

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: 769003_400MP

Luminaire Tested: **GSM-XX-400-MP-XX-FT-FG-XX-HS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769003_400MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GSM-XX-400-MP-XX-FT-FG-XX-HS
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-FORWARD THROW
DISTRIBUTION
WITH HOUSE-SIDE SHIELD
Light Source: 400 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 40000 (1 lamp)
Luminaire Lumens: 11267.6 lumens
Efficiency: 28.2%
Efficacy: 24.9 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G3

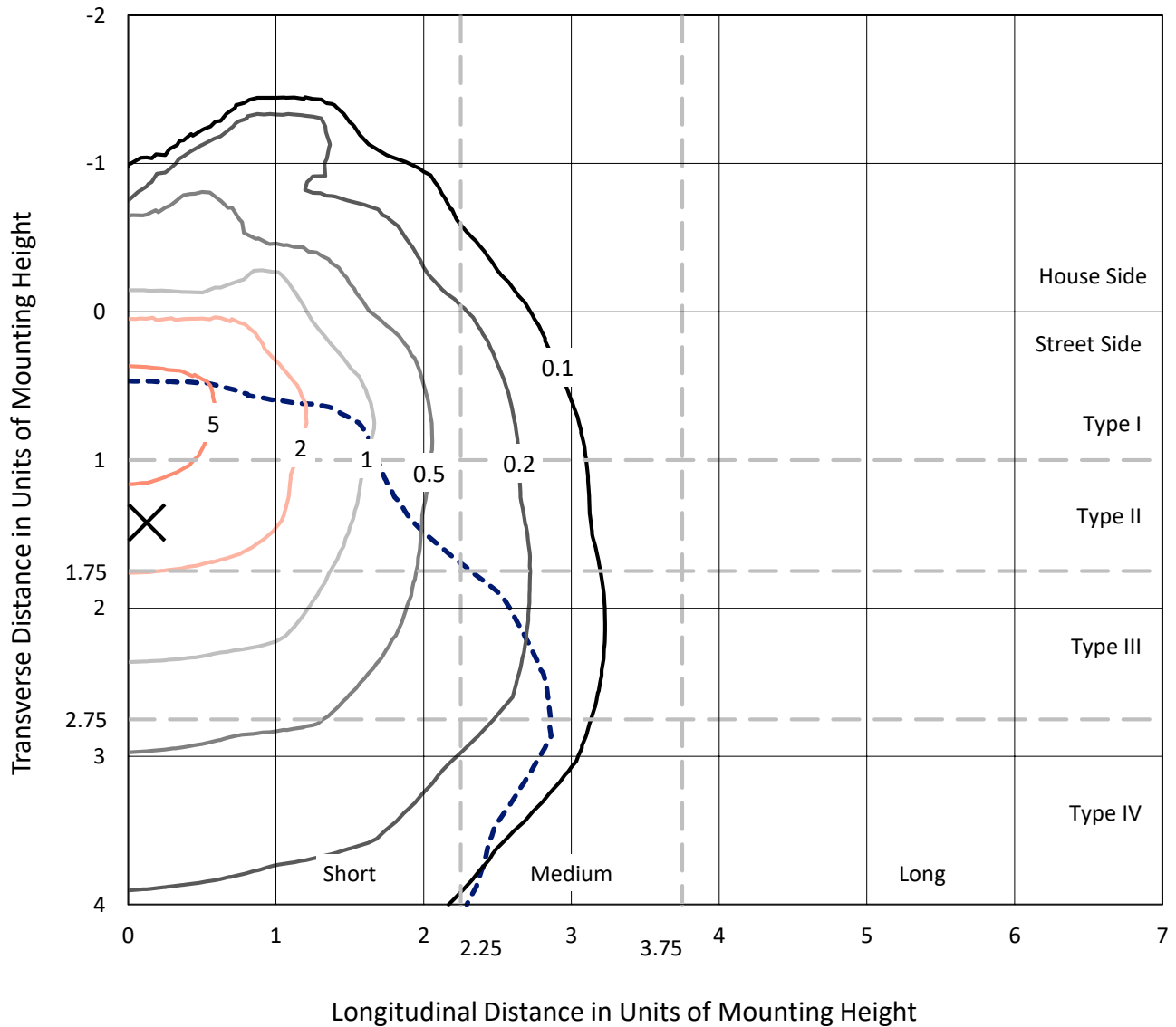
Input Watts (W): 452
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: 769003_400MP
 CATALOG NUMBER: GSM-XX-400-MP-XX-FT-FG-XX-HS

Iso-Footcandle Lines of Horizontal Illumination

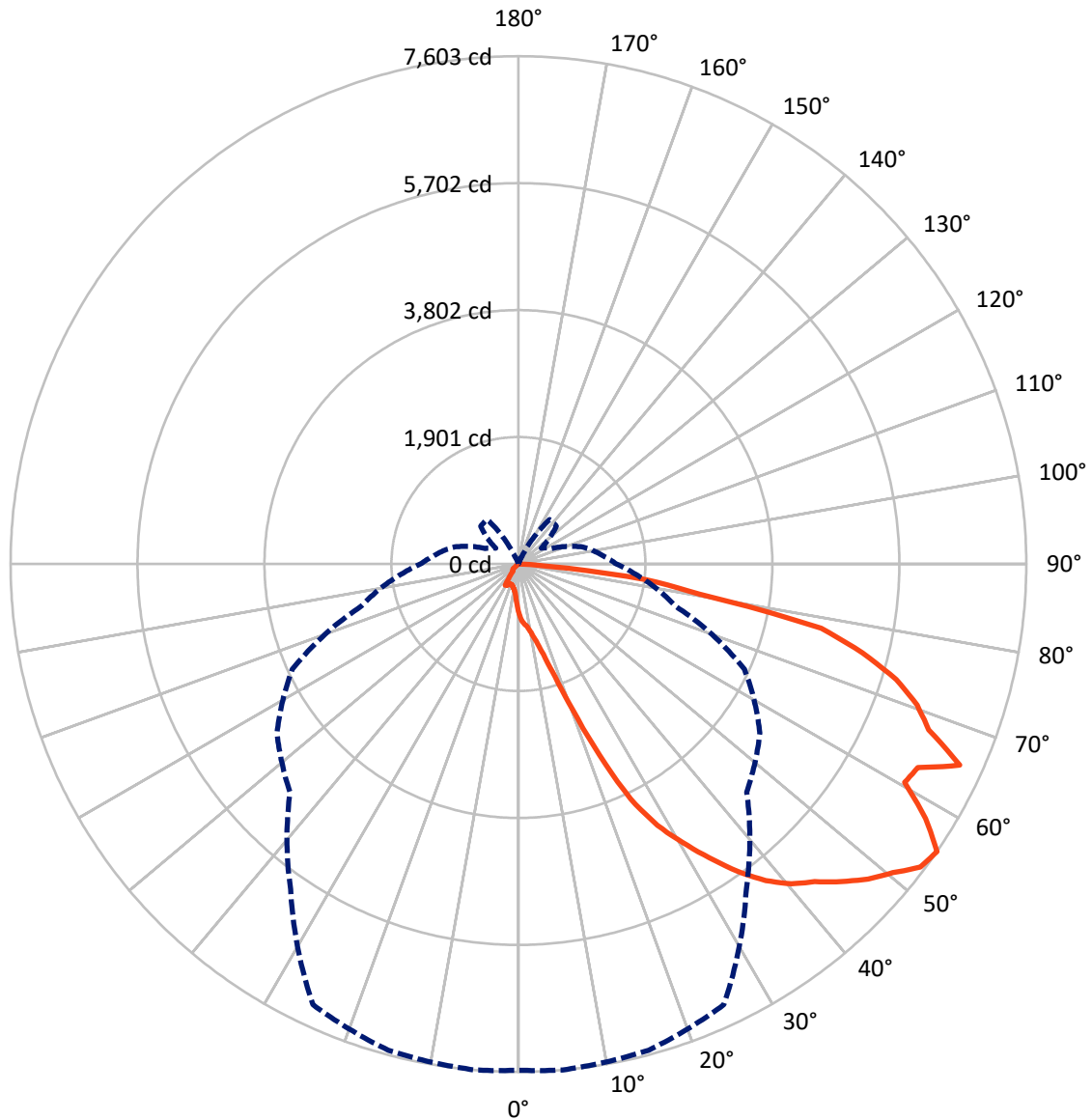
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: 769003_400MP
CATALOG NUMBER: GSM-XX-400-MP-XX-FT-FG-XX-HS

Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: 769003_400MP

CATALOG NUMBER: GSM-XX-400-MP-XX-FT-FG-XX-HS

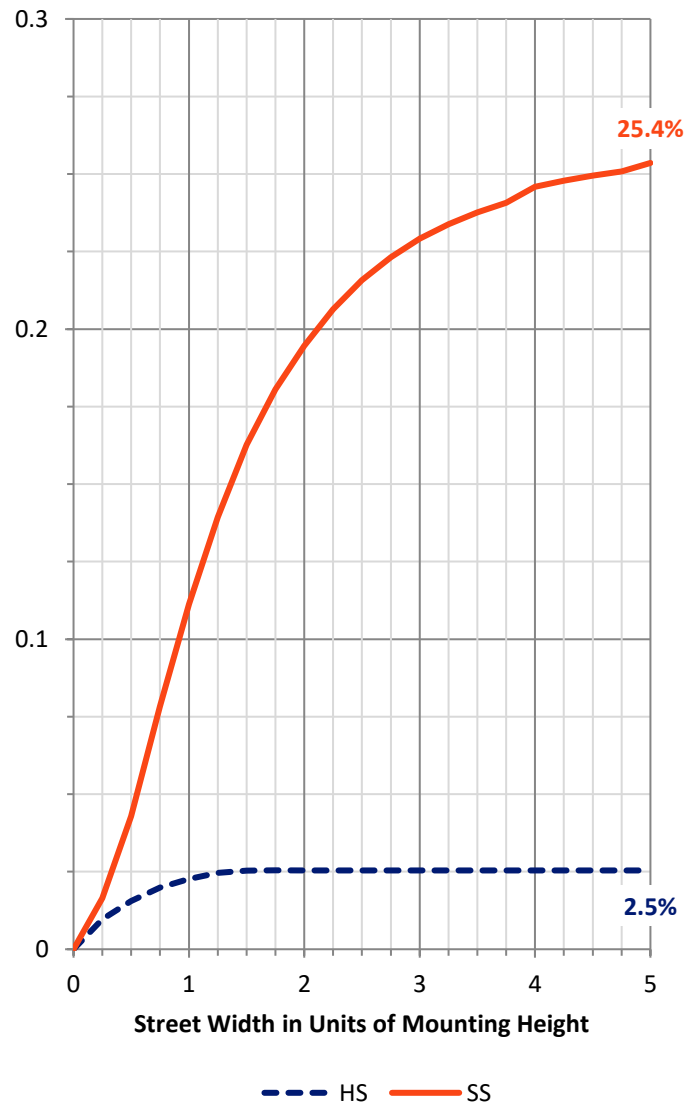
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1023.6	0.0	1023.6
	% Lamp	2.6	0.0	2.6
Street Side	Lumens	10244.0	0.0	10244.0
	% Lamp	25.6	0.0	25.6
Total	Lumens	11267.6	0.0	11267.6
	% Lamp	28.2	0.0	28.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	68.4	0.6	0.2
10°-20°	236.3	2.1	0.6
20°-30°	654.6	5.8	1.6
30°-40°	1330.2	11.8	3.3
40°-50°	1971.7	17.5	4.9
50°-60°	2481.5	22.0	6.2
60°-70°	2524.7	22.4	6.3
70°-80°	1754.6	15.6	4.4
80°-90°	245.6	2.2	0.6
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°	11267.6	100.0	28.2
0°-180°	11267.6	100.0	28.2



REPORT NUMBER: 769003_400MP

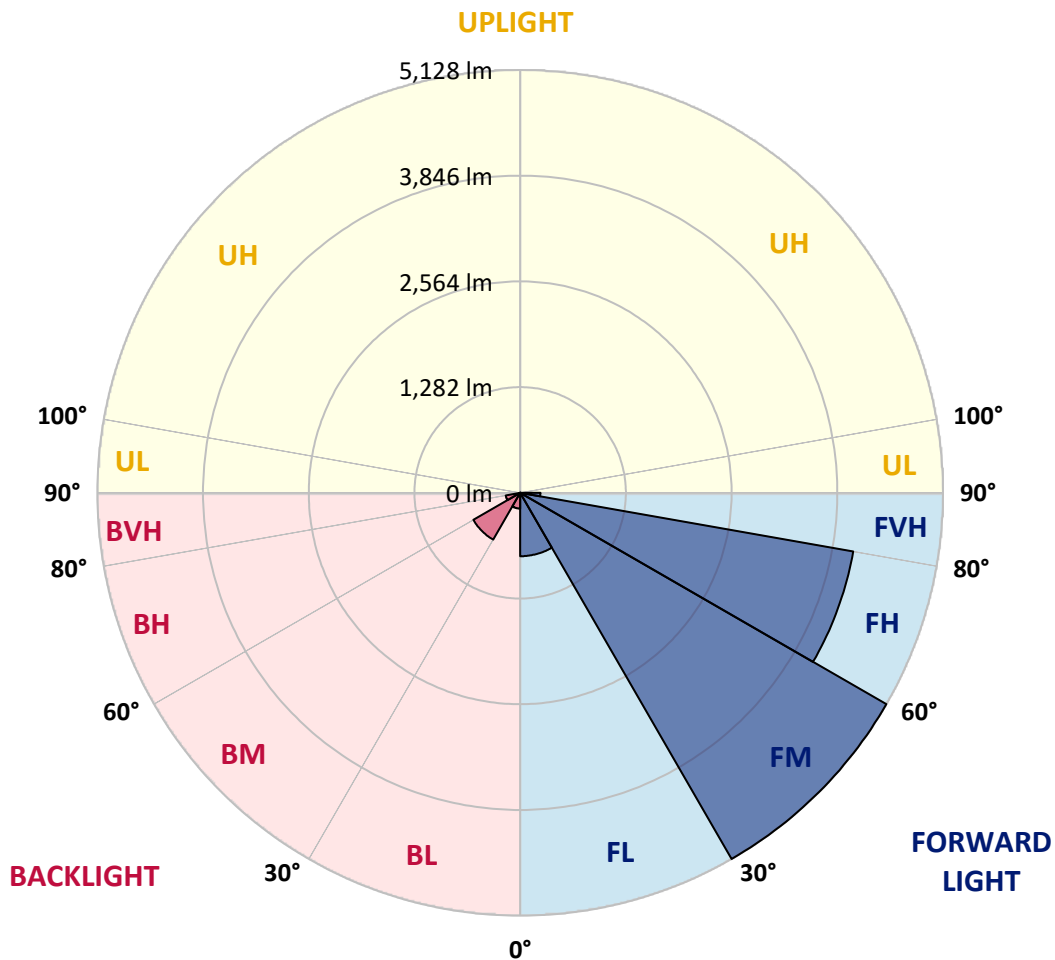
CATALOG NUMBER: GSM-XX-400-MP-XX-FT-FG-XX-HS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.9	1.9			
FM (30°-60°)	5128.2	12.8			
FH (60°-80°)	4101.4	10.3			G2/5000
FVH (80°-90°)	245.5	0.6			G3/500
BL (0°-30°)	190.4	0.5	B1/500		
BM (30°-60°)	655.2	1.6	B1/1000		
BH (60°-80°)	177.9	0.4	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	28732.4	71.8			

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: 769003_400MP

CATALOG NUMBER: GSM-XX-400-MP-XX-FT-FG-XX-HS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3
2.5°	843.3	837.8	837.8	831.1	831.1	818.9	801.1	788.9	788.9	764.4	745.6
5°	892.2	898.9	898.9	898.9	886.7	880.0	855.6	837.8	806.7	770.0	752.2
7.5°	941.1	947.8	947.8	941.1	928.9	923.3	904.4	880.0	843.3	782.2	752.2
10°	1038.9	1038.9	1021.1	1002.2	977.8	947.8	935.6	911.1	874.4	801.1	757.8
12.5°	1185.6	1185.6	1167.8	1124.4	1063.3	1014.4	984.4	953.3	911.1	818.9	770.0
15°	1405.6	1400.0	1363.3	1290.0	1216.7	1136.7	1063.3	1021.1	960.0	855.6	782.2
17.5°	1772.2	1772.2	1686.7	1546.7	1417.8	1320.0	1197.8	1100.0	1021.1	898.9	813.3
20°	2334.4	2328.9	2175.6	1931.1	1717.8	1522.2	1375.6	1228.9	1100.0	941.1	831.1
22.5°	3116.7	3111.1	2866.7	2493.3	2077.8	1791.1	1564.4	1363.3	1192.2	996.7	867.8
25°	3898.9	3893.3	3654.4	3233.3	2615.6	2121.1	1772.2	1546.7	1320.0	1082.2	923.3
27.5°	4436.7	4431.1	4241.1	3905.6	3306.7	2566.7	2035.6	1730.0	1442.2	1185.6	996.7
30°	4816.7	4834.4	4632.2	4333.3	3886.7	3098.9	2310.0	1894.4	1576.7	1302.2	1087.8
32.5°	5244.4	5244.4	5030.0	4712.2	4277.8	3605.6	2634.4	2041.1	1698.9	1417.8	1204.4
35°	5647.8	5653.3	5470.0	5140.0	4607.8	3978.9	3006.7	2200.0	1815.6	1522.2	1295.6
37.5°	6002.2	6014.4	5836.7	5574.4	4968.9	4192.2	3348.9	2346.7	1906.7	1601.1	1387.8
40°	6283.3	6295.6	6093.3	5897.8	5317.8	4375.6	3612.2	2524.4	2011.1	1686.7	1478.9
42.5°	6478.9	6503.3	6313.3	6093.3	5513.3	4492.2	3771.1	2701.1	2077.8	1747.8	1552.2
45°	6808.9	6784.4	6582.2	6295.6	5476.7	4516.7	3874.4	2927.8	2108.9	1766.7	1588.9
47.5°	7065.6	7046.7	6857.8	6564.4	5378.9	4516.7	4021.1	3153.3	2126.7	1735.6	1571.1
50°	7261.1	7266.7	7065.6	6772.2	5396.7	4565.6	4198.9	3343.3	2200.0	1723.3	1546.7
52.5°	7530.0	7535.6	7340.0	6973.3	5555.6	4626.7	4326.7	3532.2	2297.8	1717.8	1497.8
55°	7578.9	7603.3	7535.6	7278.9	5946.7	4834.4	4412.2	3734.4	2432.2	1760.0	1466.7
57.5°	7187.8	7187.8	7254.4	7383.3	6503.3	5078.9	4400.0	3844.4	2610.0	1796.7	1436.7
60°	6637.8	6643.3	6692.2	7083.3	6796.7	5268.9	4272.2	3783.3	2683.3	1821.1	1368.9
62.5°	6698.9	6711.1	6545.6	6826.7	6564.4	5274.4	4076.7	3568.9	2627.8	1808.9	1332.2
65°	7273.3	7261.1	7217.8	7242.2	6136.7	5030.0	3832.2	3196.7	2414.4	1698.9	1307.8
67.5°	6637.8	6625.6	6833.3	7456.7	6142.2	4773.3	3605.6	2847.8	2170.0	1497.8	1204.4
70°	6368.9	6332.2	6362.2	6912.2	6038.9	4780.0	3538.9	2505.6	1870.0	1222.2	953.3
72.5°	6014.4	5916.7	5770.0	6650.0	5555.6	5024.4	3465.6	2170.0	1497.8	801.1	598.9
75°	5415.6	5323.3	5207.8	5738.9	4681.1	4363.3	2921.1	1576.7	818.9	440.0	281.1
77.5°	4694.4	4632.2	4583.3	4461.1	3477.8	3086.7	2072.2	996.7	458.9	275.6	146.7
80°	2774.4	2750.0	2615.6	2285.6	1840.0	1681.1	1167.8	586.7	268.9	134.4	43.3
82.5°	1980.0	1925.6	1766.7	1613.3	1131.1	684.4	391.1	171.1	73.3	24.4	0.0
85°	476.7	458.9	471.1	488.9	220.0	116.7	61.1	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.7	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



REPORT NUMBER: 769003_400MP

CATALOG NUMBER: GSM-XX-400-MP-XX-FT-FG-XX-HS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3
2.5°	745.6	708.9	691.1	666.7	647.8	635.6	617.8	611.1	611.1	598.9
5°	727.8	672.2	623.3	581.1	550.0	525.6	501.1	488.9	488.9	488.9
7.5°	715.6	647.8	574.4	525.6	476.7	452.2	440.0	427.8	422.2	415.6
10°	703.3	617.8	525.6	476.7	434.4	415.6	397.8	385.6	385.6	391.1
12.5°	715.6	586.7	501.1	440.0	403.3	385.6	373.3	366.7	361.1	366.7
15°	715.6	568.9	476.7	422.2	397.8	373.3	354.4	348.9	342.2	342.2
17.5°	708.9	556.7	458.9	403.3	373.3	348.9	336.7	336.7	330.0	330.0
20°	727.8	544.4	446.7	397.8	366.7	348.9	336.7	330.0	324.4	330.0
22.5°	740.0	537.8	440.0	391.1	354.4	330.0	317.8	317.8	324.4	317.8
25°	770.0	544.4	446.7	391.1	354.4	324.4	330.0	330.0	324.4	330.0
27.5°	813.3	550.0	464.4	391.1	348.9	342.2	342.2	354.4	354.4	354.4
30°	862.2	562.2	464.4	391.1	361.1	373.3	385.6	378.9	361.1	366.7
32.5°	960.0	611.1	464.4	397.8	385.6	440.0	440.0	391.1	373.3	366.7
35°	1057.8	660.0	483.3	410.0	446.7	537.8	501.1	373.3	244.4	220.0
37.5°	1155.6	782.2	507.8	434.4	525.6	623.3	507.8	275.6	153.3	134.4
40°	1283.3	960.0	556.7	483.3	593.3	647.8	458.9	263.3	128.9	110.0
42.5°	1400.0	1155.6	581.1	520.0	598.9	562.2	434.4	244.4	128.9	110.0
45°	1473.3	1241.1	593.3	532.2	556.7	507.8	440.0	190.0	122.2	110.0
47.5°	1461.1	1204.4	574.4	507.8	507.8	507.8	458.9	116.7	104.4	97.8
50°	1400.0	1124.4	550.0	446.7	513.3	605.6	410.0	61.1	67.8	61.1
52.5°	1344.4	1045.6	532.2	422.2	605.6	752.2	251.1	18.9	12.2	12.2
55°	1290.0	990.0	550.0	415.6	801.1	813.3	128.9	6.7	0.0	0.0
57.5°	1228.9	972.2	586.7	440.0	1045.6	691.1	73.3	0.0	0.0	0.0
60°	1136.7	923.3	630.0	483.3	996.7	342.2	18.9	0.0	0.0	0.0
62.5°	1021.1	843.3	654.4	501.1	525.6	55.6	6.7	0.0	0.0	0.0
65°	953.3	733.3	647.8	256.7	104.4	0.0	0.0	0.0	0.0	0.0
67.5°	898.9	586.7	476.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	715.6	336.7	104.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	378.9	165.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	141.1	31.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	43.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)