

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: P649165

Luminaire Tested: **GLAN-SA9C-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50188.7 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

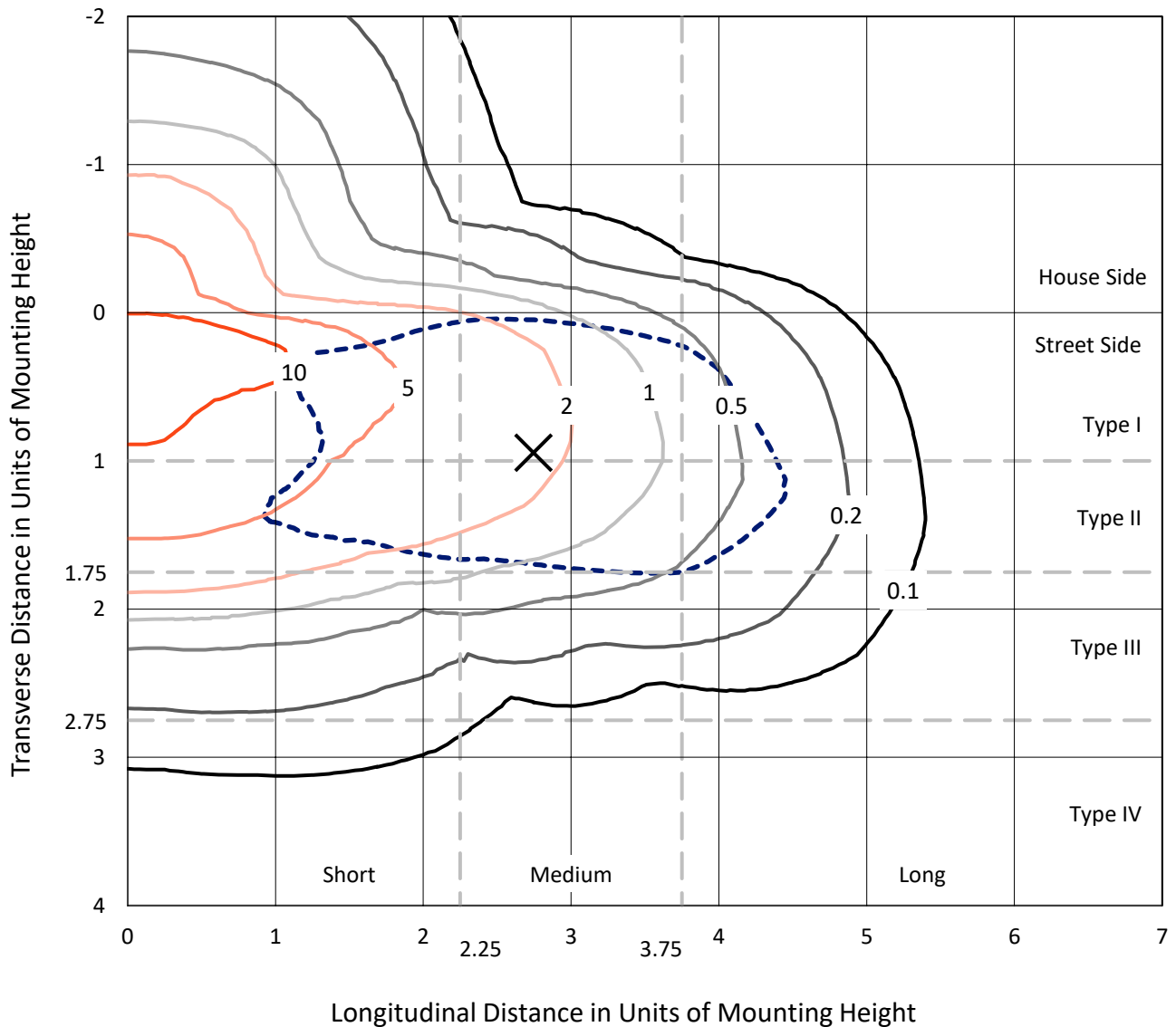
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

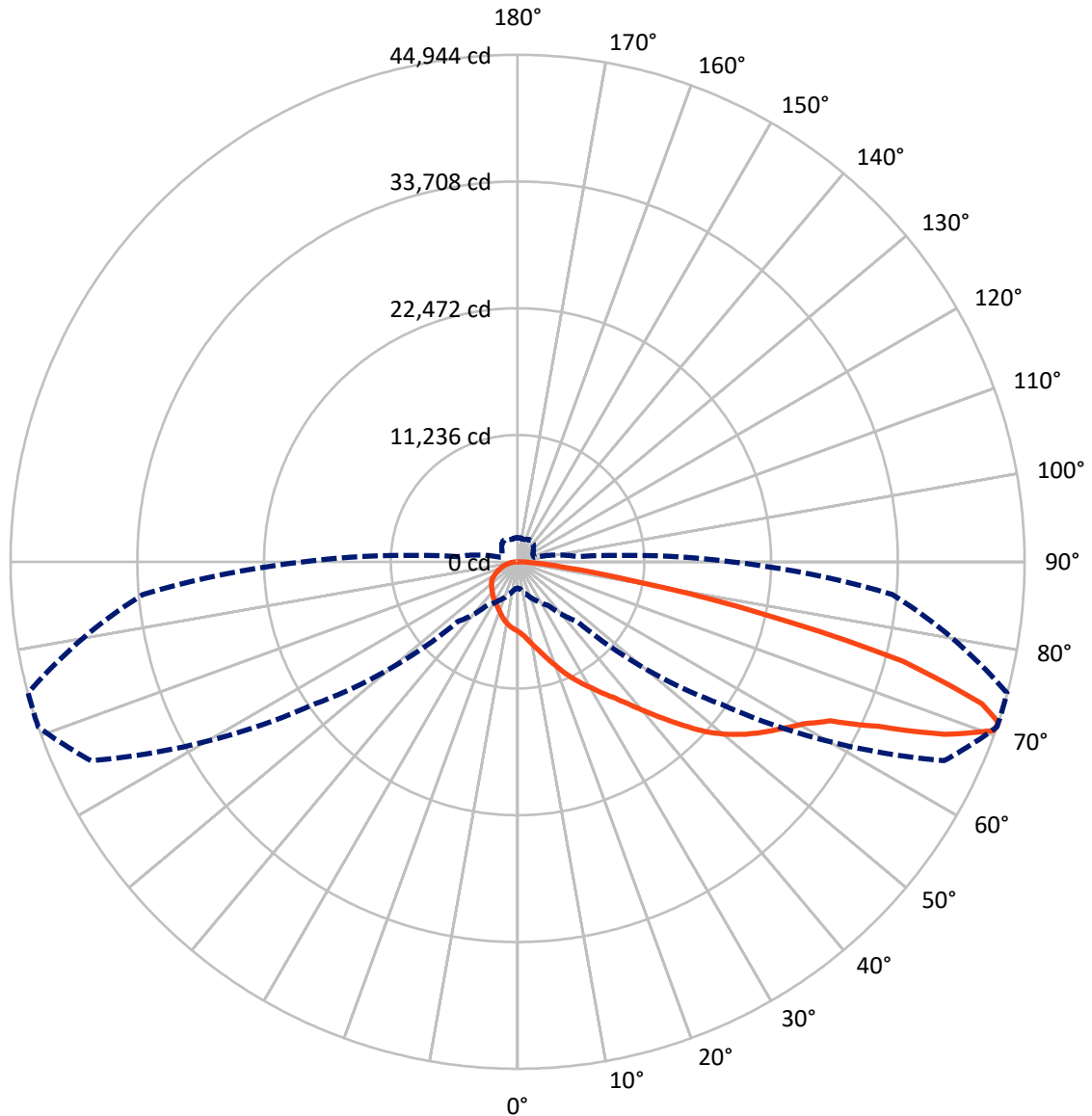
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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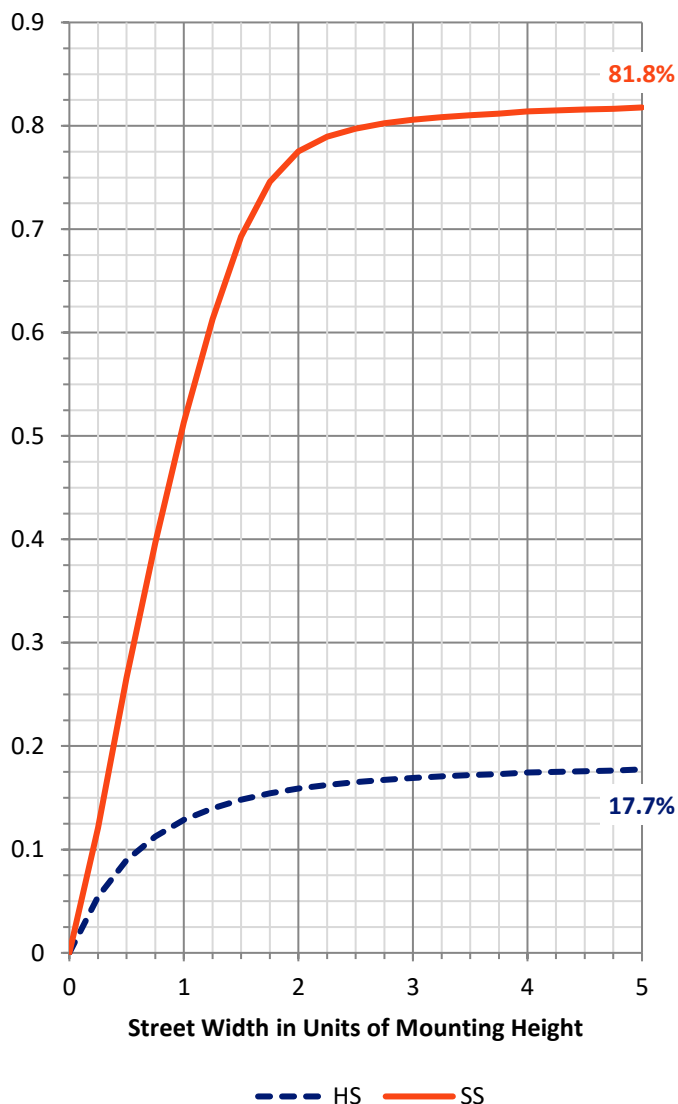
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9026.3	0.0	9026.3
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	41162.4	0.0	41162.4
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	50188.7	0.0	50188.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	618.5	1.2
10°-20°	2009.4	4.0
20°-30°	3511.5	7.0
30°-40°	5223.0	10.4
40°-50°	7695.4	15.3
50°-60°	10773.6	21.5
60°-70°	12049.9	24.0
70°-80°	7360.6	14.7
80°-90°	946.9	1.9
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°	50188.7	100.0
0°-180°	50188.7	100.0

**Coefficient of Utilization**

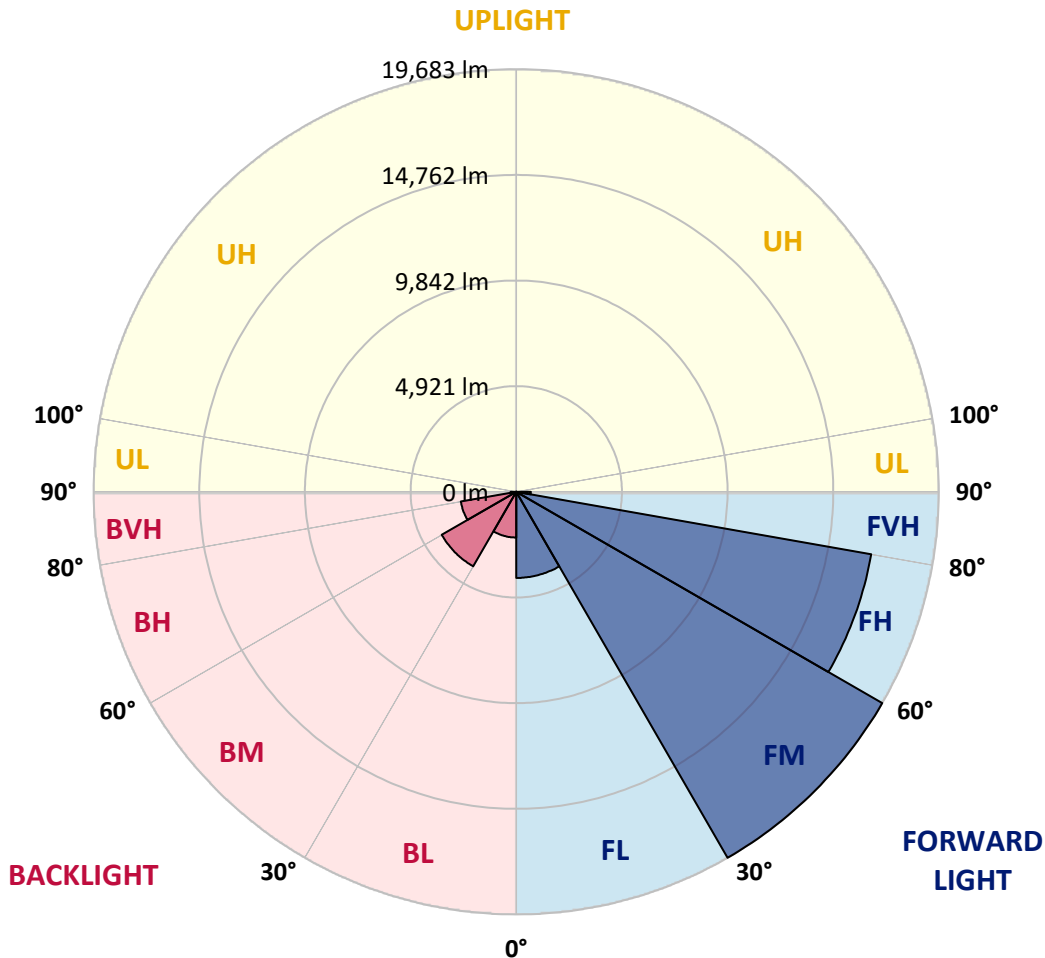


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4010.1	8.0			
FM (30°-60°)	19683.0	39.2			
FH (60°-80°)	16788.0	33.4			G5
FVH (80°-90°)	681.3	1.4			G4/750
BL (0°-30°)	2129.3	4.2	B3/2500		
BM (30°-60°)	4008.9	8.0	B3/5000		
BH (60°-80°)	2622.5	5.2	B4/5000		G4/5000
BVH (80°-90°)	265.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6159.7	6159.7	6159.7	6159.7	6159.7	6159.7	6159.7	6159.7	6159.7	6159.7	6159.7
2.5°	6838.3	6805.1	6808.0	6761.0	6700.4	6634.1	6540.3	6457.6	6391.4	6352.8	6239.6
5°	7577.6	7544.4	7503.0	7401.0	7356.8	7194.1	6987.3	6799.7	6656.2	6576.2	6350.0
7.5°	8176.1	8167.9	8156.8	8098.9	7985.8	7759.6	7583.0	7257.5	7045.1	6893.5	6507.3
10°	8545.7	8559.5	8567.8	8578.9	8532.0	8413.3	8170.6	7759.6	7489.2	7296.2	6711.4
12.5°	8733.3	8747.1	8794.0	8896.1	8959.6	8945.8	8747.1	8344.4	7972.0	7718.2	6929.3
15°	8849.2	8871.2	8954.0	9089.1	9301.6	9436.7	9340.2	8967.8	8559.5	8258.8	7188.6
17.5°	8976.1	9000.9	9092.0	9285.0	9563.6	9856.0	9960.9	9640.8	9196.7	8838.2	7478.2
20°	9047.8	9080.9	9210.6	9464.4	9789.8	10214.6	10562.2	10393.9	9908.5	9511.3	7812.0
22.5°	9163.7	9191.2	9301.6	9571.9	9960.9	10493.2	11163.5	11127.7	10700.2	10187.1	8178.9
25°	9478.1	9522.3	9577.4	9740.2	10115.3	10777.4	11662.9	11911.1	11467.0	10893.3	8515.4
27.5°	10071.2	10107.0	10104.3	10126.4	10338.7	11022.8	12095.9	12686.2	12228.3	11607.7	8840.9
30°	10747.0	10760.8	10771.9	10722.2	10769.1	11273.9	12493.2	13453.1	12995.2	12341.4	9125.0
32.5°	11569.1	11596.6	11502.8	11376.0	11337.4	11646.3	12821.4	14219.9	13902.7	13086.2	9406.4
35°	12540.1	12611.8	12421.4	12198.0	12040.7	12181.4	13262.8	15003.4	14832.3	14037.9	9778.8
37.5°	13648.9	13737.2	13560.7	13122.1	12898.7	12937.3	13839.3	15971.6	16007.4	15122.0	10333.3
40°	14556.4	14672.3	14677.9	14057.2	13717.9	13762.0	14570.3	17014.3	17425.3	16462.6	10987.0
42.5°	15155.0	15268.2	15386.8	15022.6	14666.8	14917.9	15422.7	18145.2	19019.7	18090.1	11900.0
45°	15811.6	15913.6	15979.9	15814.3	15615.8	16266.7	16451.5	19347.9	20718.9	19907.9	12898.7
47.5°	16572.9	16686.0	16749.5	16592.2	16517.8	17450.1	17560.5	20470.7	22534.0	21673.4	14002.0
50°	17588.1	17673.6	17640.4	17541.2	17524.6	18357.7	18625.2	21521.6	24031.8	23573.9	15146.8
52.5°	18851.4	18953.5	18989.3	18848.7	18785.2	19005.9	19483.2	22478.8	25394.6	25207.0	16368.8
55°	19615.6	19778.3	20324.5	20545.1	20696.9	19844.5	20407.2	23535.3	26616.5	26928.2	17681.9
57.5°	18636.3	18845.9	20067.9	21171.3	22597.5	21940.9	21717.4	24638.7	27838.5	28597.1	19254.1
60°	16247.4	16294.3	17869.4	19902.4	22771.2	24635.9	24451.1	26393.1	29162.6	30279.8	21325.8
62.5°	11271.1	11370.4	13232.4	16476.4	20625.2	25606.9	29101.9	29421.9	31060.4	32798.3	24362.9
65°	5812.1	5682.5	7378.9	10355.3	15549.5	23300.8	32870.0	34991.3	35176.1	36737.4	28638.5
67.5°	3577.8	3635.7	4430.1	6046.6	9194.0	16934.3	32475.6	41796.5	40822.7	41573.0	32608.0
70°	2686.8	2758.5	3304.7	4137.7	5605.3	9682.3	26117.3	43446.0	44805.9	44612.8	33816.1
71°	2336.4	2410.9	2979.2	3765.3	4708.7	7472.7	22004.3	41719.2	44943.9	44910.8	33361.0
72.5°	1991.6	2038.5	2482.7	3188.8	3969.4	5238.3	16531.6	37416.0	43026.7	44127.4	31736.2
75°	1564.0	1599.9	1798.6	2432.9	3125.3	3216.4	8871.2	28051.0	35338.8	37435.3	26420.7
77.5°	1274.4	1299.2	1401.3	1806.8	2410.9	2278.5	4653.5	18258.4	22139.6	24249.7	15563.3
80°	1012.3	1040.0	1100.7	1224.8	1806.8	1624.7	2220.6	9251.9	10694.6	10672.5	6212.1
82.5°	786.1	794.4	866.2	899.3	1235.8	1153.0	1202.7	3917.0	4339.1	4482.5	2242.7
85°	496.5	521.3	766.9	689.6	739.3	675.8	593.0	1555.7	1917.2	1889.5	896.5
87.5°	151.7	160.0	259.3	292.4	328.2	295.2	217.9	457.9	560.0	606.9	223.5
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°	6159.7	6159.7	6159.7	6159.7	6159.7	6159.7	6159.7	6159.7	6159.7	6159.7	6159.7
2.5°	6195.6	6165.2	6057.6	5969.4	5886.6	5795.5	5718.3	5696.2	5676.9	5668.7	5665.9
5°	6253.4	6162.4	5950.0	5776.3	5638.3	5511.5	5431.4	5395.6	5359.7	5359.7	5370.8
7.5°	6336.2	6170.7	5842.4	5583.2	5409.4	5290.7	5232.9	5227.3	5235.6	5243.8	5246.6
10°	6427.3	6165.2	5685.2	5362.5	5208.0	5152.8	5155.6	5202.5	5246.6	5279.7	5285.2
12.5°	6515.5	6132.1	5500.4	5155.6	5056.3	5067.3	5144.5	5249.4	5334.9	5381.8	5384.5
15°	6614.9	6079.7	5277.0	4959.8	4926.6	5012.1	5155.6	5315.6	5445.2	5522.5	5530.7
17.5°	6697.5	5991.4	5042.5	4769.4	4810.8	4968.0	5166.6	5373.5	5530.7	5627.3	5643.9
20°	6791.4	5878.3	4799.7	4587.4	4706.0	4918.3	5144.5	5368.0	5530.7	5624.5	5646.6
22.5°	6865.8	5718.3	4568.0	4438.4	4612.2	4857.7	5070.1	5249.4	5381.8	5431.4	5464.6
25°	6896.2	5516.9	4350.1	4317.0	4537.7	4758.4	4901.8	5003.8	5045.3	5039.7	5053.6
27.5°	6879.7	5285.2	4162.5	4220.4	4443.9	4603.9	4675.6	4667.3	4592.8	4523.9	4557.0
30°	6810.7	5009.4	4005.3	4121.2	4322.6	4410.8	4399.8	4292.2	4151.5	4021.9	4030.1
32.5°	6686.6	4711.5	3859.1	4008.1	4151.5	4190.1	4115.7	3975.0	3773.6	3605.3	3580.5
35°	6581.7	4427.3	3729.4	3878.4	3980.5	3961.2	3889.5	3707.4	3525.3	3376.4	3351.6
37.5°	6565.1	4184.6	3605.3	3732.2	3790.1	3762.5	3674.3	3519.8	3453.6	3340.5	3326.7
40°	6653.5	4013.6	3478.5	3577.8	3605.3	3583.2	3486.7	3398.5	3459.1	3431.6	3431.6
42.5°	6893.5	3922.5	3365.3	3423.3	3445.4	3461.9	3392.9	3318.4	3392.9	3266.0	3224.6
45°	7274.1	3925.3	3263.3	3271.5	3337.8	3395.7	3348.8	3238.5	3199.8	2946.0	2896.4
47.5°	7834.1	4019.1	3180.5	3128.1	3246.7	3343.3	3277.1	3117.0	2946.0	2777.8	2747.5
50°	8487.8	4187.4	3106.1	2979.2	3125.3	3277.1	3227.4	3039.8	2863.3	2761.2	2741.9
52.5°	9213.3	4399.8	3015.0	2813.6	2976.4	3246.7	3238.5	3028.8	2786.1	2717.1	2700.6
55°	10109.8	4609.4	2902.0	2620.5	2844.0	3221.9	3208.1	2937.8	2769.5	2719.8	2714.3
57.5°	11152.5	4912.9	2739.2	2424.7	2692.3	3119.9	3089.5	2882.6	2714.3	2678.5	2675.7
60°	12832.4	5384.5	2507.5	2245.4	2537.8	2940.6	2979.2	2788.8	2626.1	2617.8	2615.1
62.5°	15042.0	6046.6	2267.5	2060.5	2358.5	2708.8	2819.2	2662.0	2532.3	2573.6	2579.2
65°	18092.9	6603.8	2019.2	1903.3	2159.9	2485.4	2667.4	2543.3	2427.5	2507.5	2507.5
67.5°	20081.7	6614.9	1793.0	1740.6	1958.5	2297.8	2507.5	2402.6	2292.3	2427.5	2432.9
70°	19667.9	5795.5	1605.5	1569.6	1762.7	2096.4	2330.9	2248.1	2121.3	2242.7	2198.5
71°	19000.4	5340.4	1530.9	1503.4	1685.4	1999.9	2248.1	2179.2	2052.3	2132.3	2107.4
72.5°	17935.6	4637.0	1409.6	1415.1	1569.6	1878.5	2132.3	2060.5	1933.7	1977.9	1969.6
75°	15160.6	4049.4	1205.4	1230.2	1348.9	1671.6	1900.6	1845.5	1715.8	1715.8	1707.5
77.5°	9478.1	2830.2	1001.3	1015.1	1144.7	1431.6	1633.0	1586.1	1462.0	1420.6	1409.6
80°	3536.3	1462.0	783.4	800.0	879.9	1128.2	1351.6	1307.5	1180.6	1133.7	1089.6
82.5°	1337.8	733.7	576.5	562.7	648.2	860.7	1059.2	1006.9	907.6	794.4	761.3
85°	504.8	364.1	353.1	342.0	380.7	510.3	656.5	645.5	540.7	460.6	452.4
87.5°	132.4	118.6	137.9	102.0	107.6	96.5	99.3	41.3	19.3	8.3	5.5
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)