

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: LUMARK

Report Number: P395120

Luminaire Tested: **LAS100S-T3-Switch-6**

Issue Date: 5/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LAS100S-T3-Switch-6  
Description: AREA SITE LARGE HOUSING, TYPE III, WATTAGE SWITCH ON POSTION 6  
Light Source: (288) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19527 lumens  
Efficiency: N/A  
Efficacy: 158.2 lumens/watt  
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

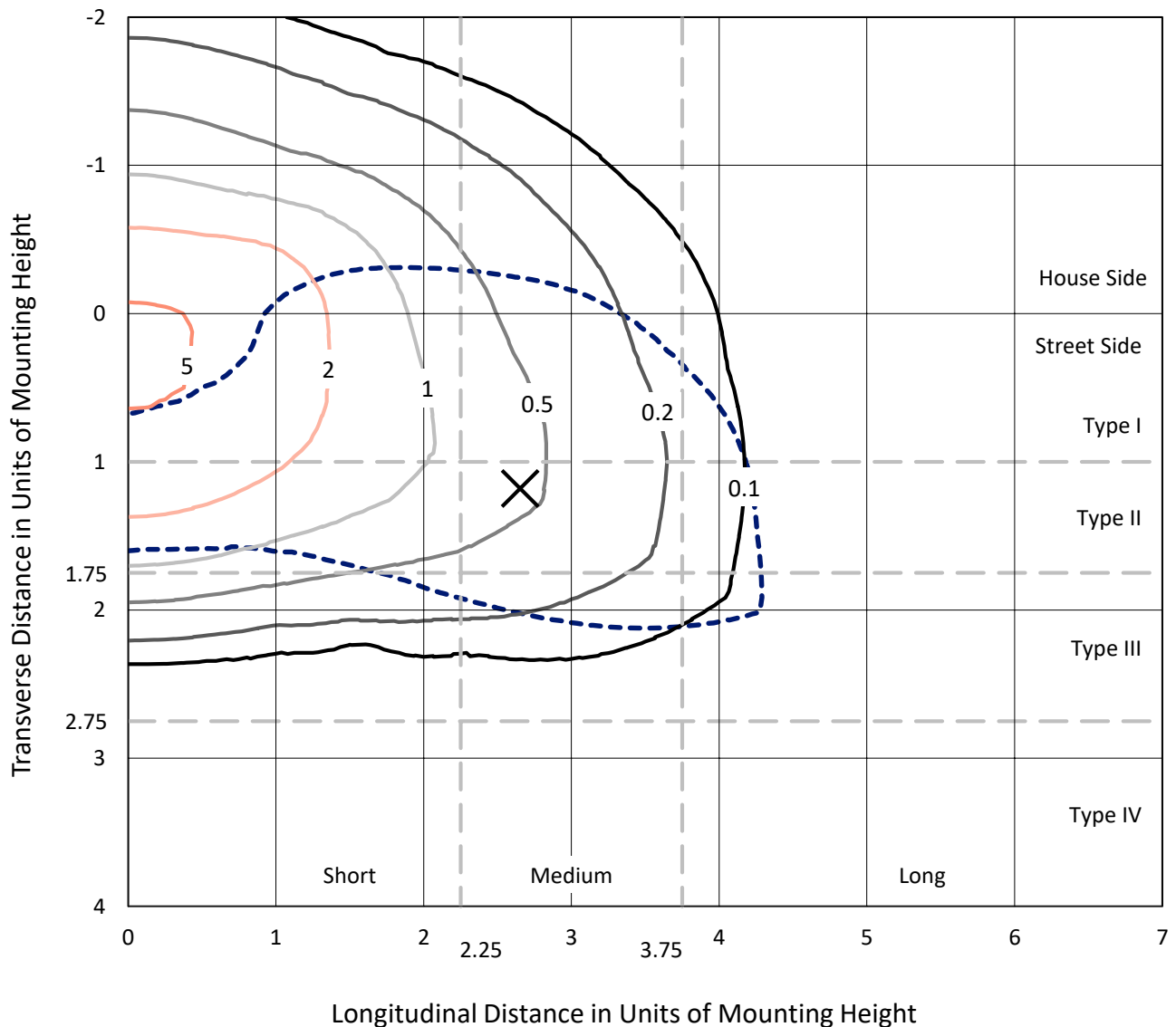
Input Watts (W): 123.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

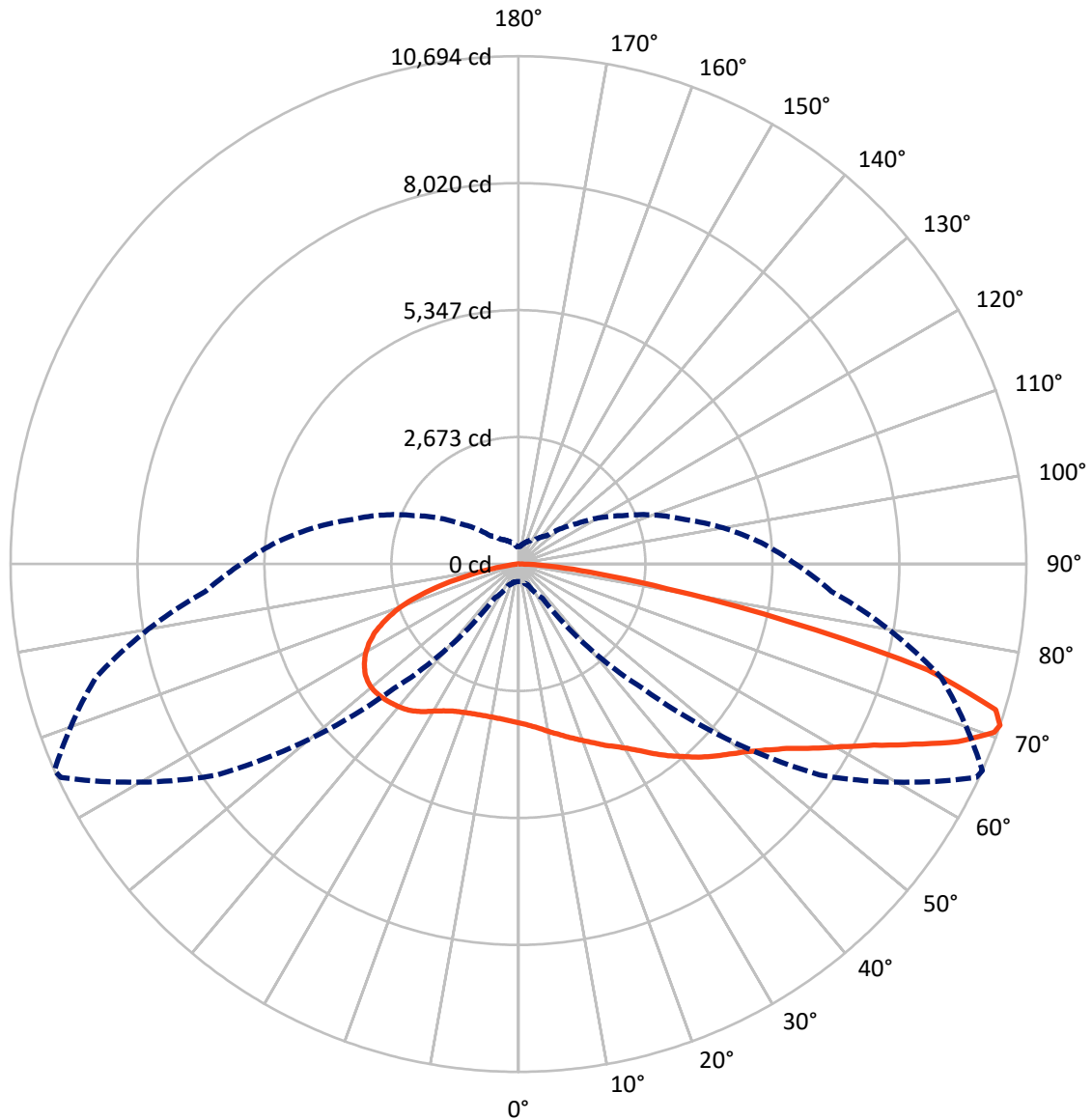
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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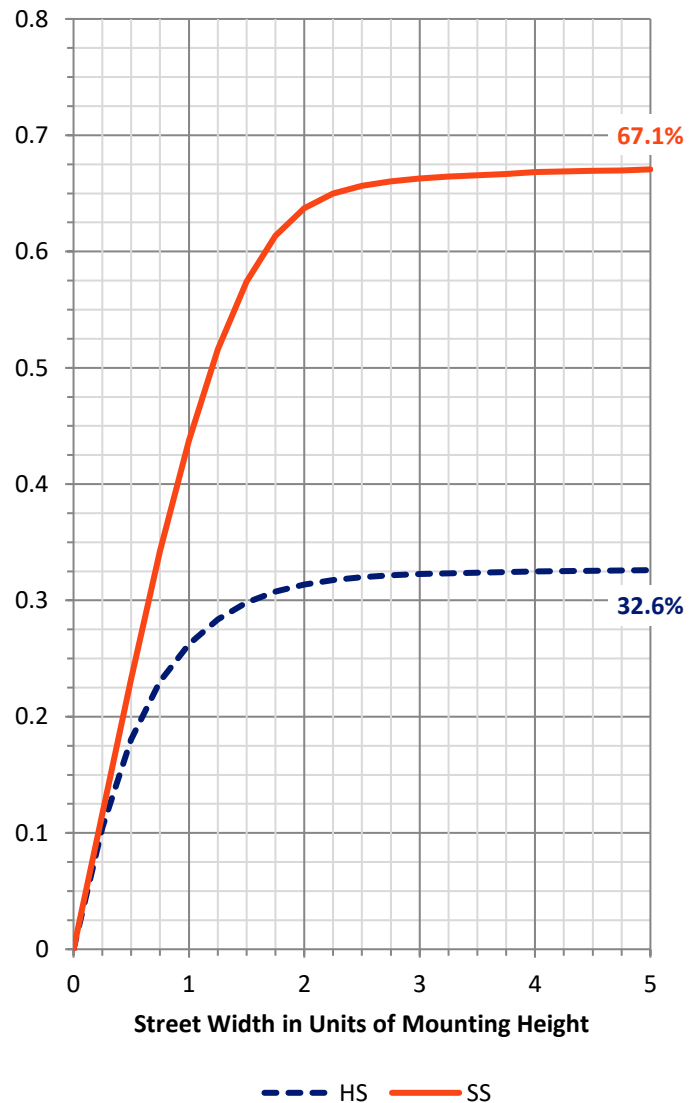
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6407.0	0.0	6407.0
	% Fixture	32.8	0.0	32.8
<b>Street Side</b>	Lumens	13120.0	0.0	13120.0
	% Fixture	67.2	0.0	67.2
<b>Total</b>	Lumens	19527.0	0.0	19527.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.1	1.6
10°-20°	971.3	5.0
20°-30°	1674.8	8.6
30°-40°	2515.5	12.9
40°-50°	3393.1	17.4
50°-60°	4154.7	21.3
60°-70°	3922.2	20.1
70°-80°	2270.0	11.6
80°-90°	304.2	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°	19527.0	100.0
0°-180°	19527.0	100.0



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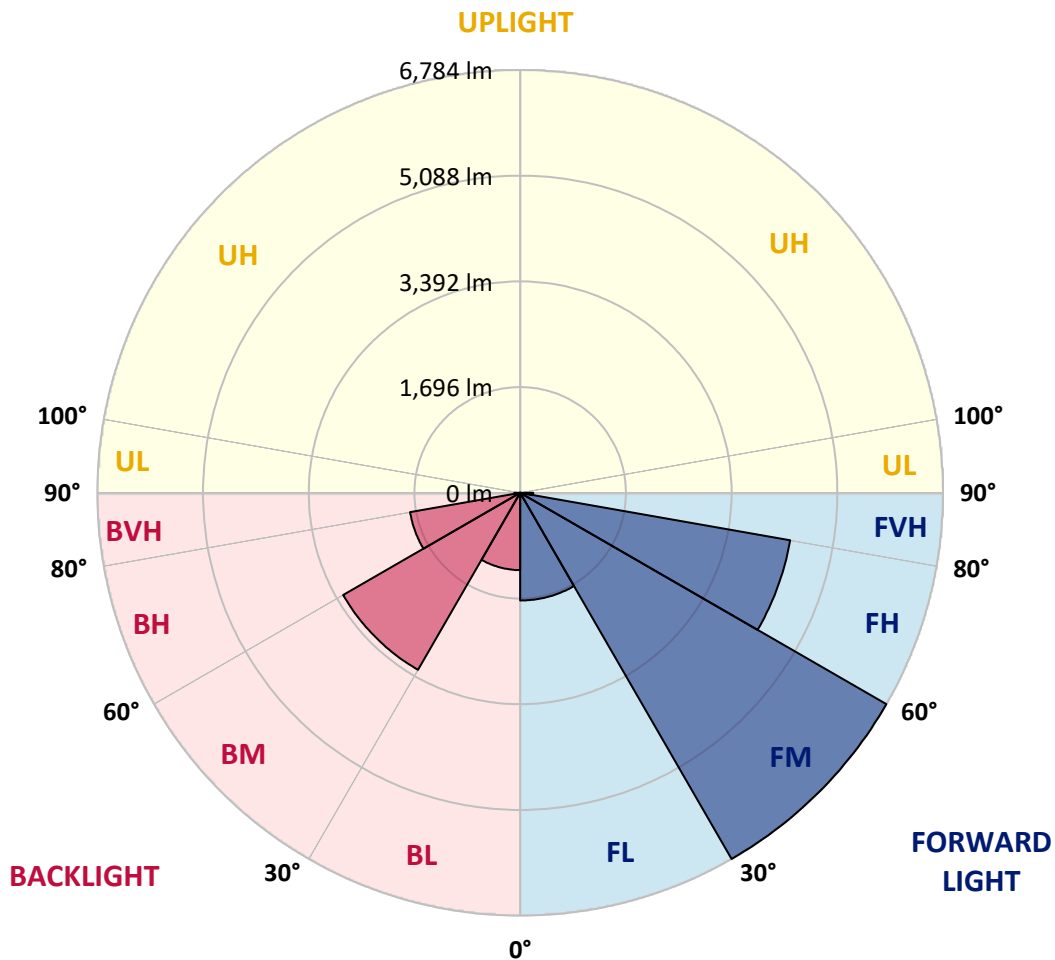
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1727.8	8.8			
FM	(30°-60°)	6783.7	34.7			
FH	(60°-80°)	4398.5	22.5			G2/5000
FVH	(80°-90°)	210.0	1.1			G2/225
BL	(0°-30°)	1239.5	6.3	B3/2500		
BM	(30°-60°)	3279.6	16.8	B3/5000		
BH	(60°-80°)	1793.8	9.2	B3/2500		G3/2500
BVH	(80°-90°)	94.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3
2.5°	3434.2	3432.5	3433.6	3429.7	3419.6	3415.7	3405.6	3388.7	3388.2	3373.6	3364.0
5°	3523.4	3521.7	3516.7	3510.5	3499.8	3494.8	3475.7	3444.3	3441.5	3420.7	3395.5
7.5°	3605.9	3605.3	3604.2	3592.4	3581.2	3568.3	3549.8	3517.2	3508.3	3478.5	3439.8
10°	3704.1	3699.0	3695.1	3685.0	3673.8	3657.5	3630.0	3593.0	3592.4	3552.0	3497.0
12.5°	3800.6	3802.9	3795.0	3785.5	3763.6	3749.0	3718.1	3683.9	3671.6	3631.1	3566.1
15°	3907.8	3908.9	3895.4	3887.6	3873.6	3852.2	3810.2	3770.9	3769.2	3717.6	3644.6
17.5°	4036.3	4041.9	4025.6	4015.0	3991.4	3959.4	3915.1	3872.4	3867.4	3815.2	3736.6
20°	4178.8	4172.1	4168.7	4147.4	4125.5	4083.4	4035.2	3986.4	3976.3	3919.6	3838.2
22.5°	4328.1	4326.4	4325.8	4296.7	4272.5	4213.1	4151.3	4101.9	4090.7	4034.0	3945.4
25°	4519.4	4525.0	4497.6	4474.5	4435.3	4358.4	4289.9	4219.2	4226.0	4162.6	4077.8
27.5°	4760.2	4760.2	4747.3	4710.8	4647.4	4539.6	4448.2	4356.7	4353.3	4301.7	4213.6
30°	5073.8	5071.6	5062.1	5027.3	4917.3	4792.2	4627.2	4518.9	4501.5	4433.0	4388.7
32.5°	5238.8	5247.2	5263.5	5256.2	5205.7	5084.5	4869.0	4689.5	4682.2	4605.3	4558.7
35°	5344.3	5352.7	5374.6	5396.5	5367.9	5290.4	5099.7	4922.9	4902.1	4788.2	4747.3
37.5°	5476.7	5479.0	5491.9	5522.2	5520.0	5461.0	5315.1	5141.7	5122.1	4991.4	4958.3
40°	5636.1	5636.7	5646.8	5668.7	5668.1	5614.2	5523.3	5360.0	5325.8	5217.5	5167.6
42.5°	5820.7	5805.6	5819.6	5839.2	5839.2	5798.3	5731.5	5572.7	5560.4	5432.4	5364.0
45°	5990.2	5984.0	5993.0	6003.7	6007.0	5986.8	5927.9	5789.9	5770.8	5635.5	5540.2
47.5°	6162.5	6156.3	6146.7	6183.8	6199.5	6224.2	6164.1	6002.0	5981.2	5801.1	5688.3
50°	6291.5	6287.6	6288.2	6327.4	6392.5	6458.2	6444.2	6248.3	6207.9	5972.2	5820.7
52.5°	6286.5	6281.4	6294.9	6389.2	6540.7	6705.1	6752.8	6550.2	6509.2	6185.5	5944.2
55°	6000.3	6014.9	6084.5	6315.7	6612.5	6972.7	7133.2	6929.0	6853.2	6436.3	6095.7
57.5°	5503.7	5475.6	5633.9	5975.0	6507.0	7152.3	7518.2	7361.1	7317.3	6730.3	6239.9
60°	4631.7	4627.2	4910.6	5370.7	6169.2	7211.8	7926.1	7881.8	7804.4	7078.2	6370.1
62.5°	3437.0	3453.3	3669.3	4402.2	5544.6	7030.0	8334.1	8480.0	8399.7	7489.0	6495.2
65°	2029.7	2034.7	2268.1	2961.7	4490.8	6537.9	8613.5	9222.9	9147.2	8017.0	6618.1
67.5°	851.3	901.8	1056.6	1518.5	3072.3	5630.5	8617.5	9972.6	9981.6	8621.9	6724.2
70°	417.5	423.7	487.1	620.1	1280.0	4387.0	8099.0	10575.8	10624.7	9144.4	6704.0
71°	370.4	370.9	397.8	492.1	879.3	3709.7	7742.6	10633.6	10693.7	9211.7	6613.6
72.5°	328.8	328.3	344.5	383.8	569.6	2599.2	6866.1	10423.2	10507.4	9011.4	6344.3
75°	264.3	266.0	277.8	299.1	396.2	1180.6	4996.4	8790.3	8905.3	7630.4	5287.1
77.5°	201.4	205.9	221.1	237.4	296.3	714.3	3165.4	5989.6	5798.3	4849.9	3786.6
80°	150.9	152.6	162.7	180.7	217.7	447.8	1777.7	3101.4	3182.8	2558.8	2051.0
82.5°	104.9	108.3	116.2	125.1	140.8	283.4	1078.0	1678.9	1666.6	1097.0	800.7
85°	62.3	65.1	67.9	74.6	80.2	144.8	596.5	845.1	823.8	283.4	168.3
87.5°	23.0	24.1	26.9	25.3	29.2	47.7	204.8	211.6	206.5	48.8	35.9
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°	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3
2.5°	3352.8	3348.9	3333.7	3316.3	3301.2	3290.0	3276.5	3266.4	3263.0	3252.9	3255.2
5°	3374.7	3362.4	3325.3	3290.0	3253.5	3222.6	3195.1	3173.8	3158.1	3146.3	3155.3
7.5°	3410.1	3387.1	3332.6	3272.0	3213.1	3163.2	3119.4	3077.9	3049.2	3039.7	3034.1
10°	3459.4	3428.0	3347.2	3261.4	3178.9	3104.2	3031.3	2980.8	2932.5	2912.9	2901.7
12.5°	3521.7	3476.3	3369.7	3260.2	3149.1	3042.0	2933.1	2856.8	2791.7	2770.4	2756.9
15°	3596.4	3539.1	3407.3	3266.4	3117.1	2960.6	2827.0	2723.2	2644.1	2614.4	2606.5
17.5°	3676.6	3610.4	3452.7	3277.6	3084.6	2883.7	2720.4	2594.7	2507.7	2473.5	2472.4
20°	3775.4	3700.7	3510.5	3300.1	3052.1	2808.0	2614.4	2477.4	2388.2	2344.5	2336.6
22.5°	3889.3	3804.0	3589.1	3325.9	3025.1	2731.1	2513.9	2357.4	2265.9	2226.6	2217.6
25°	4009.4	3916.8	3683.3	3368.5	3001.5	2667.1	2419.6	2258.0	2163.8	2120.0	2111.0
27.5°	4159.2	4057.1	3794.4	3433.6	2989.8	2607.1	2338.8	2164.9	2069.5	2018.4	2015.1
30°	4327.5	4227.6	3942.6	3509.9	2994.3	2558.8	2269.3	2083.0	1979.7	1930.3	1918.0
32.5°	4504.8	4410.0	4099.7	3614.9	3006.0	2514.5	2198.6	1999.9	1892.2	1839.4	1831.6
35°	4701.2	4611.5	4265.8	3709.7	3011.6	2458.4	2115.5	1916.9	1806.9	1760.9	1751.9
37.5°	4912.2	4809.0	4435.8	3784.9	2997.1	2387.7	2034.1	1842.2	1736.7	1695.8	1690.7
40°	5115.9	5002.6	4572.7	3837.1	2972.4	2318.1	1962.3	1777.1	1684.0	1649.2	1643.0
42.5°	5294.9	5168.1	4677.7	3878.6	2945.4	2255.8	1902.8	1729.4	1647.0	1616.6	1611.0
45°	5460.5	5312.3	4781.5	3915.6	2919.6	2199.7	1858.5	1694.1	1617.8	1590.8	1587.5
47.5°	5592.9	5443.1	4865.1	3940.9	2883.1	2155.3	1818.7	1663.2	1595.3	1574.6	1572.9
50°	5724.8	5557.5	4936.4	3944.8	2842.7	2111.6	1783.9	1635.2	1575.1	1561.1	1561.1
52.5°	5840.9	5658.6	4986.3	3917.9	2786.1	2062.2	1741.2	1603.7	1551.6	1547.6	1548.8
55°	5954.8	5752.3	4999.2	3854.5	2720.4	2012.8	1694.1	1561.1	1515.1	1517.9	1520.1
57.5°	6049.7	5794.4	4963.3	3746.2	2641.3	1943.2	1630.1	1493.8	1440.5	1442.1	1447.2
60°	6103.5	5787.6	4874.1	3612.1	2527.9	1851.2	1535.3	1386.0	1309.7	1295.7	1303.0
62.5°	6132.2	5743.3	4723.1	3435.3	2395.0	1729.4	1383.8	1210.4	1117.8	1125.7	1120.0
65°	6130.5	5664.2	4522.2	3220.4	2214.3	1529.7	1182.9	1001.6	939.4	919.2	917.5
67.5°	6091.2	5514.9	4234.9	2922.4	1970.7	1273.8	942.7	799.1	735.7	733.4	726.1
70°	5940.8	5275.3	3847.2	2585.2	1620.6	952.3	719.9	602.1	545.4	475.8	473.0
71°	5836.4	5132.8	3621.0	2412.9	1462.9	841.7	634.1	538.7	450.6	367.0	367.0
72.5°	5528.9	4867.9	3309.1	2143.0	1192.4	688.5	523.5	432.6	306.9	287.9	289.0
75°	4800.6	4162.0	2707.5	1609.4	806.4	472.5	365.3	283.4	210.4	228.9	235.1
77.5°	3609.8	3177.2	2012.3	1012.9	459.0	301.3	252.5	186.3	167.2	188.5	188.0
80°	2068.9	1973.0	1240.7	541.5	200.3	189.7	178.4	135.8	127.9	143.1	143.1
82.5°	1017.9	1093.7	677.9	202.0	92.0	110.5	114.5	94.8	89.2	96.5	98.8
85°	333.9	482.0	249.7	72.4	52.7	55.0	50.5	48.8	48.3	49.9	49.4
87.5°	48.3	87.0	35.9	28.1	21.9	19.1	15.7	14.6	12.3	10.7	10.1
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)