

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: ITL54988_250MP

Luminaire Tested: **GSM-XX-250-MP-XX-SL-FG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: ITL54988_250MP
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-XX-250-MP-XX-SL-FG
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE - SPILL LIGHT ELIMINATOR
Light Source: 250 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 22000 (1 lamp)
Luminaire Lumens: 13128.5 lumens
Efficiency: 59.7%
Efficacy: 46.4 lumens/watt
Luminous Opening: Rectangular (W 0.99' x L: 1.01' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

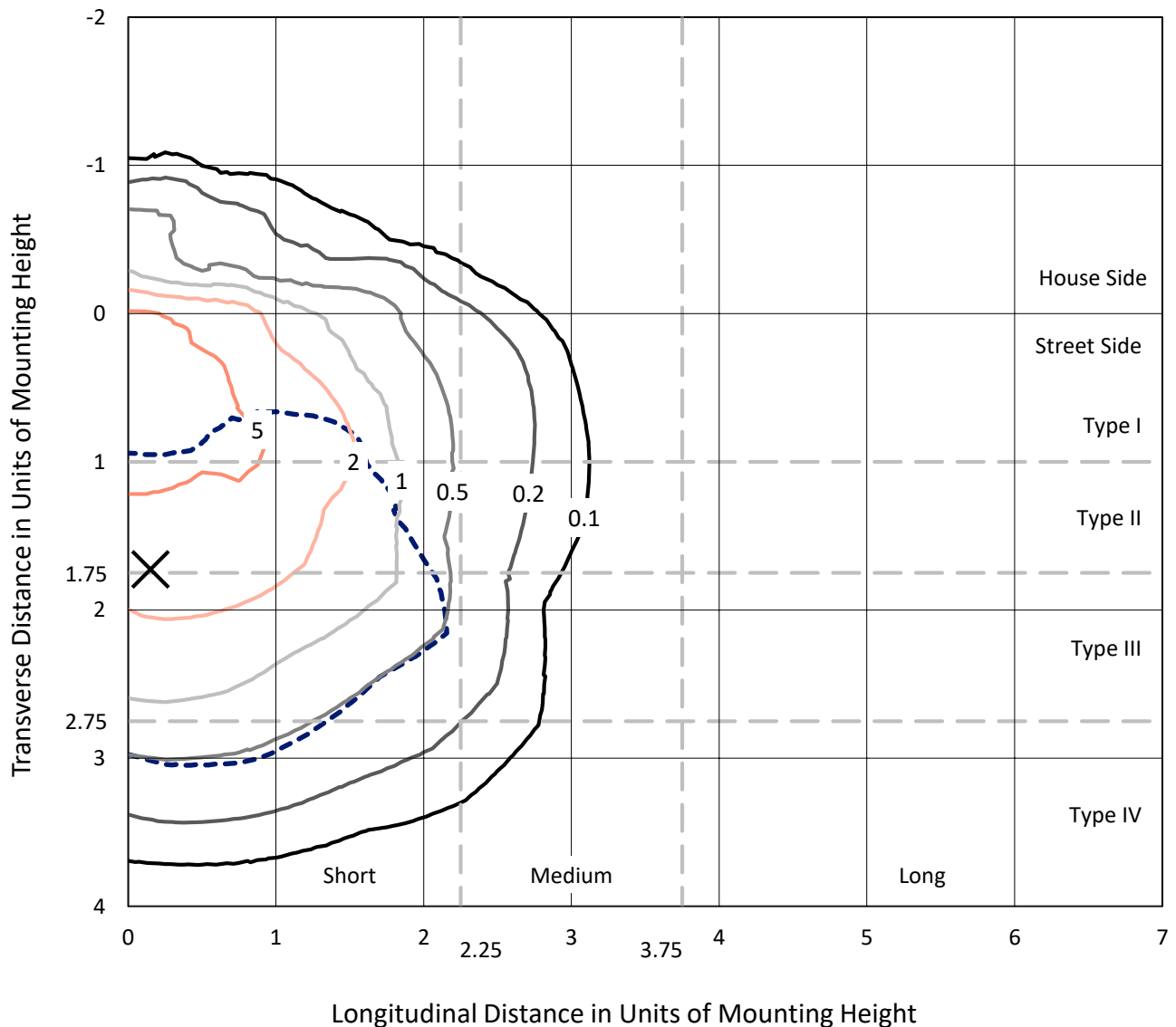
Input Watts (W): 283
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

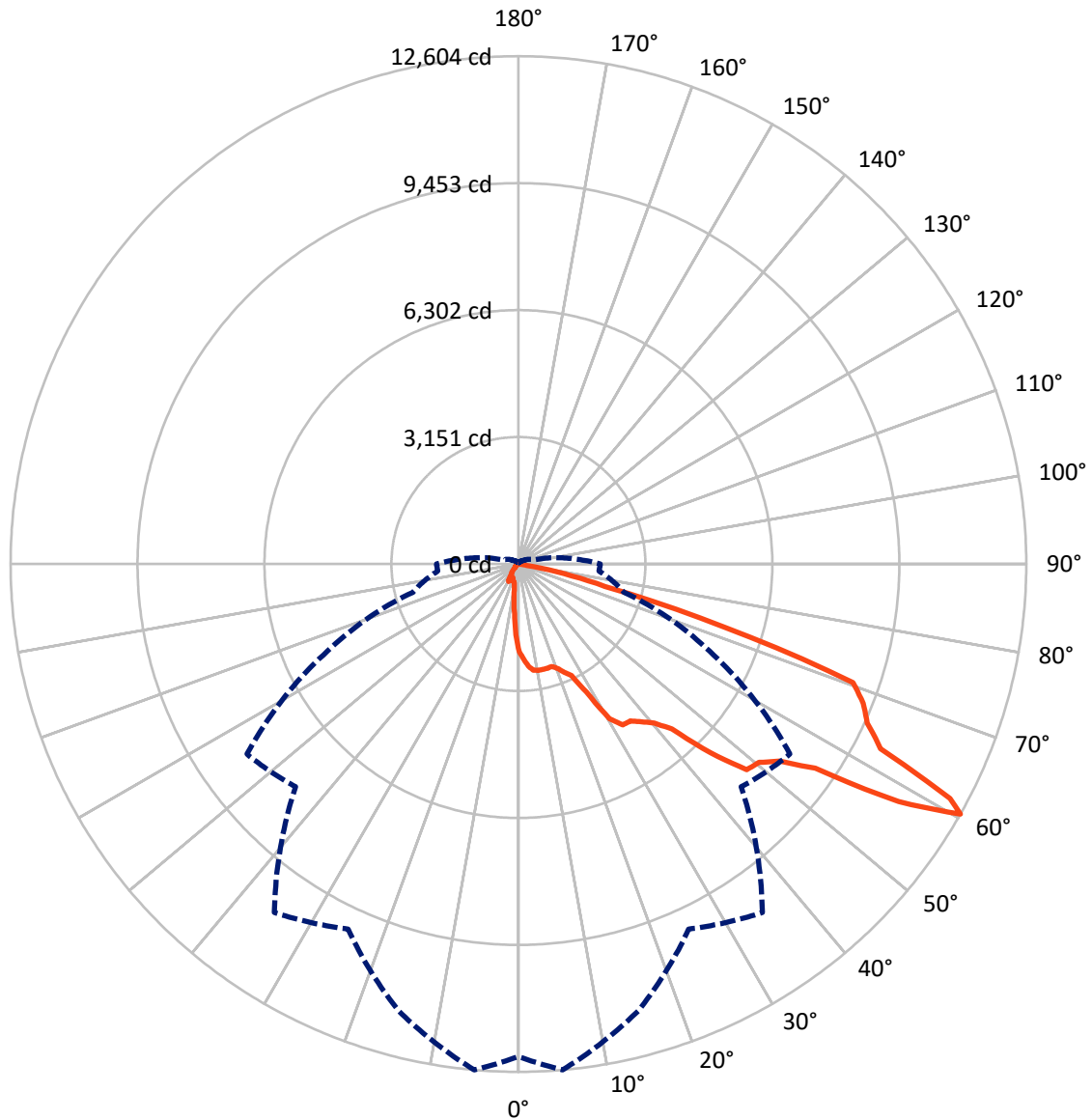
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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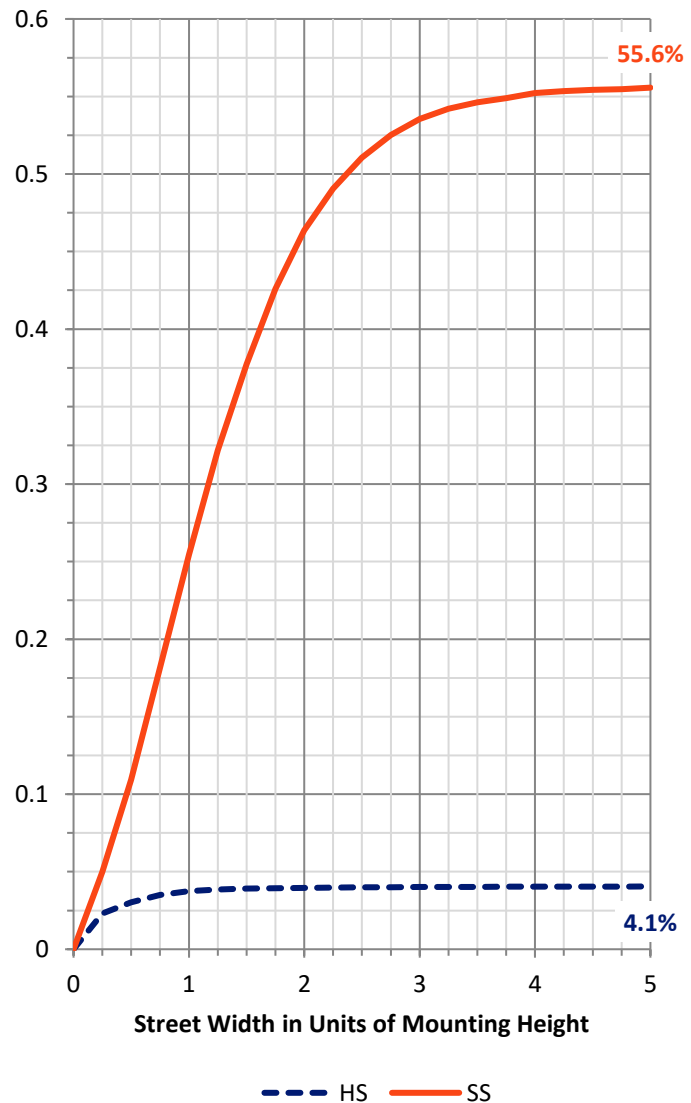
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	898.3	0.0	898.3
	% Lamp	4.1	0.0	4.1
Street Side	Lumens	12230.3	0.0	12230.3
	% Lamp	55.6	0.0	55.6
Total	Lumens	13128.5	0.0	13128.5
	% Lamp	59.7	0.0	59.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	185.9	1.4	0.8
10°-20°	476.8	3.6	2.2
20°-30°	801.6	6.1	3.6
30°-40°	1406.4	10.7	6.4
40°-50°	2105.3	16.0	9.6
50°-60°	3295.5	25.1	15.0
60°-70°	3484.9	26.5	15.8
70°-80°	1325.6	10.1	6.0
80°-90°	46.7	0.4	0.2
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	13128.5	100.0	59.7
0°-180°	13128.5	100.0	59.7

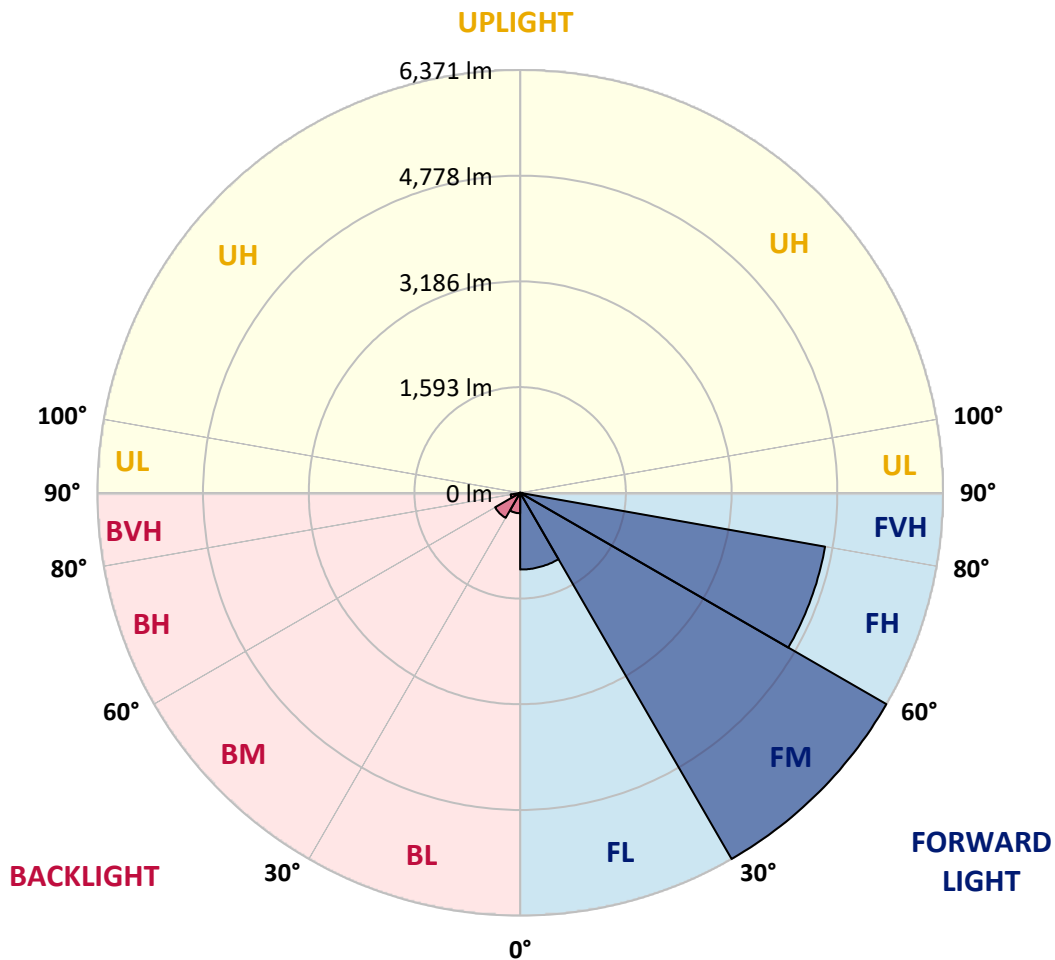


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.3	5.3			
FM (30°-60°)	6371.1	29.0			
FH (60°-80°)	4665.1	21.2			G2/5000
FVH (80°-90°)	37.8	0.2			G1/100
BL (0°-30°)	307.9	1.4	B1/500		
BM (30°-60°)	436.1	2.0	B1/1000		
BH (60°-80°)	145.4	0.7	B1/500		G1/500
BVH (80°-90°)	8.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	8871.5	40.3			

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2173.2	2173.2	2173.2	2173.2	2173.2	2173.2	2173.2	2173.2	2173.2	2173.2	2173.2
2.5°	2371.7	2346.0	2346.0	2333.1	2333.1	2307.3	2307.3	2294.4	2254.7	2229.0	2216.1
5°	2528.4	2541.3	2515.5	2515.5	2476.9	2424.3	2385.7	2346.0	2307.3	2241.9	2189.3
7.5°	2632.5	2659.3	2632.5	2606.7	2541.3	2476.9	2437.2	2411.4	2346.0	2241.9	2176.4
10°	2659.3	2685.1	2659.3	2646.4	2581.0	2515.5	2476.9	2476.9	2358.8	2241.9	2163.5
12.5°	2659.3	2685.1	2672.2	2646.4	2593.9	2541.3	2489.8	2437.2	2346.0	2241.9	2137.8
15°	2659.3	2685.1	2685.1	2685.1	2672.2	2619.6	2593.9	2528.4	2424.3	2229.0	2112.0
17.5°	2659.3	2672.2	2659.3	2646.4	2672.2	2685.1	2698.0	2619.6	2476.9	2216.1	2059.4
20°	2763.4	2763.4	2763.4	2763.4	2750.5	2789.2	2828.9	2750.5	2568.1	2229.0	2046.5
22.5°	2920.1	2920.1	2920.1	2893.3	2828.9	2814.9	2906.1	2814.9	2593.9	2241.9	2046.5
25°	3050.0	3062.8	3062.8	2984.5	2854.6	2880.4	2984.5	2789.2	2502.6	2189.3	2020.8
27.5°	3728.2	3597.3	3440.6	3219.5	2984.5	3102.5	3272.1	2789.2	2424.3	2124.9	1968.2
30°	4536.3	4458.0	4144.6	3675.6	3363.3	3363.3	3714.2	3011.3	2476.9	2176.4	1981.1
32.5°	4691.9	4757.4	4705.9	4327.0	3832.3	3858.0	4144.6	3297.9	2646.4	2280.5	2072.3
35°	4797.1	4783.1	4744.5	4797.1	4418.2	4483.7	4445.1	3427.7	2685.1	2385.7	2150.6
37.5°	4979.5	4965.6	4888.3	4822.8	5148.0	4965.6	4562.0	3402.0	2646.4	2398.5	2150.6
40°	5187.7	5187.7	5135.1	5056.8	5448.5	5682.4	4536.3	3363.3	2568.1	2267.6	2059.4
42.5°	5682.4	5591.2	5395.9	5408.8	5970.0	5722.1	4549.2	3454.5	2476.9	2059.4	1889.9
45°	6829.7	6686.9	6282.3	5904.6	6426.1	5956.1	5070.7	3637.0	2528.4	1968.2	1733.2
47.5°	7559.4	7624.9	7403.8	6778.1	6765.3	6725.6	5943.2	3962.1	2632.5	1915.6	1668.8
50°	7664.6	7741.9	7637.8	7624.9	8029.5	8015.5	6504.5	4445.1	2789.2	1851.2	1629.1
52.5°	8081.0	8120.7	8029.5	7898.5	9527.6	9071.5	6829.7	4965.6	2867.5	1877.0	1707.4
55°	9020.0	8941.7	8732.4	8511.3	10062.0	9358.0	7533.7	5344.4	2841.8	2006.8	1889.9
57.5°	11574.1	11130.9	10088.9	9423.5	10205.9	8407.2	8367.5	5357.3	2737.7	2046.5	2046.5
60°	12225.6	12604.4	11482.9	9997.7	10557.9	7820.2	8224.8	5344.4	2710.8	2006.8	2033.7
61°	11313.4	12186.9	11678.2	10388.3	10700.6	7637.8	7781.6	5200.6	2723.7	1994.0	1955.3
62.5°	9020.0	10088.9	10492.4	10492.4	10036.3	7546.5	6856.5	4210.0	2971.6	2006.8	1681.7
65°	8655.1	9514.7	9983.7	10023.4	9554.4	7012.1	6517.4	3832.3	2933.0	2020.8	1525.0
67.5°	8837.6	9228.2	9632.8	8589.7	9124.1	8511.3	5148.0	3597.3	2828.9	1942.4	1381.2
70°	8394.3	8810.7	8615.4	7677.5	7234.2	8081.0	3819.4	2958.7	2437.2	1707.4	1068.9
72.5°	4509.5	5331.5	5995.8	5773.7	5435.6	5500.0	2672.2	2124.9	1577.6	925.1	560.2
75°	2059.4	2216.1	2555.2	2685.1	3701.4	3206.6	873.6	1290.0	1121.5	560.2	339.1
77.5°	729.8	1147.2	1355.4	1563.6	1355.4	1251.3	377.8	625.7	508.7	299.4	195.3
80°	182.4	208.2	286.5	326.2	312.3	299.4	247.9	260.8	299.4	143.8	104.1
82.5°	78.3	91.2	117.0	91.2	91.2	91.2	78.3	91.2	117.0	78.3	78.3
85°	25.8	25.8	52.6	25.8	25.8	25.8	25.8	38.6	52.6	38.6	38.6
87.5°	0.0	0.0	0.0	12.9	25.8	25.8	25.8	25.8	25.8	25.8	25.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2173.2	2173.2	2173.2	2173.2	2173.2	2173.2	2173.2	2173.2	2173.2	2173.2
2.5°	2189.3	2112.0	2046.5	1929.6	1889.9	1838.3	1811.5	1772.9	1760.0	1772.9
5°	2112.0	1981.1	1864.1	1681.7	1550.7	1433.8	1355.4	1277.1	1238.4	1251.3
7.5°	2059.4	1889.9	1654.8	1395.1	1198.7	1068.9	977.7	912.2	886.4	912.2
10°	2006.8	1720.3	1408.0	1107.5	912.2	742.6	678.2	638.5	612.8	651.4
12.5°	1942.4	1563.6	1134.3	821.0	612.8	521.6	481.9	481.9	481.9	495.8
15°	1877.0	1408.0	925.1	625.7	469.0	417.5	443.2	456.1	456.1	469.0
17.5°	1746.0	1198.7	716.9	456.1	377.8	377.8	417.5	417.5	443.2	443.2
20°	1707.4	1029.2	560.2	417.5	326.2	339.1	377.8	390.6	404.6	390.6
22.5°	1668.8	912.2	456.1	339.1	312.3	312.3	339.1	364.9	377.8	390.6
25°	1654.8	833.9	364.9	286.5	286.5	286.5	312.3	339.1	352.0	364.9
27.5°	1577.6	769.5	339.1	260.8	273.7	286.5	299.4	352.0	377.8	390.6
30°	1537.9	716.9	339.1	260.8	235.0	273.7	339.1	430.3	495.8	495.8
32.5°	1537.9	664.3	352.0	273.7	235.0	299.4	430.3	469.0	443.2	469.0
35°	1537.9	625.7	390.6	286.5	247.9	312.3	377.8	339.1	299.4	312.3
37.5°	1472.4	587.0	377.8	299.4	286.5	286.5	299.4	286.5	273.7	286.5
40°	1368.3	547.3	364.9	260.8	299.4	260.8	299.4	273.7	247.9	235.0
42.5°	1212.7	481.9	312.3	273.7	260.8	221.1	260.8	221.1	169.6	156.7
45°	1121.5	469.0	299.4	299.4	247.9	182.4	195.3	182.4	117.0	129.9
47.5°	1056.0	443.2	286.5	299.4	235.0	143.8	143.8	143.8	104.1	104.1
50°	1029.2	443.2	273.7	247.9	208.2	129.9	104.1	117.0	91.2	104.1
52.5°	1081.8	417.5	299.4	235.0	182.4	104.1	91.2	104.1	65.5	78.3
55°	1238.4	404.6	273.7	221.1	156.7	91.2	78.3	65.5	25.8	25.8
57.5°	1381.2	377.8	273.7	169.6	129.9	78.3	52.6	38.6	25.8	25.8
60°	1408.0	390.6	273.7	156.7	104.1	78.3	52.6	38.6	25.8	25.8
61°	1381.2	377.8	273.7	143.8	104.1	65.5	52.6	38.6	25.8	25.8
62.5°	1134.3	364.9	235.0	104.1	78.3	52.6	52.6	38.6	25.8	25.8
65°	886.4	299.4	182.4	78.3	52.6	65.5	52.6	38.6	25.8	25.8
67.5°	742.6	247.9	129.9	65.5	52.6	65.5	52.6	38.6	25.8	25.8
70°	560.2	195.3	91.2	52.6	52.6	65.5	52.6	38.6	25.8	25.8
72.5°	339.1	156.7	78.3	38.6	38.6	38.6	52.6	38.6	25.8	25.8
75°	235.0	129.9	65.5	38.6	38.6	38.6	38.6	25.8	25.8	25.8
77.5°	156.7	78.3	38.6	25.8	25.8	25.8	25.8	25.8	25.8	25.8
80°	91.2	52.6	25.8	25.8	25.8	25.8	25.8	25.8	0.0	0.0
82.5°	65.5	25.8	25.8	25.8	25.8	25.8	25.8	0.0	0.0	0.0
85°	25.8	25.8	25.8	12.9	12.9	12.9	0.0	0.0	0.0	0.0
87.5°	25.8	25.8	25.8	12.9	0.0	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

(END OF REPORT)