

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: McGRAW-EDISON

Report Number: P454145

Luminaire Tested: **GALN-SA5B-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 23327 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

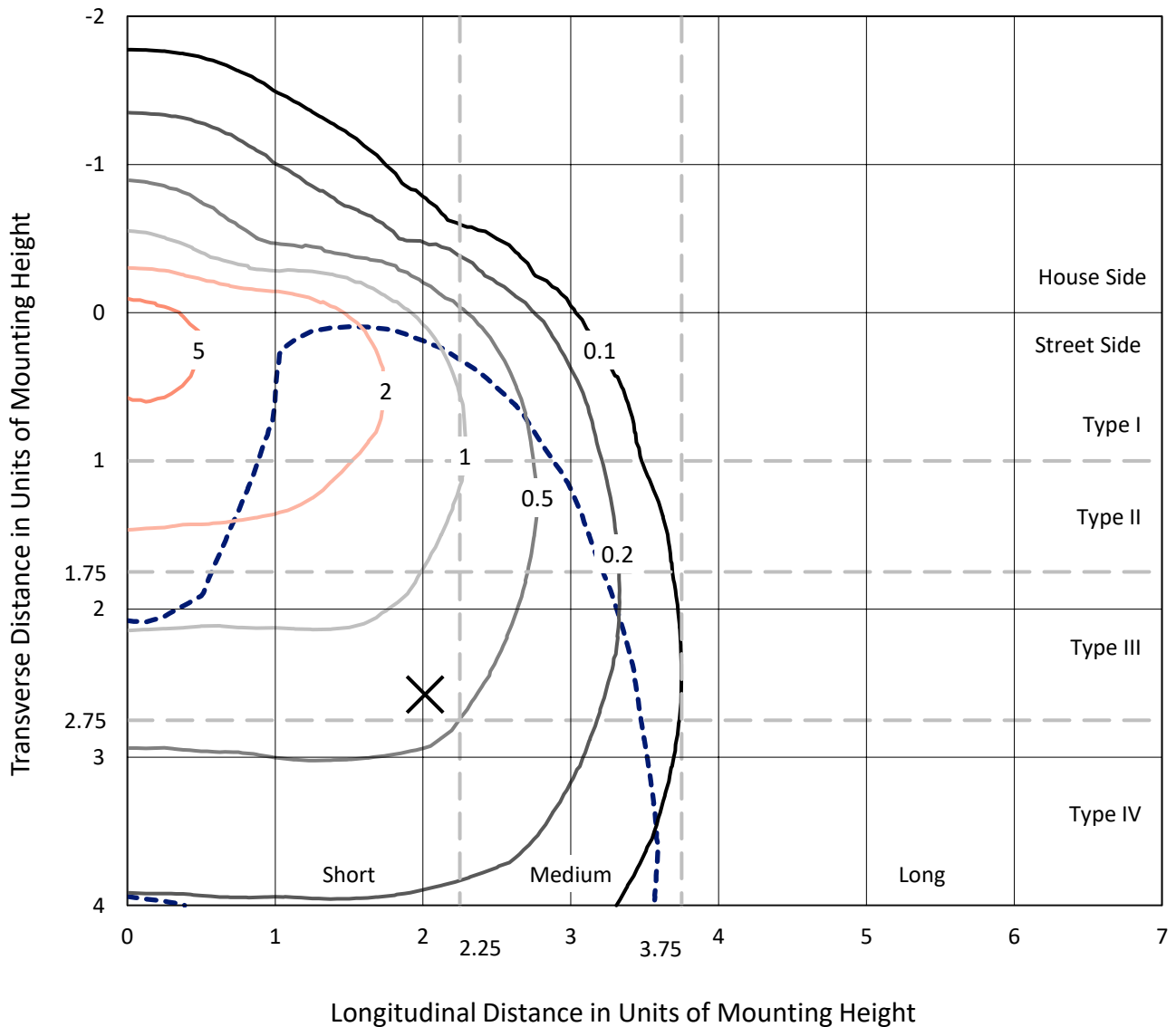
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

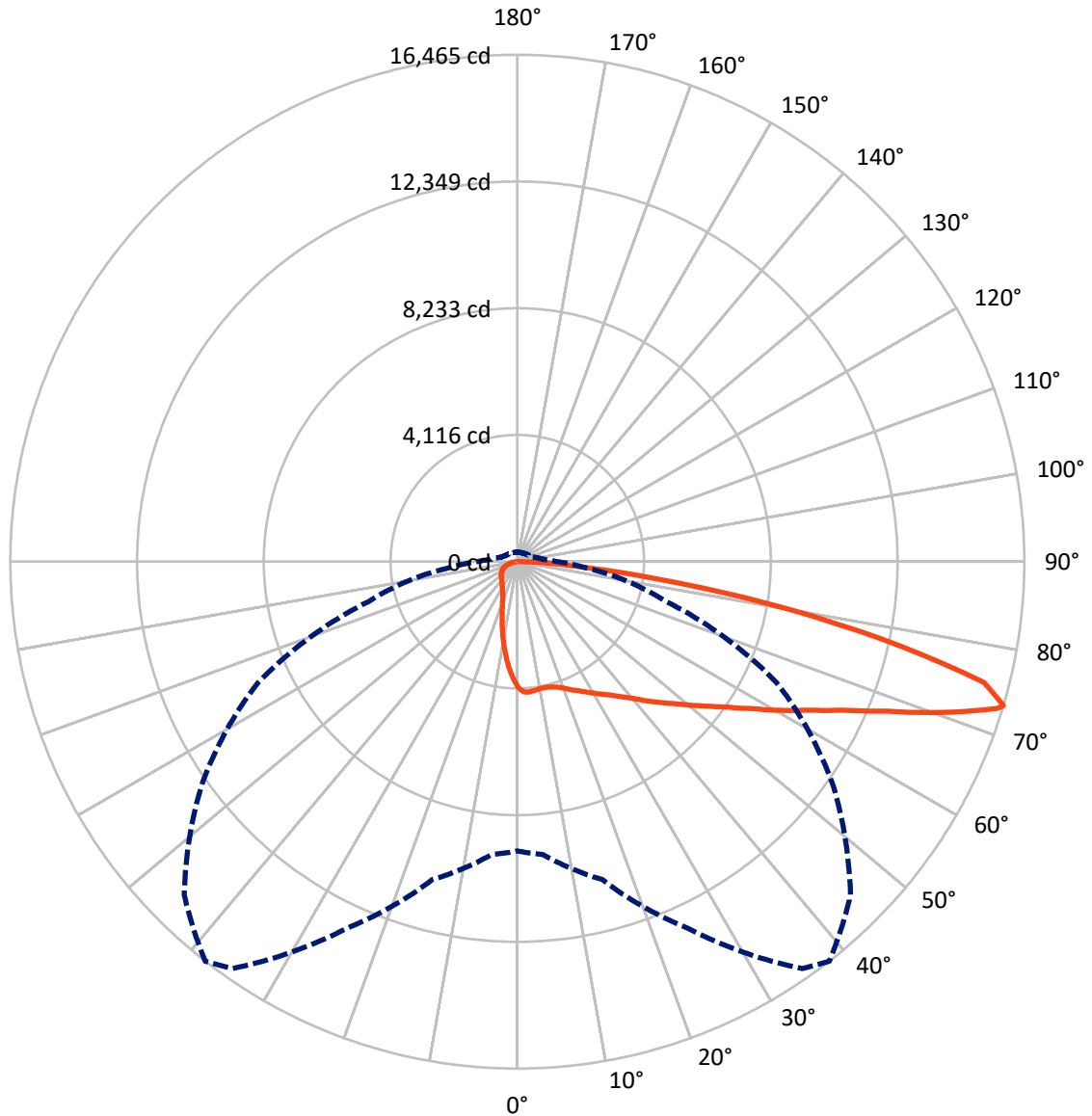
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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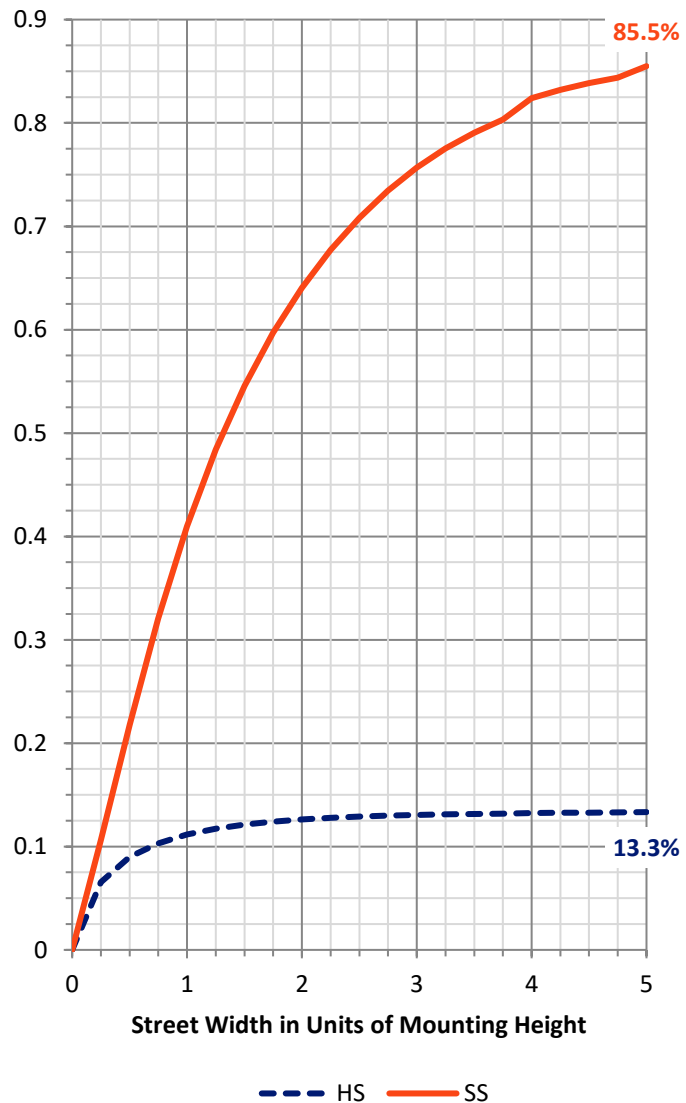
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3135.8	0.0	3135.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20191.2	0.0	20191.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	23327.0	0.0	23327.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.7	1.5
10°-20°	917.3	3.9
20°-30°	1428.4	6.1
30°-40°	2095.2	9.0
40°-50°	3108.0	13.3
50°-60°	4403.4	18.9
60°-70°	5585.9	23.9
70°-80°	4649.8	19.9
80°-90°	781.2	3.3
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°	23327.0	100.0
0°-180°	23327.0	100.0



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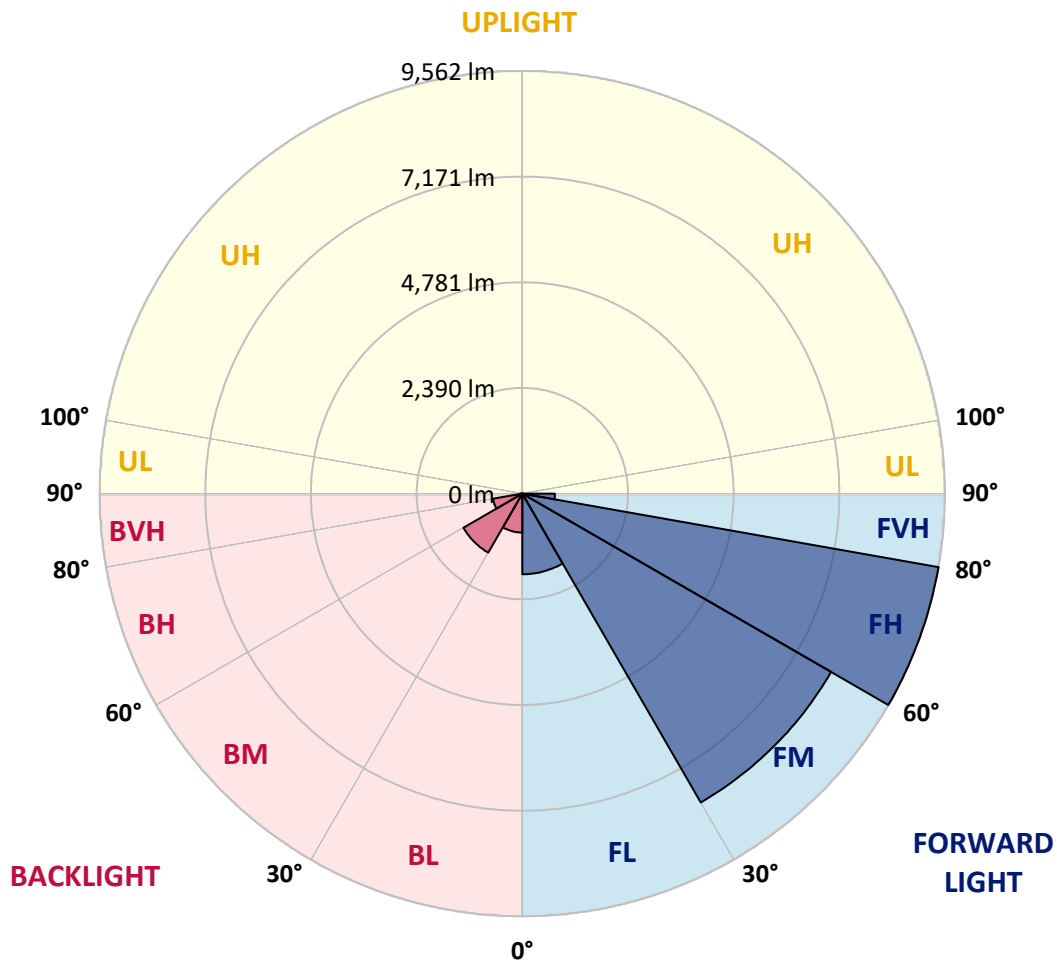
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1823.5	7.8			
FM	(30°-60°)	8067.1	34.6			
FH	(60°-80°)	9561.6	41.0			G4/12000
FVH	(80°-90°)	738.9	3.2			G4/750
BL	(0°-30°)	879.9	3.8	B2/1000		
BM	(30°-60°)	1539.5	6.6	B2/2500		
BH	(60°-80°)	674.0	2.9	B2/1000		G2/1000
BVH	(80°-90°)	42.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4098.2	4098.2	4098.2	4098.2	4098.2	4098.2	4098.2	4098.2	4098.2	4098.2	4098.2
2.5°	4262.8	4283.9	4273.4	4258.9	4249.6	4240.4	4227.3	4189.1	4158.8	4125.8	4074.4
5°	4294.4	4307.6	4298.4	4279.9	4258.9	4249.6	4224.6	4174.6	4125.8	4070.5	3994.1
7.5°	4276.0	4281.3	4270.7	4248.3	4229.9	4212.8	4183.8	4128.5	4069.2	4002.0	3901.9
10°	4210.1	4229.9	4229.9	4211.4	4193.0	4183.8	4154.8	4102.1	4048.1	3971.7	3853.1
12.5°	4156.1	4177.2	4194.3	4189.1	4187.7	4187.7	4165.3	4125.8	4062.6	3990.1	3849.2
15°	4119.2	4144.3	4181.1	4202.2	4215.4	4219.4	4210.1	4175.9	4111.3	4027.0	3865.0
17.5°	4111.3	4141.6	4208.8	4254.9	4289.2	4287.9	4285.2	4237.8	4166.7	4079.7	3884.8
20°	4146.9	4186.4	4279.9	4352.4	4402.5	4393.2	4378.7	4316.8	4233.8	4136.4	3903.2
22.5°	4253.6	4294.4	4397.2	4476.2	4525.0	4525.0	4481.5	4399.8	4311.6	4202.2	3928.2
25°	4406.4	4451.2	4560.5	4640.9	4663.3	4646.2	4602.7	4503.9	4402.5	4297.1	3980.9
27.5°	4593.5	4647.5	4748.9	4816.1	4809.5	4796.3	4751.5	4625.1	4523.7	4427.5	4070.5
30°	4826.6	4866.2	4971.5	4987.3	4963.6	4961.0	4897.8	4771.3	4676.5	4602.7	4198.3
32.5°	5046.6	5082.2	5166.5	5173.1	5130.9	5136.2	5076.9	4961.0	4907.0	4880.6	4413.0
35°	5279.8	5298.2	5370.7	5362.8	5335.1	5331.2	5307.5	5196.8	5213.9	5261.3	4717.3
37.5°	5474.7	5511.6	5552.5	5559.1	5557.7	5570.9	5586.7	5534.0	5632.8	5781.7	5116.4
40°	5653.9	5685.5	5746.1	5767.2	5818.6	5844.9	5898.9	5900.2	6128.1	6373.2	5607.8
42.5°	5775.1	5829.1	5942.4	5980.6	6105.7	6184.8	6265.1	6350.8	6681.4	6996.2	6187.4
45°	5880.5	5951.6	6140.0	6258.6	6428.5	6524.6	6694.6	6873.7	7349.3	7761.6	6776.3
47.5°	6039.9	6103.1	6319.1	6528.6	6785.5	6896.1	7150.4	7417.8	8039.6	8491.4	7340.1
50°	6261.2	6299.4	6519.4	6860.6	7188.6	7330.8	7666.8	8052.7	8777.3	9212.0	7835.4
52.5°	6544.4	6560.2	6735.4	7189.9	7622.0	7798.5	8243.7	8694.3	9422.7	9837.7	8227.9
55°	6879.0	6852.7	6989.7	7539.0	8117.3	8347.8	8826.0	9343.7	10148.6	10343.5	8513.8
57.5°	7209.7	7168.8	7278.2	7963.2	8728.5	9006.5	9563.7	10012.9	10796.7	10816.5	8714.0
60°	7560.1	7529.8	7660.2	8461.1	9478.1	9807.4	10322.5	10707.1	11423.7	11145.8	8745.6
62.5°	7919.7	7870.9	8056.7	9021.0	10322.5	10621.5	11120.8	11444.8	12038.9	11268.3	8441.3
65°	8268.8	8246.4	8533.5	9686.2	11284.1	11624.0	12108.7	12328.7	12531.6	11083.9	7686.5
67.5°	8640.3	8685.0	9143.5	10574.1	12538.2	12965.0	13488.0	13281.1	12672.5	10210.5	6473.3
70°	9206.7	9235.7	9944.4	11737.3	14154.5	14669.6	14922.5	13619.7	11992.8	8552.0	4866.2
72.5°	9450.4	9578.2	10659.7	12958.4	15990.9	16305.7	15404.6	12864.9	9990.5	5809.3	2556.9
73°	9396.4	9549.2	10692.6	13144.1	16134.4	16465.1	15301.9	12476.3	9287.1	5003.2	2192.0
75°	8723.2	8911.6	10264.5	12988.7	15855.2	15657.6	13650.0	10633.3	6275.7	2275.0	998.5
77.5°	6883.0	6937.0	8133.1	10488.4	12485.5	12119.3	10215.8	6645.8	2563.5	845.7	566.4
80°	3452.7	3651.6	4584.2	6008.3	8349.1	8229.2	6448.2	3143.1	1068.3	496.6	375.4
82.5°	1661.1	1802.1	2232.8	2929.7	4613.2	4503.9	3193.2	1717.8	678.4	289.8	221.3
85°	1069.7	1175.0	1421.4	1397.7	1896.9	1811.3	1434.6	1300.2	401.8	151.5	154.1
87.5°	706.1	773.3	927.4	741.6	690.3	624.4	633.6	732.4	79.0	58.0	21.1
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°	4098.2	4098.2	4098.2	4098.2	4098.2	4098.2	4098.2	4098.2	4098.2	4098.2	4098.2
2.5°	4053.4	4036.2	3979.6	3924.3	3871.6	3821.5	3788.6	3745.1	3716.1	3724.0	3735.9
5°	3951.9	3913.7	3813.6	3716.1	3623.9	3514.6	3426.3	3355.2	3301.2	3281.4	3277.5
7.5°	3845.2	3780.7	3637.1	3469.8	3313.0	3177.4	3020.6	2942.9	2852.0	2820.4	2809.8
10°	3780.7	3693.7	3492.2	3259.0	3023.2	2798.0	2628.0	2489.7	2364.6	2340.9	2329.0
12.5°	3762.2	3647.6	3376.3	3075.9	2762.4	2485.8	2234.2	2052.4	1931.2	1903.5	1862.7
15°	3751.7	3609.4	3268.3	2891.5	2493.7	2156.4	1891.7	1679.6	1568.9	1495.1	1496.5
17.5°	3742.5	3566.0	3147.1	2690.0	2261.8	1873.2	1580.8	1389.8	1288.3	1248.8	1244.9
20°	3729.3	3514.6	3007.4	2477.9	1997.0	1615.0	1350.2	1208.0	1139.5	1106.5	1105.2
22.5°	3724.0	3464.5	2870.4	2261.8	1762.6	1416.1	1197.4	1097.3	1053.8	1031.5	1031.5
25°	3737.2	3429.0	2726.8	2056.3	1554.4	1246.2	1092.1	1023.6	998.5	986.7	982.7
27.5°	3778.1	3413.2	2584.6	1850.8	1363.4	1130.3	1020.9	973.5	955.1	945.8	947.1
30°	3855.8	3411.8	2444.9	1648.0	1221.1	1042.0	964.3	931.3	916.8	911.6	910.3
32.5°	3980.9	3440.8	2307.9	1480.7	1101.3	968.2	911.6	887.9	881.3	877.3	876.0
35°	4193.0	3522.5	2172.2	1327.9	1009.1	902.4	861.5	849.7	840.4	844.4	845.7
37.5°	4478.9	3663.4	2043.2	1208.0	939.2	853.6	819.4	808.8	803.6	807.5	811.5
40°	4862.2	3866.3	1935.1	1111.8	889.2	812.8	782.5	773.3	768.0	774.6	775.9
42.5°	5285.1	4100.8	1845.6	1036.7	848.3	778.5	749.6	739.0	735.1	739.0	740.3
45°	5719.8	4373.5	1799.4	982.7	814.1	753.5	723.2	711.3	702.1	699.5	703.4
47.5°	6147.9	4610.6	1798.1	949.8	786.4	731.1	698.2	685.0	673.1	666.6	665.2
50°	6497.0	4799.0	1829.7	935.3	762.7	706.1	673.1	660.0	644.2	631.0	633.6
52.5°	6760.4	4921.5	1844.2	928.7	749.6	679.7	646.8	634.9	616.5	599.4	599.4
55°	6930.4	4950.5	1808.7	922.1	739.0	652.1	616.5	606.0	587.5	570.4	570.4
57.5°	6988.3	4860.9	1680.9	906.3	728.5	628.4	586.2	577.0	562.5	545.4	542.7
60°	6854.0	4557.9	1456.9	858.9	707.4	603.3	553.3	549.3	544.0	529.6	528.2
62.5°	6336.3	3915.1	1213.2	797.0	671.8	577.0	523.0	529.6	533.5	525.6	524.3
65°	5474.7	3178.7	1036.7	711.3	624.4	540.1	490.0	507.2	517.7	517.7	515.1
67.5°	4440.7	2441.0	873.4	637.6	565.1	490.0	453.2	466.3	474.2	471.6	478.2
70°	3156.3	1653.2	711.3	553.3	490.0	433.4	405.7	405.7	400.5	397.8	397.8
72.5°	1530.7	944.5	577.0	462.4	417.6	370.2	347.8	338.5	328.0	326.7	320.1
73°	1279.1	847.0	550.6	445.3	400.5	360.9	335.9	321.4	314.8	309.6	308.3
75°	778.5	642.8	459.7	375.4	341.2	310.9	288.5	275.3	268.7	264.8	263.5
77.5°	512.4	479.5	357.0	287.2	260.8	242.4	233.2	220.0	216.0	210.8	210.8
80°	382.0	366.2	255.6	202.9	187.1	171.3	168.6	166.0	155.4	148.9	146.2
82.5°	246.3	260.8	173.9	135.7	118.6	105.4	106.7	110.7	100.1	90.9	88.3
85°	175.2	188.4	105.4	61.9	50.1	43.5	48.7	43.5	44.8	35.6	29.0
87.5°	29.0	50.1	18.4	7.9	4.0	2.6	0.0	0.0	0.0	0.0	0.0
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)