

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: P317461

Luminaire Tested: **GAN-SA7D-740-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7D-740-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57176 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

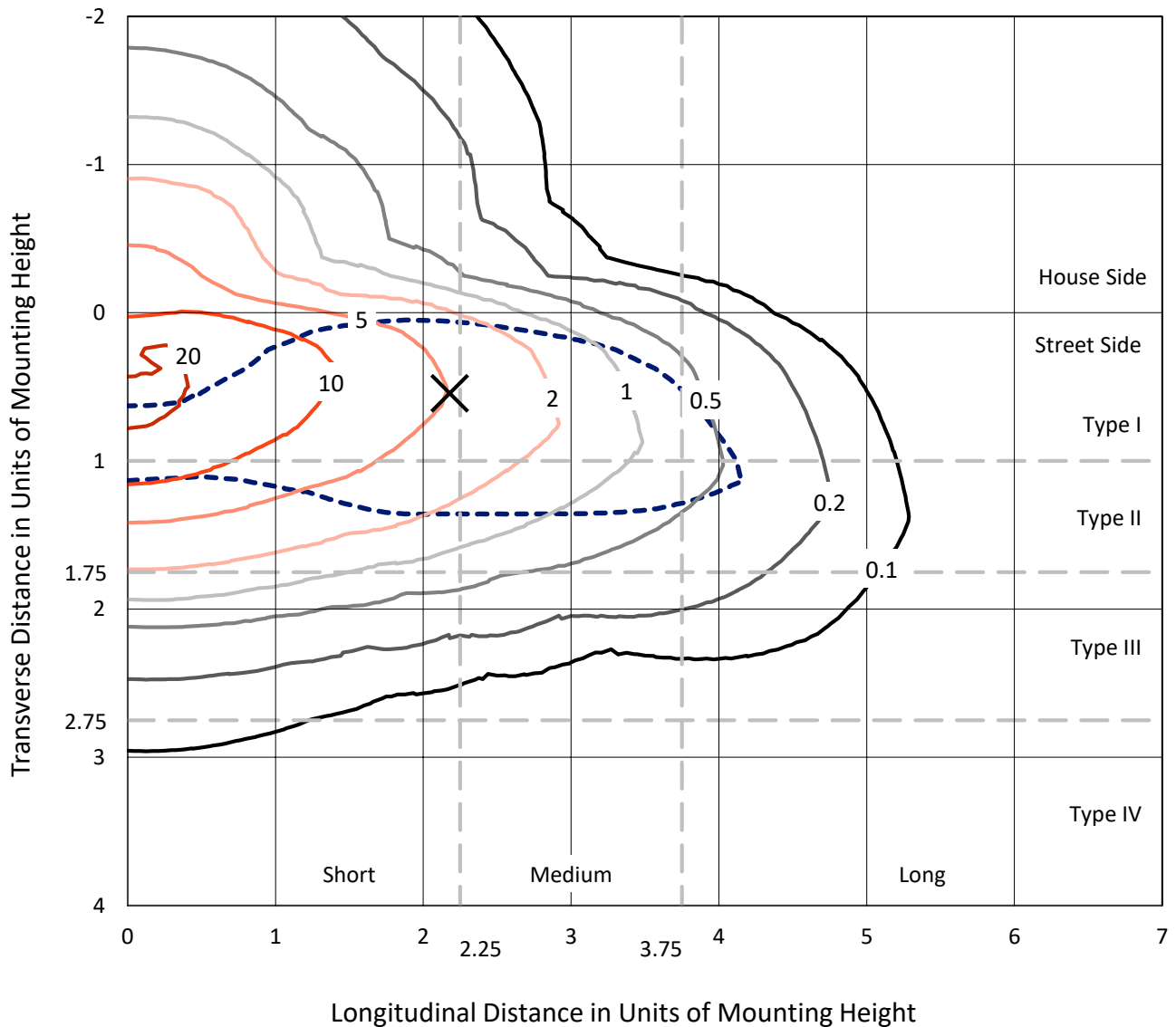
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

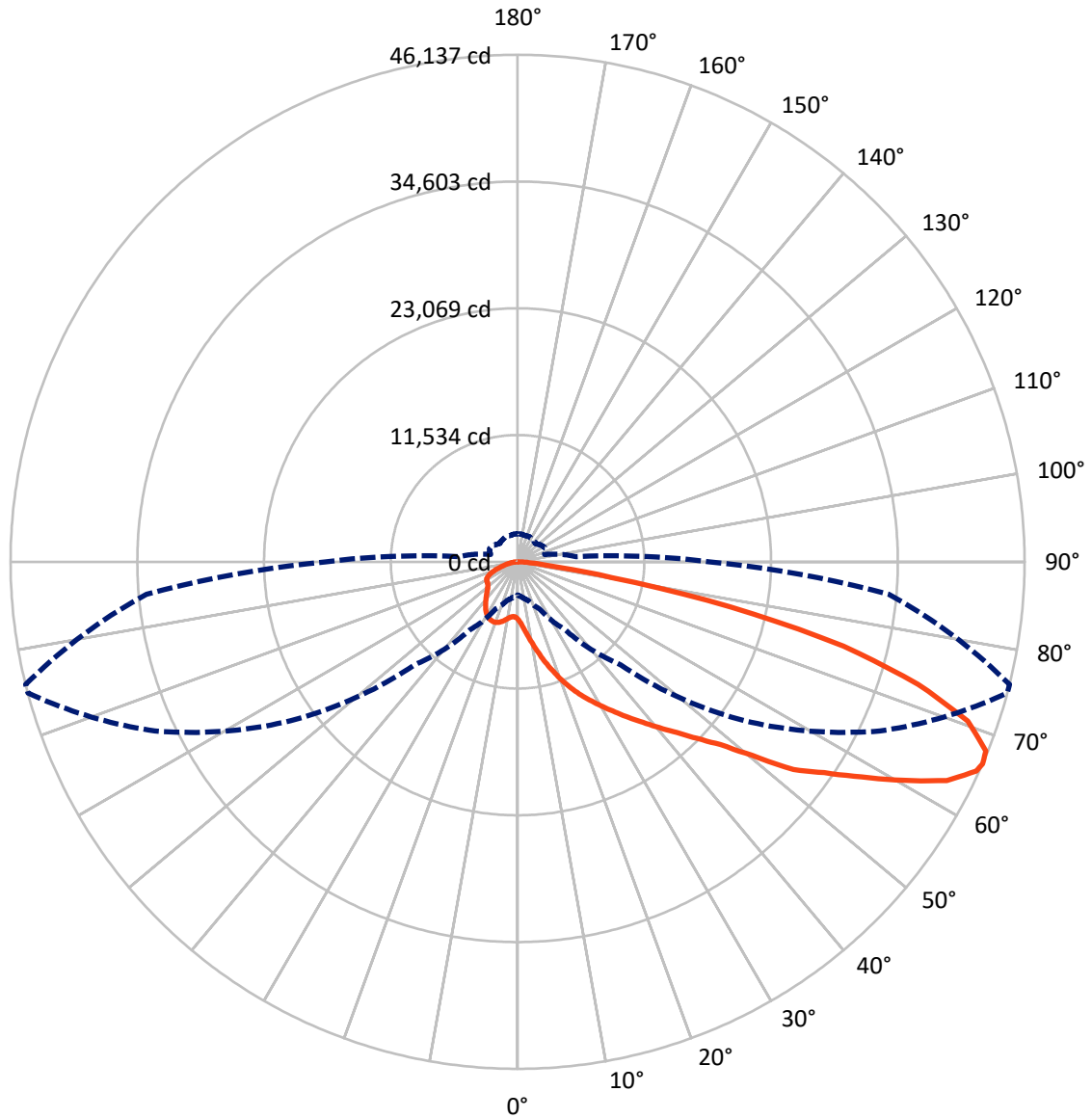
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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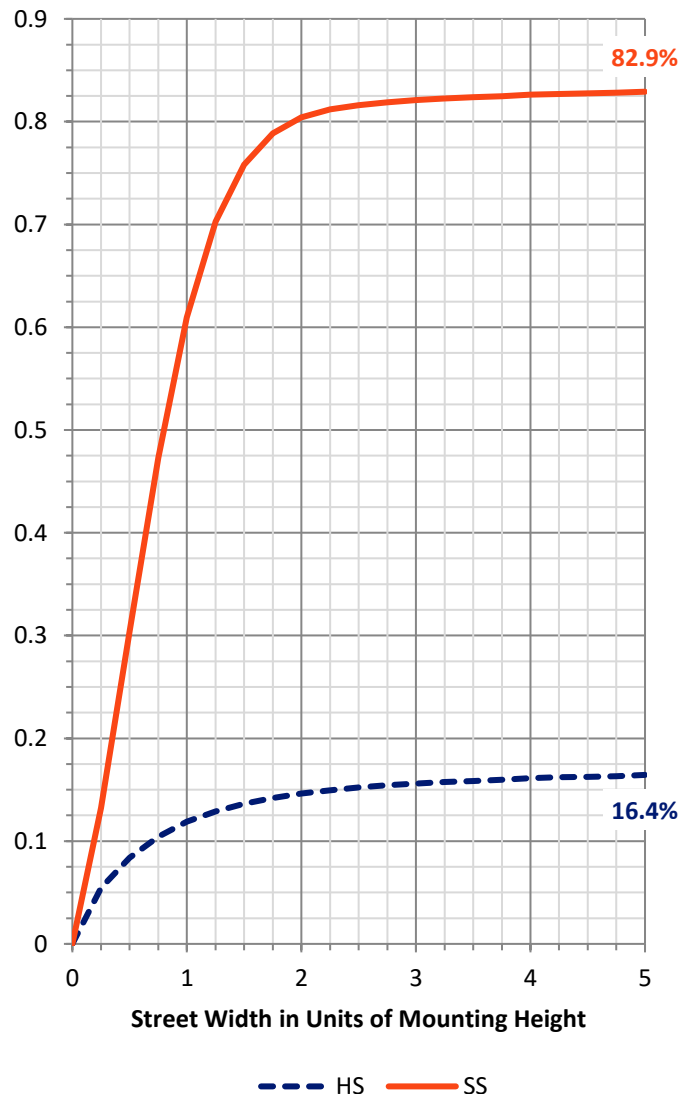
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9620.8	0.0	9620.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	47555.2	0.0	47555.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	57176.0	0.0	57176.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	631.4	1.1
10°-20°	2493.4	4.4
20°-30°	4845.3	8.5
30°-40°	7908.6	13.8
40°-50°	10805.1	18.9
50°-60°	12585.8	22.0
60°-70°	11283.4	19.7
70°-80°	5702.1	10.0
80°-90°	920.8	1.6
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°	57176.0	100.0
0°-180°	57176.0	100.0

**Coefficient of Utilization**

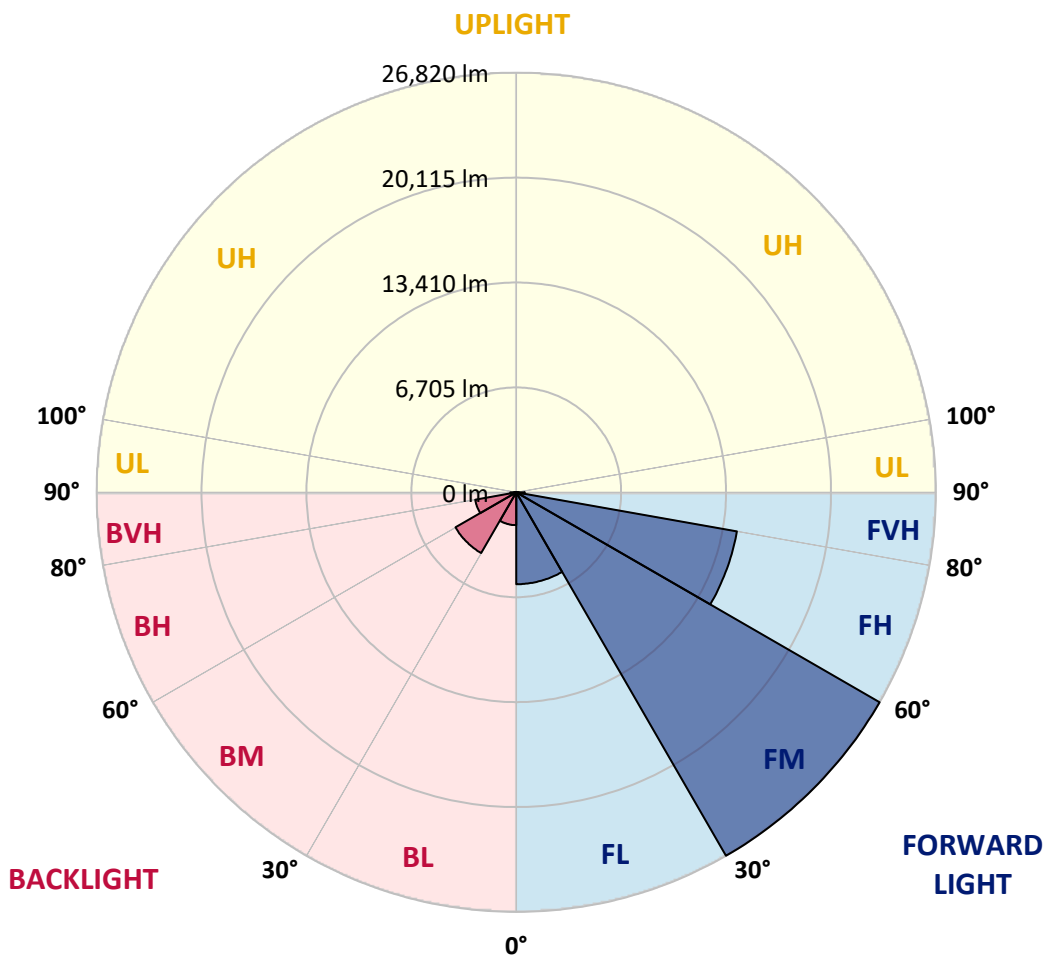


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5871.8	10.3			
FM (30°-60°)	26819.5	46.9			
FH (60°-80°)	14320.1	25.0			G5
FVH (80°-90°)	543.8	1.0			G4/750
BL (0°-30°)	2098.3	3.7	B3/2500		
BM (30°-60°)	4480.0	7.8	B3/5000		
BH (60°-80°)	2665.4	4.7	B4/5000		G4/5000
BVH (80°-90°)	377.0	0.7			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5
2.5°	6931.5	6826.7	6817.0	6663.7	6628.7	6335.6	6120.2	5895.0	5638.8	5588.3	5386.4
5°	8903.7	8893.9	8760.0	8509.6	8313.6	7812.8	7317.8	6793.7	6219.2	6126.0	5671.8
7.5°	10677.8	10662.3	10559.4	10289.6	10006.2	9390.9	8684.3	7880.7	6949.0	6811.2	6058.1
10°	12024.9	12019.1	11984.1	11786.1	11545.4	10955.4	10175.1	9078.3	7797.2	7609.0	6541.4
12.5°	13065.3	13076.9	13100.2	13030.4	12915.8	12413.1	11613.4	10347.8	8701.8	8515.4	7079.1
15°	13769.9	13804.8	13925.2	14024.2	14084.4	13775.7	13001.2	11646.4	9715.0	9491.8	7675.0
17.5°	14125.1	14163.9	14371.6	14670.6	14946.2	14915.1	14299.8	12884.8	10687.5	10472.0	8315.5
20°	14431.8	14460.9	14693.8	15052.9	15540.1	15755.6	15410.1	14076.6	11753.1	11496.9	8994.9
22.5°	15320.8	15357.7	15427.6	15631.4	16062.3	16458.3	16291.3	15204.3	12729.5	12490.7	9639.3
25°	17036.7	17081.4	16929.9	16757.2	16838.7	17114.3	17145.4	16233.1	13719.4	13449.6	10332.3
27.5°	19103.9	19168.0	18909.8	18465.3	18077.1	17970.4	17933.5	17075.5	14664.7	14352.2	11017.5
30°	21128.5	21239.1	20903.3	20326.8	19614.4	19113.6	18742.9	17900.5	15596.4	15297.5	11663.8
32.5°	23106.4	23061.8	22574.6	22011.6	21177.0	20550.0	19653.3	18785.6	16644.6	16301.0	12306.3
35°	24461.3	24476.8	24024.5	23356.8	22561.0	22079.6	20872.2	19740.6	17714.1	17397.7	13036.2
37.5°	25614.3	25542.4	25030.0	24406.9	23721.7	23516.0	22298.9	20792.7	18873.0	18527.4	13812.6
40°	25998.6	25915.1	25579.3	25130.9	24581.6	24564.1	23873.1	21984.5	20183.2	19841.5	14688.0
42.5°	25765.7	25658.9	25521.1	25398.8	25229.9	25307.6	25352.2	23382.0	21623.4	21241.0	15701.3
45°	24905.8	24744.7	24841.7	25107.6	25474.5	25913.2	26687.7	24929.1	23236.5	22916.2	16891.1
47.5°	23583.9	23438.3	23741.1	24309.9	25307.6	26417.9	27951.3	26637.2	25162.0	24843.7	18585.7
50°	21724.4	21767.1	22199.9	23234.5	24742.7	26650.8	29508.0	28898.5	27961.0	27664.0	20897.5
52.5°	18673.0	18680.8	19899.8	21598.2	23741.1	26530.4	30371.8	31788.8	31783.0	31423.9	23098.6
55°	15839.1	16011.8	16976.5	19234.0	22118.4	26049.1	30975.5	33194.1	34292.8	33871.5	25150.3
57.5°	13071.1	13172.1	14086.3	16353.5	19802.7	24766.0	31594.7	34880.9	37184.9	36919.0	27700.9
60°	9922.7	10078.0	11023.3	13117.7	16840.7	22489.2	31652.9	36641.4	40642.0	40374.1	30548.4
62.5°	6440.4	6708.3	7593.4	9555.9	13257.5	19214.6	30301.9	37792.5	43918.5	43823.4	33075.7
65°	3701.6	3903.5	4518.8	6032.8	9146.3	15103.4	27089.5	37349.9	45935.2	45880.9	34021.0
66°	3024.2	3150.3	3622.0	4714.8	7546.9	13263.3	25222.2	36416.3	46135.2	46137.1	33912.3
67.5°	2418.6	2474.9	2686.4	3375.5	5568.9	10512.8	21885.5	34356.8	45886.7	45954.7	33211.6
70°	2001.2	2030.4	2096.3	2263.3	3039.7	6339.5	15534.3	29005.3	43392.5	43444.9	30476.6
72.5°	1795.5	1813.0	1838.2	1861.5	2144.9	3542.4	9487.9	23203.5	38044.8	38112.8	26309.2
75°	1626.6	1636.3	1632.4	1634.4	1799.4	2257.5	4903.1	17324.0	30762.0	30626.1	20154.1
77.5°	1428.6	1438.3	1418.9	1422.8	1591.7	1735.3	2439.9	12127.8	20759.7	19800.8	11355.2
80°	1207.3	1215.1	1207.3	1220.9	1385.9	1310.2	1418.9	6822.8	9179.3	8682.4	4037.4
82.5°	912.3	945.3	968.6	1022.9	1141.3	931.7	949.2	2657.3	2795.1	2661.2	1238.4
85°	399.9	487.2	729.8	782.2	857.9	559.0	623.1	1083.1	1137.5	1102.5	450.3
87.5°	104.8	114.5	361.0	454.2	475.6	252.3	324.2	493.0	520.2	493.0	149.5
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°	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5
2.5°	5279.7	5184.6	5013.8	4862.4	4747.8	4670.2	4592.6	4553.7	4530.4	4507.1	4511.0
5°	5448.6	5256.4	4963.3	4755.6	4639.1	4565.4	4526.6	4511.0	4501.3	4478.0	4478.0
7.5°	5702.8	5431.1	5027.4	4813.8	4722.6	4666.3	4643.0	4635.3	4623.6	4596.4	4600.3
10°	6023.1	5642.7	5161.3	4953.6	4870.1	4808.0	4775.0	4763.4	4742.0	4711.0	4714.8
12.5°	6399.7	5904.7	5337.9	5120.5	5019.6	4936.1	4881.8	4848.8	4811.9	4771.1	4773.1
15°	6811.2	6190.0	5528.1	5270.0	5132.2	5015.7	4928.4	4872.1	4813.8	4763.4	4761.4
17.5°	7228.5	6465.7	5673.7	5351.5	5165.2	5011.8	4893.4	4806.1	4734.3	4672.1	4666.3
20°	7678.8	6714.1	5755.3	5343.7	5103.1	4920.6	4763.4	4654.7	4575.1	4513.0	4503.3
22.5°	8136.9	6947.1	5768.8	5264.2	4965.2	4742.0	4577.0	4456.7	4375.2	4311.1	4287.8
25°	8556.2	7127.6	5712.5	5110.8	4773.1	4532.4	4371.3	4249.0	4183.0	4107.3	4084.0
27.5°	8938.6	7253.8	5600.0	4914.8	4557.6	4320.8	4169.4	4064.6	3992.8	3934.5	3915.1
30°	9282.2	7321.7	5415.6	4681.8	4336.3	4120.9	3992.8	3920.9	3858.8	3785.1	3771.5
32.5°	9608.3	7321.7	5178.8	4427.6	4117.0	3944.2	3868.5	3823.9	3754.0	3682.2	3662.8
35°	9934.4	7277.0	4899.2	4161.6	3915.1	3818.1	3814.2	3761.8	3655.0	3558.0	3532.7
37.5°	10277.9	7185.8	4584.8	3913.2	3750.1	3761.8	3794.8	3678.3	3526.9	3389.1	3352.2
40°	10666.1	7059.6	4258.7	3697.7	3612.3	3736.5	3742.4	3558.0	3262.9	3136.8	3103.8
42.5°	11122.3	6933.5	3955.9	3507.5	3503.6	3660.8	3643.4	3297.9	3121.2	3057.2	3039.7
45°	11722.1	6861.7	3668.6	3327.0	3418.2	3538.6	3474.5	3154.2	3080.5	3043.6	3028.1
47.5°	12667.4	6898.5	3404.6	3183.3	3332.8	3416.3	3160.0	3096.0	3043.6	2998.9	2983.4
50°	13851.4	6877.2	3191.1	3084.3	3235.8	3288.2	3018.4	3020.3	2993.1	2942.7	2919.4
52.5°	14742.4	6710.3	3053.3	3028.1	3150.3	3061.1	2929.1	2946.5	2932.9	2859.2	2834.0
55°	15602.3	6566.6	2983.4	3006.7	3088.2	2777.7	2824.2	2866.9	2853.4	2781.5	2769.9
57.5°	16671.8	6539.4	2940.7	3012.5	3035.8	2636.0	2723.3	2779.6	2769.9	2738.8	2733.0
60°	17982.0	6547.2	2901.9	3022.2	2977.6	2531.1	2628.2	2700.0	2705.8	2700.0	2696.1
62.5°	18702.1	6335.6	2804.8	2995.1	2874.7	2439.9	2529.2	2634.0	2636.0	2647.6	2645.7
65°	18090.7	5702.8	2624.3	2899.9	2702.0	2364.2	2443.8	2558.3	2529.2	2581.6	2581.6
66°	17496.7	5337.9	2535.0	2837.8	2628.2	2335.1	2416.6	2519.5	2482.6	2554.4	2554.4
67.5°	16283.6	4722.6	2373.9	2705.8	2523.4	2294.3	2385.6	2455.4	2405.0	2511.7	2504.0
70°	14066.9	3653.1	2049.8	2406.9	2350.6	2234.2	2342.9	2327.3	2253.6	2416.6	2385.6
72.5°	11859.9	2775.7	1646.0	2014.8	2088.6	2158.5	2282.7	2164.3	2071.1	2185.6	2117.7
75°	9202.6	2086.6	1300.5	1566.4	1764.4	2040.1	2210.9	1976.0	1842.1	1830.4	1793.5
77.5°	4974.9	1432.5	1030.7	1195.7	1401.4	1892.5	2162.3	1774.1	1572.3	1525.7	1496.6
80°	1970.2	931.7	749.3	906.5	980.2	1679.0	2045.9	1539.3	1296.6	1250.0	1205.4
82.5°	813.3	551.3	483.3	607.6	638.6	1436.4	1836.2	1261.7	1001.6	1385.9	1471.3
85°	349.4	302.8	287.3	314.5	361.0	1007.4	1461.6	962.8	1081.2	964.7	766.7
87.5°	104.8	128.1	122.3	120.3	132.0	240.7	778.4	535.7	793.9	300.9	225.2
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)