

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: P320923

Luminaire Tested: **GAN-SA9B-730-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47731 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

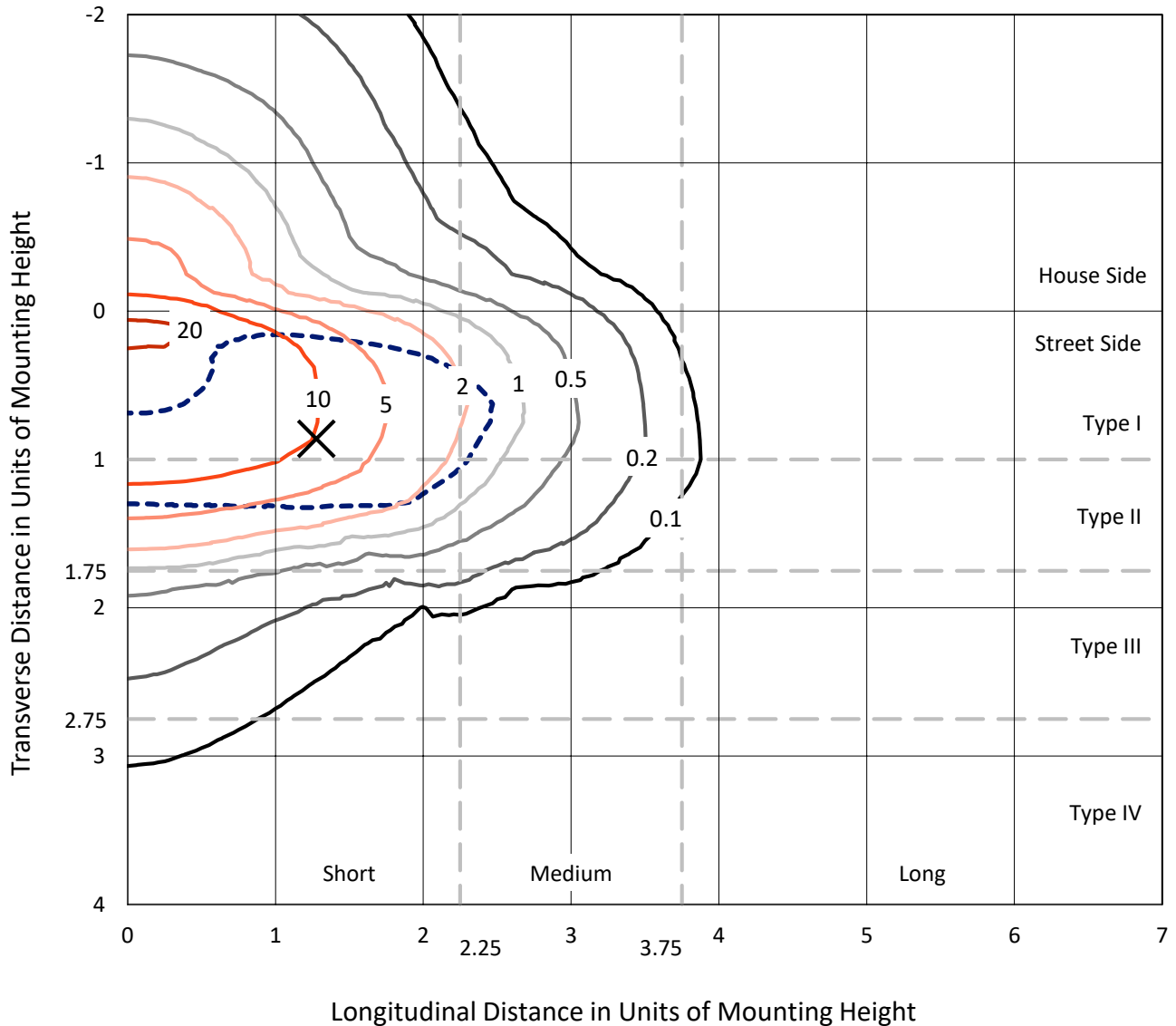
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

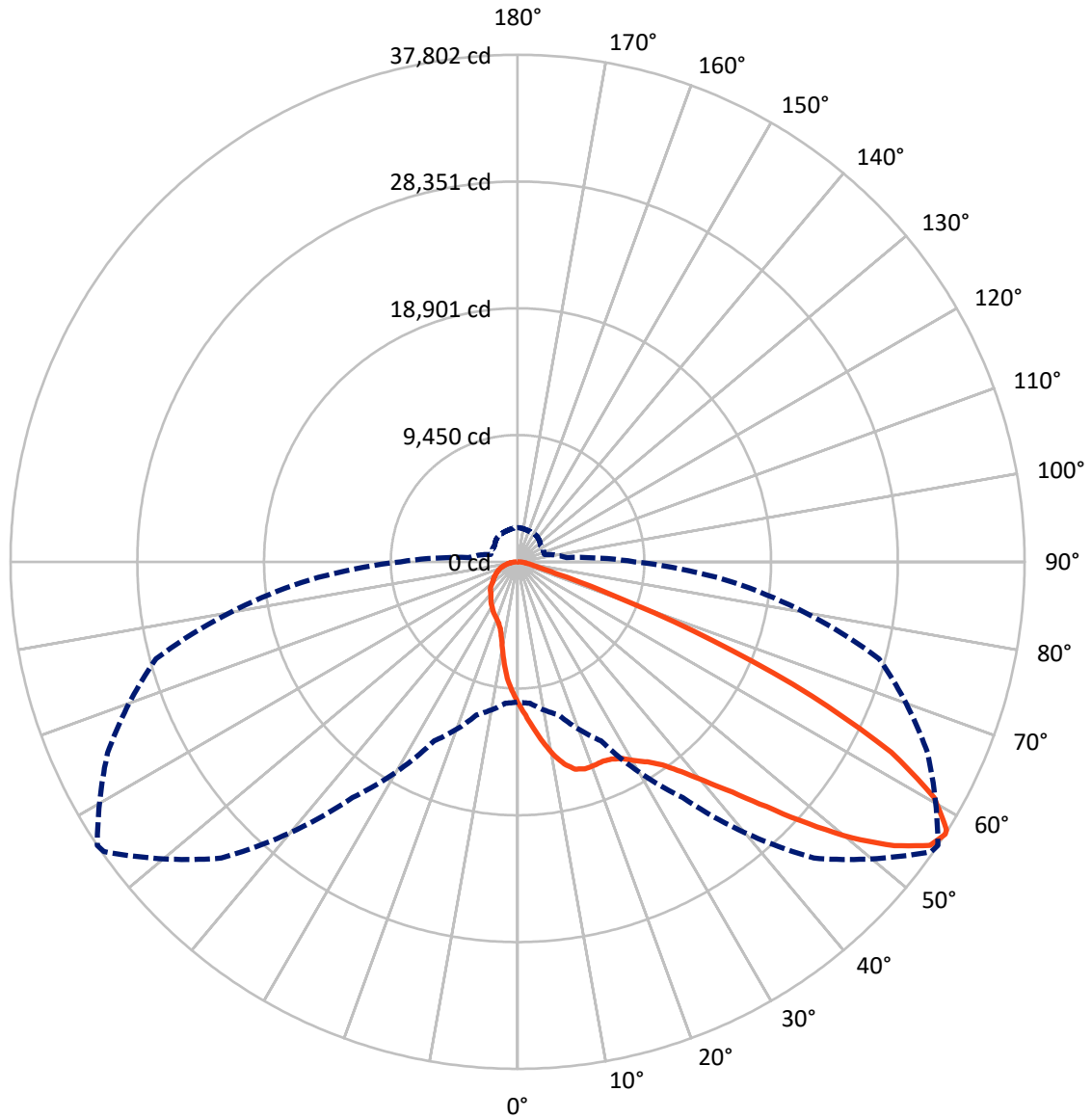
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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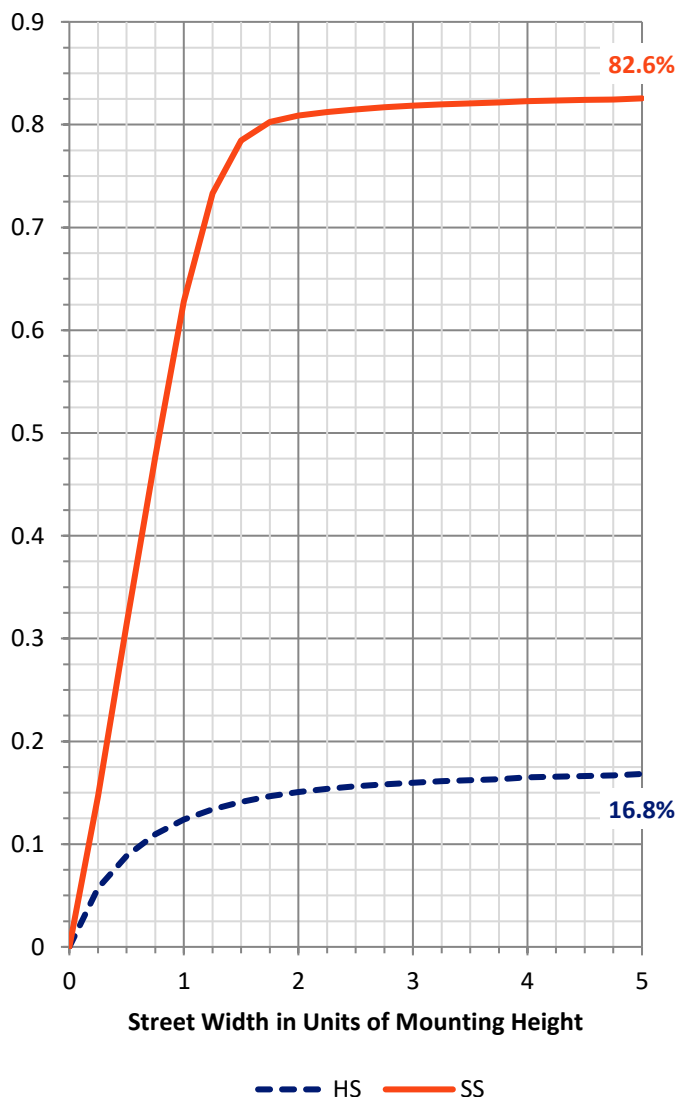
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8227.8	0.0	8227.8
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	39503.2	0.0	39503.2
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	47731.0	0.0	47731.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1011.3	2.1
10°-20°	2859.2	6.0
20°-30°	4657.1	9.8
30°-40°	6961.8	14.6
40°-50°	10559.6	22.1
50°-60°	11835.4	24.8
60°-70°	6990.5	14.6
70°-80°	2290.3	4.8
80°-90°	565.9	1.2
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°	47731.0	100.0
0°-180°	47731.0	100.0

**Coefficient of Utilization**

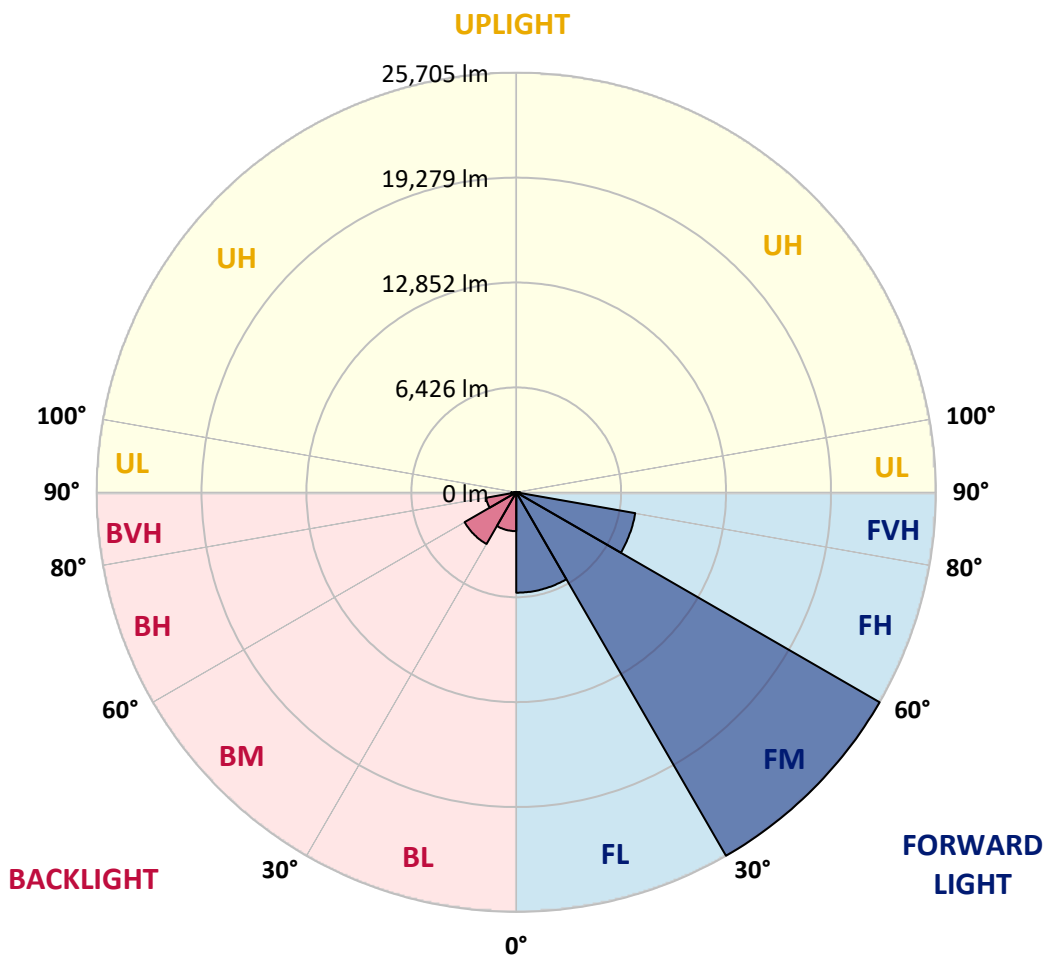


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6148.5	12.9			
FM (30°-60°)	25704.7	53.9			
FH (60°-80°)	7400.8	15.5			G3/7500
FVH (80°-90°)	249.2	0.5			G3/500
BL (0°-30°)	2379.1	5.0	B3/2500		
BM (30°-60°)	3652.1	7.7	B3/5000		
BH (60°-80°)	1880.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	316.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10586.8	10586.8	10586.8	10586.8	10586.8	10586.8	10586.8	10586.8	10586.8	10586.8	10586.8
2.5°	12156.6	12268.1	12218.9	12048.3	11917.1	11731.7	11525.1	11462.7	11244.6	11000.1	10706.5
5°	14080.7	14024.9	13944.6	13678.8	13398.3	13071.9	12553.6	12471.5	11986.0	11433.2	10849.2
7.5°	15176.5	15171.5	15124.0	14968.1	14712.2	14285.8	13660.8	13564.0	12830.8	11941.7	11036.2
10°	15017.3	15005.9	15084.6	15247.0	15324.1	15235.5	14709.0	14612.2	13711.6	12504.3	11252.8
12.5°	14113.5	14120.1	14246.4	14587.6	15051.8	15609.5	15524.2	15476.6	14625.3	13140.8	11515.2
15°	13409.8	13424.6	13524.6	13821.5	14369.4	15381.5	16019.6	16036.0	15509.5	13842.9	11822.0
17.5°	13101.4	13132.6	13178.5	13386.8	13888.8	14927.1	16137.7	16226.3	16283.7	14571.2	12117.2
20°	13199.8	13229.4	13242.5	13375.4	13787.1	14651.6	16055.7	16214.8	16877.5	15256.8	12412.5
22.5°	13641.1	13659.1	13667.3	13701.8	14021.7	14730.3	16001.6	16168.9	17307.3	15872.0	12635.6
25°	14372.7	14359.6	14307.1	14262.8	14477.7	15042.0	16126.2	16285.3	17656.7	16429.7	12781.6
27.5°	15248.6	15232.2	15130.5	15009.1	15132.2	15527.5	16485.5	16611.8	17970.0	16951.3	12855.4
30°	16300.1	16257.4	16065.5	15921.2	15968.7	16255.8	17077.6	17192.4	18453.9	17543.5	12927.5
32.5°	17515.6	17469.7	17192.4	16953.0	16953.0	17192.4	17687.8	17783.0	18864.0	18212.7	13044.0
35°	19037.8	18980.4	18619.5	18217.7	18104.5	18225.9	18519.5	18586.7	19602.1	19055.9	13255.6
37.5°	20832.4	20755.3	20287.8	19749.7	19502.0	19495.5	19707.1	19844.9	20781.5	20163.1	13614.9
40°	22631.8	22577.7	22169.2	21746.0	21260.5	21104.7	21431.1	21473.7	22323.4	21537.7	14074.2
42.5°	24022.8	24013.0	23937.5	23993.3	23496.3	23181.3	23437.2	23471.7	24206.6	23025.5	14563.0
45°	24757.7	24774.1	25139.9	25950.2	26134.0	25904.3	26030.6	26040.5	26358.7	24526.4	15010.8
47.5°	24168.8	24254.1	25179.3	26991.9	28496.1	29258.8	29048.8	29170.2	28445.2	25815.7	15361.8
50°	21874.0	21979.0	23553.7	26527.6	29598.4	32505.1	32395.2	32367.3	30128.2	26760.6	15552.1
52.5°	19031.3	19113.3	20412.4	24114.7	28789.7	34299.6	35308.4	35164.1	31624.2	27467.6	15588.2
55°	14702.4	14830.3	16075.4	19298.6	25518.8	33613.9	37450.7	37321.1	32987.3	27838.3	15545.5
57°	10452.3	10586.8	11823.6	14728.6	21467.2	31240.3	37663.9	37801.7	33723.8	27900.6	15593.1
57.5°	9327.0	9464.8	10690.1	13511.5	20204.1	30382.4	37480.2	37709.9	33856.7	27890.8	15619.4
60°	4696.3	4748.8	5529.6	7542.3	12771.7	24562.5	35083.7	35675.8	33976.4	27408.5	15732.5
62.5°	2919.8	2882.1	2857.5	3474.2	6213.6	16288.6	30138.0	31278.1	31684.9	26240.6	15458.6
65°	2567.1	2496.6	2225.9	2176.7	2744.3	7911.4	22695.8	24114.7	26788.5	24400.1	14805.7
67.5°	2411.3	2342.4	2037.3	1853.6	1855.2	3136.3	14090.6	15688.2	20868.5	21288.4	13265.5
70°	2250.6	2188.2	1902.8	1686.3	1579.7	1737.1	6482.6	7694.9	13603.4	16733.1	11087.1
72.5°	2043.9	2001.2	1730.6	1507.5	1394.3	1300.8	2481.8	2931.3	7875.3	11238.0	7699.8
75°	1827.3	1788.0	1556.7	1343.4	1205.7	1023.6	1397.6	1505.8	4000.8	5749.4	3790.8
77.5°	1589.5	1566.5	1384.5	1187.6	1077.7	848.1	989.1	1041.6	1715.8	2465.4	1901.2
80°	1264.7	1309.0	1210.6	1058.0	956.3	679.1	700.4	734.9	999.0	1204.0	1079.3
82.5°	823.5	900.5	948.1	859.5	787.4	534.8	503.6	518.3	651.2	734.9	469.1
85°	342.8	385.5	623.3	562.6	523.3	390.4	337.9	344.5	403.5	418.3	191.9
87.5°	152.6	162.4	273.9	257.5	221.4	134.5	144.4	157.5	214.9	203.4	73.8
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°	10586.8	10586.8	10586.8	10586.8	10586.8	10586.8	10586.8	10586.8	10586.8	10586.8	10586.8
2.5°	10596.6	10458.8	10222.6	9961.8	9748.6	9578.0	9405.7	9287.6	9149.8	9076.0	9038.3
5°	10604.8	10334.2	9837.1	9327.0	8871.0	8454.3	8057.4	7752.3	7466.8	7312.7	7270.0
7.5°	10639.3	10232.5	9428.7	8588.8	7778.5	7038.7	6467.9	6110.3	5852.7	5737.9	5705.1
10°	10667.2	10112.7	8923.5	7680.1	6577.8	5828.1	5385.2	5185.1	5096.5	5081.8	5067.0
12.5°	10732.8	9989.7	8392.0	6732.0	5644.4	5126.1	4971.9	4958.8	4983.4	5019.5	5019.5
15°	10836.1	9868.3	7785.1	5918.4	5050.6	4868.5	4899.7	4971.9	5039.1	5094.9	5103.1
17.5°	10911.6	9719.0	7132.2	5267.1	4734.0	4783.2	4894.8	4996.5	5065.4	5119.5	5124.4
20°	10965.7	9487.7	6435.1	4770.1	4552.0	4704.5	4843.9	4934.2	4981.7	5035.9	5044.1
22.5°	10937.8	9177.7	5816.7	4414.2	4404.3	4589.7	4722.5	4830.8	4794.7	4742.2	4776.7
25°	10803.3	8751.2	5180.2	4148.4	4248.5	4435.5	4599.5	4527.3	4406.0	4383.0	4396.1
27.5°	10563.8	8206.6	4591.3	3902.4	4068.1	4292.8	4282.9	4210.8	4168.1	4138.6	4156.6
30°	10306.3	7616.1	4076.3	3687.5	3867.9	4053.3	4015.6	4013.9	3971.3	3923.7	3946.7
32.5°	10052.0	7022.3	3667.8	3510.3	3717.0	3741.6	3823.6	3848.2	3764.6	3664.5	3658.0
35°	9830.6	6461.3	3357.8	3349.6	3534.9	3538.2	3658.0	3623.5	3415.2	3311.9	3311.9
37.5°	9664.9	5902.0	3121.6	3205.2	3295.5	3380.7	3441.4	3298.7	3264.3	3206.9	3205.2
40°	9592.7	5409.9	2973.9	3095.3	3126.5	3234.8	3078.9	3134.7	3151.1	3121.6	3121.6
42.5°	9517.3	4981.7	2846.0	3011.7	3006.8	2992.0	2913.3	2985.4	3051.0	3052.7	3047.8
45°	9441.8	4612.6	2732.8	2832.9	2901.8	2742.7	2757.4	2834.5	2926.4	2959.2	2959.2
47.5°	9358.2	4320.7	2629.5	2644.2	2750.9	2644.2	2632.8	2691.8	2800.1	2852.6	2864.0
50°	9174.4	4058.2	2511.4	2478.6	2508.1	2544.2	2554.0	2581.9	2701.6	2785.3	2805.0
52.5°	8920.2	3823.6	2360.5	2326.0	2326.0	2462.2	2508.1	2516.3	2618.0	2718.0	2737.7
55°	8708.6	3674.4	2204.6	2198.1	2191.5	2375.2	2454.0	2467.1	2537.6	2616.3	2626.2
57°	8723.3	3662.9	2084.9	2091.4	2089.8	2286.6	2403.1	2431.0	2467.1	2534.3	2545.8
57.5°	8731.6	3671.1	2058.6	2061.9	2060.3	2262.0	2388.3	2419.5	2447.4	2517.9	2529.4
60°	8854.6	3692.4	1952.0	1915.9	1924.1	2130.8	2304.7	2344.1	2362.1	2455.6	2470.4
62.5°	8672.5	3597.3	1866.7	1779.8	1779.8	1993.0	2188.2	2250.6	2278.4	2404.7	2429.3
65°	8144.3	3329.9	1766.7	1625.6	1642.0	1855.2	2048.8	2150.5	2193.1	2350.6	2376.9
67.5°	7329.1	3019.9	1660.0	1487.8	1504.2	1710.9	1904.4	2014.3	2081.6	2291.6	2312.9
70°	6267.8	2641.0	1515.7	1341.8	1361.5	1553.4	1733.8	1858.5	1958.6	2235.8	2242.4
72.5°	4620.8	2165.3	1313.9	1181.0	1202.4	1369.7	1561.6	1706.0	1840.5	2096.4	2093.1
75°	2747.6	1692.8	1090.8	1018.7	1033.4	1189.2	1405.8	1581.3	1783.1	2042.2	2073.4
77.5°	1666.6	1274.5	889.1	853.0	871.0	1030.1	1294.2	1481.2	1758.4	1925.8	1915.9
80°	1007.2	910.4	710.3	687.3	705.3	880.9	1197.5	1405.8	1537.0	1645.3	1645.3
82.5°	526.6	556.1	521.6	503.6	528.2	715.2	1089.2	1227.0	1358.2	1166.3	1089.2
85°	214.9	290.3	316.6	314.9	329.7	495.4	939.9	1049.8	875.9	831.7	851.3
87.5°	72.2	123.0	154.2	132.9	139.4	311.7	651.2	506.9	602.0	419.9	398.6
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)