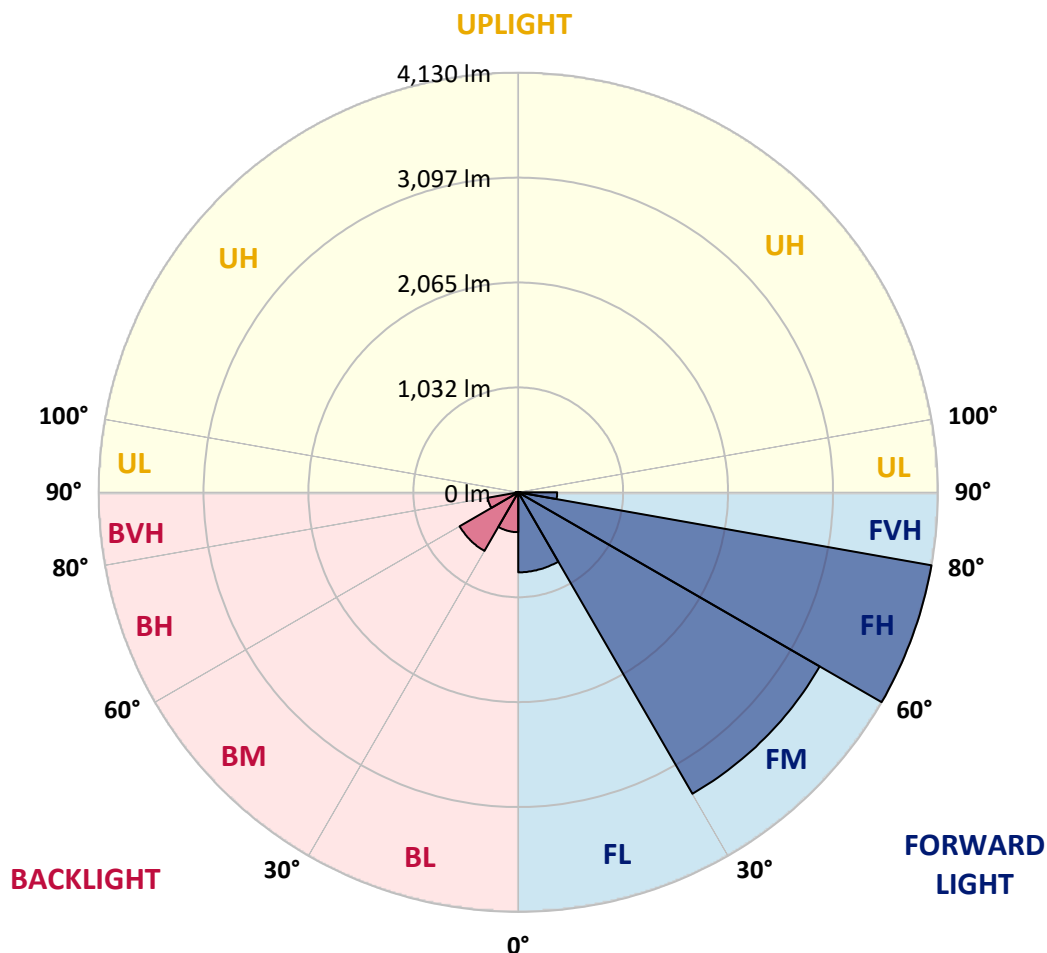
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	787.3	7.8			
FM (30°-60°)	3426.0	33.9			
FH (60°-80°)	4129.7	40.8			G2/5000
FVH (80°-90°)	382.8	3.8			G3/500
BL (0°-30°)	392.1	3.9	B1/500		
BM (30°-60°)	666.2	6.6	B1/1000		
BH (60°-80°)	306.0	3.0	B1/500		G1/500
BVH (80°-90°)	27.8	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°	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8
2.5°	1843.7	1844.1	1843.7	1840.8	1834.1	1828.4	1823.7	1817.0	1802.0	1790.6	1773.5
5°	1861.2	1859.0	1857.6	1852.3	1841.6	1835.1	1826.2	1813.4	1788.8	1766.0	1738.2
7.5°	1853.0	1850.5	1847.3	1840.8	1828.7	1823.4	1810.9	1794.2	1764.6	1734.6	1694.7
10°	1827.7	1826.9	1825.5	1824.1	1813.8	1809.5	1798.1	1780.3	1751.0	1714.7	1668.0
12.5°	1799.5	1801.3	1807.0	1814.5	1809.8	1807.7	1800.6	1788.5	1758.5	1719.3	1663.0
15°	1781.7	1786.7	1802.0	1821.6	1825.5	1824.8	1823.0	1815.2	1783.5	1740.0	1674.4
17.5°	1775.6	1783.8	1813.0	1845.5	1856.9	1859.4	1860.1	1846.5	1811.3	1765.3	1686.2
20°	1786.7	1797.0	1839.8	1884.3	1902.5	1903.9	1900.7	1877.2	1837.6	1787.0	1692.6
22.5°	1820.2	1829.4	1882.9	1933.2	1953.8	1956.0	1946.3	1910.7	1865.4	1812.7	1701.5
25°	1884.7	1896.1	1949.6	1999.8	2010.5	2010.9	1997.0	1952.8	1901.8	1848.7	1720.7
27.5°	1968.8	1980.2	2028.3	2077.5	2071.8	2068.6	2049.7	2005.5	1949.2	1898.2	1755.0
30°	2062.5	2075.0	2120.6	2155.6	2142.0	2135.6	2120.3	2063.2	2015.1	1965.9	1807.3
32.5°	2159.5	2170.9	2210.8	2234.7	2217.6	2214.7	2191.6	2139.5	2101.0	2069.3	1892.2
35°	2258.9	2267.1	2306.3	2319.9	2297.0	2296.3	2289.9	2242.2	2217.9	2232.9	2015.5
37.5°	2360.5	2362.6	2396.1	2396.8	2390.1	2392.9	2399.7	2369.8	2376.5	2423.2	2175.9
40°	2451.0	2456.7	2481.0	2488.4	2500.2	2510.2	2544.0	2524.4	2576.8	2659.5	2375.5
42.5°	2518.0	2529.1	2567.9	2587.2	2625.3	2641.0	2688.7	2706.9	2812.4	2936.4	2612.8
45°	2574.7	2591.8	2654.2	2693.7	2758.2	2785.7	2854.1	2915.1	3078.7	3236.9	2862.7
47.5°	2636.0	2657.7	2735.8	2811.3	2899.0	2930.0	3054.4	3145.7	3362.7	3539.1	3098.3
50°	2726.2	2742.9	2819.2	2937.9	3047.3	3087.2	3259.4	3390.2	3651.4	3827.1	3302.5
52.5°	2852.0	2845.6	2910.1	3076.5	3223.4	3272.5	3478.2	3650.3	3944.0	4087.6	3475.0
55°	2978.5	2967.8	3013.1	3221.6	3428.6	3480.3	3719.1	3911.6	4222.4	4322.2	3607.2
57.5°	3119.3	3099.0	3137.1	3385.2	3662.4	3724.1	3988.9	4189.2	4496.1	4511.8	3691.3
60°	3264.3	3236.9	3279.7	3588.0	3959.3	4032.0	4304.7	4460.1	4754.1	4663.6	3718.4
62.5°	3391.2	3372.0	3437.9	3814.3	4294.0	4373.8	4614.8	4748.1	5008.6	4726.7	3620.7
65°	3502.1	3505.3	3619.3	4068.8	4667.2	4752.3	4970.5	5103.0	5208.9	4689.3	3392.3
67.5°	3634.3	3652.5	3847.1	4403.8	5136.9	5230.3	5488.0	5490.1	5320.8	4469.7	2942.5
70°	3827.1	3864.5	4160.3	4868.5	5804.8	5933.1	6132.0	5717.5	5163.6	3874.5	2315.2
72.5°	3998.2	4068.0	4493.6	5400.3	6618.9	6716.2	6508.7	5586.3	4506.8	2903.7	1442.4
74°	3928.7	4015.3	4554.2	5662.3	6925.4	6972.1	6381.5	5203.6	3757.6	2010.9	838.3
75°	3779.0	3873.1	4465.8	5659.8	6886.5	6860.5	6074.3	4766.2	3094.7	1371.5	557.8
77.5°	3049.8	3149.2	3763.0	4850.7	5646.6	5622.0	4666.1	3197.3	1355.4	449.8	283.3
80°	1773.1	1849.0	2335.9	3080.4	3807.5	3852.1	3068.7	1582.1	533.2	252.7	192.1
82.5°	787.7	840.1	1128.4	1572.5	2297.8	2355.1	1607.0	829.0	329.3	153.6	115.5
85°	516.8	555.6	685.0	748.8	1094.2	1133.4	786.6	645.5	217.4	84.5	84.8
87.5°	371.7	409.2	509.0	444.4	502.2	475.4	428.0	597.3	87.3	48.1	28.5
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°	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8
2.5°	1766.0	1760.3	1747.5	1723.2	1709.7	1698.3	1679.4	1668.3	1663.4	1663.0	1665.1
5°	1722.2	1709.0	1675.8	1635.2	1602.8	1573.2	1536.5	1514.4	1498.7	1489.4	1491.9
7.5°	1671.2	1650.5	1598.5	1533.6	1481.6	1424.2	1367.5	1333.7	1307.3	1287.7	1291.3
10°	1636.3	1607.8	1531.8	1438.5	1351.9	1268.5	1190.4	1143.7	1106.6	1078.1	1080.3
12.5°	1624.5	1586.0	1480.9	1356.1	1234.6	1120.5	1018.6	947.0	908.8	876.4	878.9
15°	1626.3	1574.6	1438.1	1282.0	1129.1	985.5	861.8	778.0	726.4	703.9	704.3
17.5°	1627.7	1561.4	1393.2	1202.5	1024.7	859.3	724.9	640.1	591.3	570.6	571.0
20°	1623.1	1540.0	1337.6	1111.3	915.6	743.5	613.4	541.4	504.3	488.3	488.3
22.5°	1617.0	1514.7	1274.9	1019.7	808.0	643.0	533.5	478.7	457.3	446.6	446.2
25°	1619.9	1495.8	1210.7	925.6	708.9	562.8	480.4	444.1	429.8	423.1	422.7
27.5°	1635.2	1486.9	1151.6	831.9	622.3	502.5	444.8	419.1	409.9	405.6	405.6
30°	1663.0	1486.9	1089.9	752.0	550.3	458.0	417.4	399.9	393.5	390.6	390.6
32.5°	1711.5	1495.1	1030.4	672.9	492.9	423.1	394.5	382.8	377.8	376.4	376.4
35°	1794.9	1522.9	972.3	598.1	446.6	394.5	372.8	366.0	362.5	362.1	363.2
37.5°	1912.1	1579.6	917.8	542.8	413.8	371.4	354.6	349.3	347.1	348.9	350.3
40°	2059.7	1656.6	868.2	492.9	388.8	352.8	337.9	334.3	333.2	335.7	337.9
42.5°	2237.9	1760.7	827.6	456.9	369.6	337.2	323.6	319.3	318.3	321.1	324.0
45°	2430.7	1872.6	799.1	430.2	354.6	325.4	311.1	306.5	304.4	305.8	309.0
47.5°	2606.1	1978.4	787.7	411.3	340.4	315.4	300.1	294.4	290.8	290.1	292.6
50°	2754.0	2057.2	793.0	399.9	329.0	304.4	289.4	283.0	277.6	274.4	276.2
52.5°	2861.6	2106.7	798.0	394.9	320.1	292.3	277.6	271.6	264.5	259.1	259.1
55°	2939.7	2118.1	786.9	391.0	313.3	279.1	264.5	258.8	251.6	245.6	244.9
57.5°	2970.3	2086.1	746.0	385.3	308.6	266.6	250.6	246.3	240.2	233.1	232.7
60°	2929.0	1987.0	666.8	373.2	302.6	256.3	236.7	233.8	231.0	224.2	223.8
62.5°	2762.9	1769.6	564.6	348.6	290.5	245.2	223.8	225.2	225.6	221.0	220.3
65°	2461.7	1470.9	464.8	316.5	272.3	232.0	210.6	217.4	221.3	220.6	219.5
67.5°	2024.0	1144.8	393.8	282.6	248.4	213.8	196.4	204.2	207.4	209.9	209.2
70°	1502.3	807.3	325.8	247.0	219.5	192.5	177.8	181.8	179.6	182.5	183.6
72.5°	837.6	484.4	265.5	211.3	189.6	167.5	157.2	156.5	151.8	151.8	151.8
74°	502.5	355.3	233.4	189.3	171.4	151.1	142.2	139.0	134.7	135.1	134.7
75°	404.2	305.4	214.2	174.6	158.6	141.5	132.6	128.3	125.1	125.1	124.7
77.5°	255.2	232.0	172.5	139.0	126.9	116.5	110.5	104.8	104.8	104.4	104.1
80°	192.8	184.6	134.4	105.1	97.3	89.5	85.5	83.0	83.0	84.1	83.8
82.5°	132.2	139.0	94.4	73.4	69.5	63.8	63.1	63.4	62.4	60.9	60.6
85°	96.6	104.4	63.8	46.3	42.4	38.8	41.7	43.1	41.3	38.1	36.7
87.5°	37.1	68.4	34.2	19.2	17.8	15.3	17.8	18.5	20.0	15.7	16.0
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)