

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: 769009_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-2F-FG-XX-HS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769009_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-XX-350-MP-XX-2F-FG-XX-HS
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE II
DISTRIBUTION
WITH HOUSE-SIDE SHIELD
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 23665.4 lumens
Efficiency: 71.7%
Efficacy: 59.6 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G3

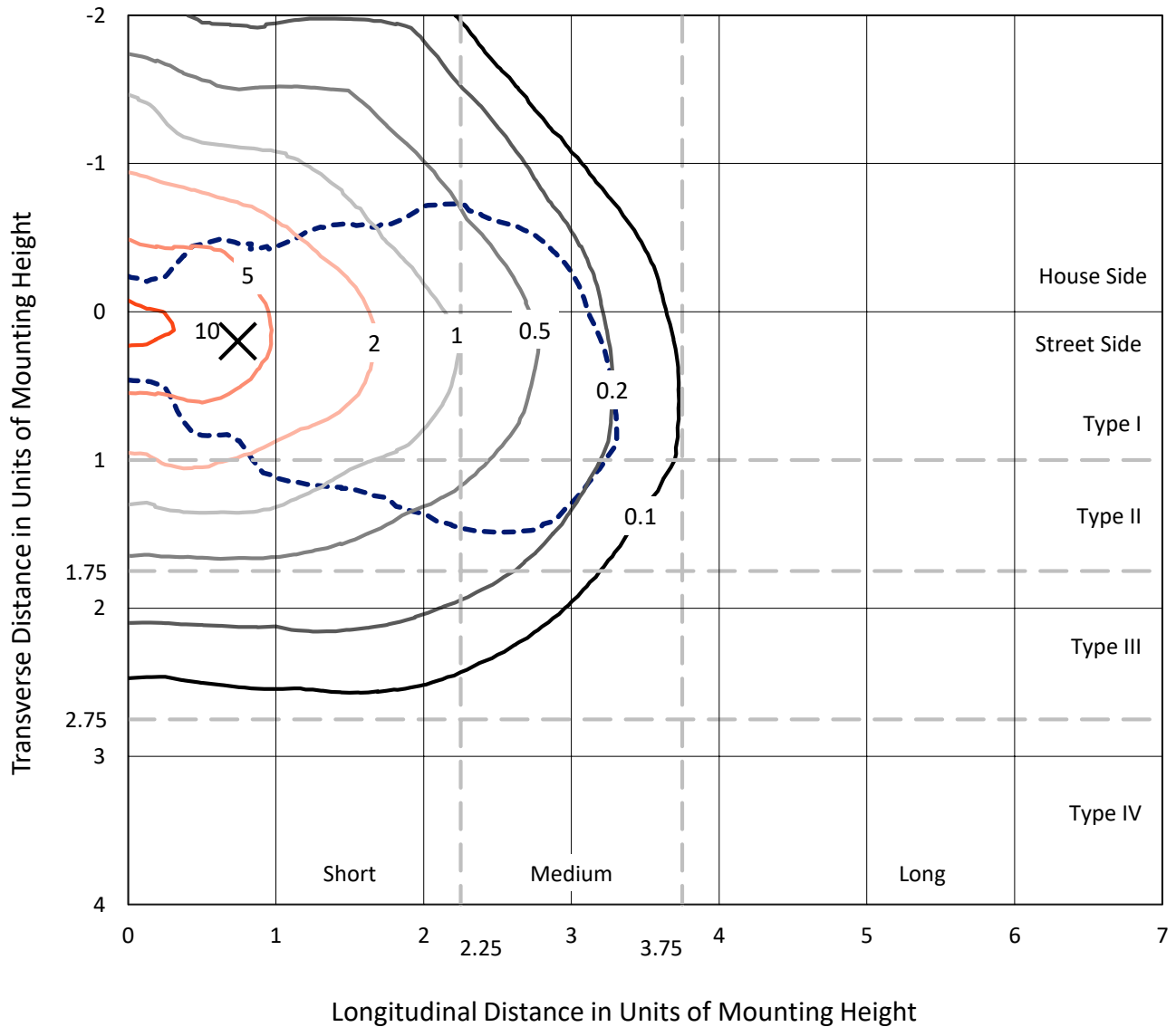
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

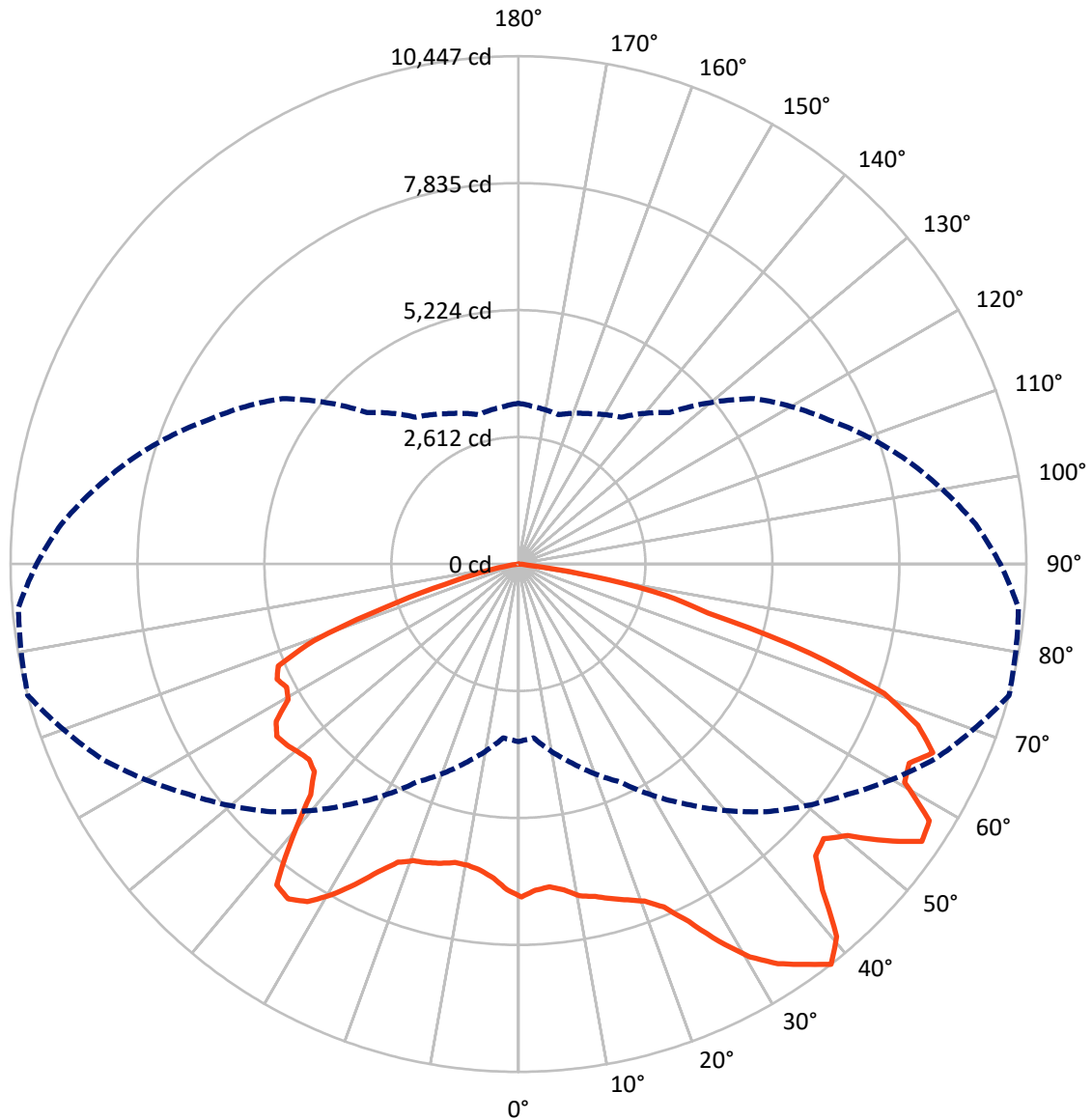
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 37.5-Deg Vertical

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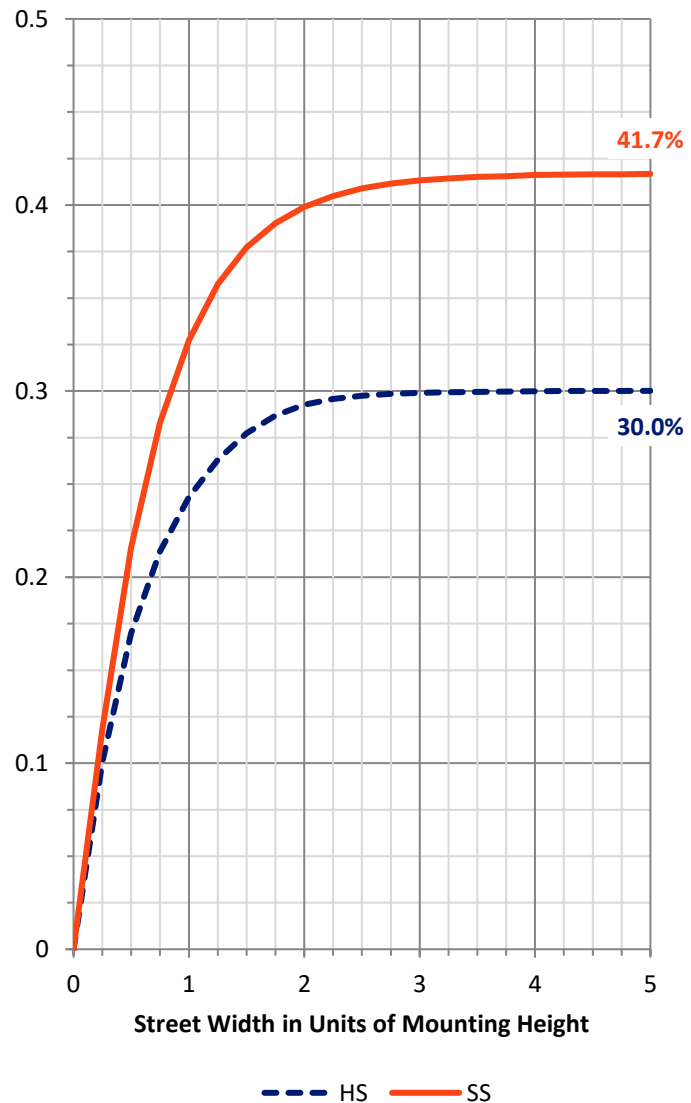
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9954.5	0.0	9954.5
	% Lamp	30.2	0.0	30.2
Street Side	Lumens	13711.0	0.0	13711.0
	% Lamp	41.5	0.0	41.5
Total	Lumens	23665.4	0.0	23665.4
	% Lamp	71.7	0.0	71.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	628.1	2.7	1.9
10°-20°	1765.0	7.5	5.3
20°-30°	2821.8	11.9	8.6
30°-40°	3934.8	16.6	11.9
40°-50°	4080.5	17.2	12.4
50°-60°	4497.7	19.0	13.6
60°-70°	4168.1	17.6	12.6
70°-80°	1706.1	7.2	5.2
80°-90°	63.3	0.3	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°	23665.4	100.0	71.7
0°-180°	23665.4	100.0	71.7



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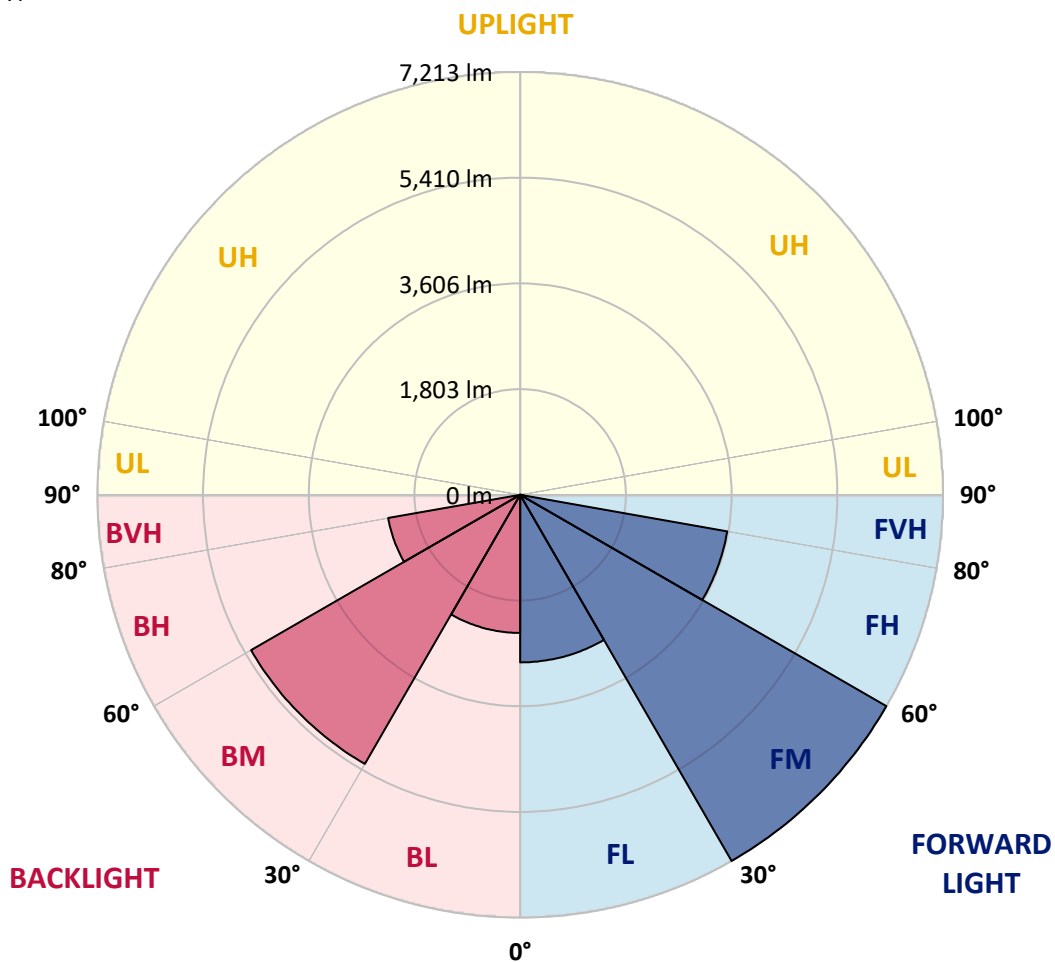
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2858.7	8.7			
FM (30°-60°)	7212.8	21.9			
FH (60°-80°)	3587.4	10.9			G2/5000
FVH (80°-90°)	52.0	0.2			G1/100
BL (0°-30°)	2356.2	7.1	B3/2500		
BM (30°-60°)	5300.2	16.1	B4/8500		
BH (60°-80°)	2286.8	6.9	B3/2500		G3/2500
BVH (80°-90°)	11.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	9334.6	28.3			

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6847.5	6847.5	6847.5	6847.5	6847.5	6847.5	6847.5	6847.5	6847.5	6847.5	6847.5
2.5°	6988.7	6993.2	6963.0	6922.7	6882.3	6837.4	6801.7	6776.9	6716.4	6706.3	6706.3
5°	7129.8	7154.6	7104.2	7043.7	7008.8	6918.1	6842.0	6771.4	6670.6	6600.0	6569.8
7.5°	7099.6	7129.8	7104.2	7073.9	7084.0	7049.2	6983.2	6892.4	6771.4	6650.4	6585.3
10°	6998.8	6998.8	6993.2	7053.8	7119.8	7150.0	7144.5	7094.1	6942.8	6741.2	6645.8
12.5°	6827.3	6811.8	6847.5	6952.9	7063.8	7150.0	7180.2	7160.1	7018.9	6842.0	6726.5
15°	6615.6	6600.0	6686.2	6821.8	6958.4	7039.1	7160.1	7225.2	7144.5	6993.2	6872.2
17.5°	6313.1	6303.0	6438.7	6600.0	6726.5	6908.0	7099.6	7240.8	7265.5	7139.9	7008.8
20°	5919.8	5919.8	6075.7	6292.9	6484.5	6716.4	7039.1	7311.3	7402.1	7311.3	7180.2
22.5°	5506.4	5496.3	5698.0	5934.5	6222.3	6565.2	7008.8	7452.5	7664.2	7593.7	7426.8
25°	5123.2	5097.6	5284.6	5597.2	5980.3	6489.1	7129.8	7765.1	8148.2	8083.2	7881.5
27.5°	4750.2	4724.5	4926.2	5289.2	5778.7	6524.8	7432.3	8294.9	8789.0	8753.2	8476.4
30°	4437.6	4411.9	4629.2	5062.8	5692.5	6680.7	7815.5	8799.1	9378.4	9328.0	9061.2
32.5°	4125.0	4094.8	4457.8	4996.8	5758.5	6912.6	8133.6	9141.9	9801.9	9812.0	9504.9
35°	3861.9	3827.1	4321.2	4966.5	5899.7	7174.8	8284.8	9323.4	10114.5	10175.0	9842.2
37.5°	3650.2	3589.7	4235.9	4946.3	6030.8	7205.0	8264.7	9469.2	10447.2	10326.2	9912.8
40°	3458.6	3393.5	4155.2	5006.8	5944.6	6998.8	8097.8	9408.7	10079.7	9590.2	9101.6
42.5°	3327.5	3216.6	4145.2	5002.2	5617.3	6499.2	7553.3	8712.9	9166.7	8662.5	8153.8
45°	3176.2	3070.8	4074.6	4865.7	5143.4	5819.0	6756.8	7881.5	8567.2	8208.8	7755.0
47.5°	3055.2	2939.8	3963.7	4669.5	4871.2	5445.9	6196.7	7416.8	8446.2	8228.9	7750.4
50°	2924.2	2808.7	3730.8	4401.8	4851.0	5385.4	6025.2	7477.2	8778.9	8698.2	8138.2
52.5°	2742.7	2662.0	3443.9	4114.9	4906.0	5460.6	6126.1	7765.1	9454.5	9368.3	8657.9
55°	2551.1	2460.3	3060.8	3776.7	4835.4	5516.5	6337.8	8168.4	10074.2	10064.1	9232.7
57.5°	2339.3	2304.5	2667.5	3398.1	4568.7	5319.4	6323.2	8264.7	9968.8	9837.7	9010.8
60°	2107.4	2133.1	2369.6	3020.4	4079.2	4941.8	5944.6	8077.7	9126.3	9071.3	8360.0
62.5°	1855.3	1881.0	2097.3	2641.8	3599.8	4518.2	5486.2	8042.8	9020.9	9075.9	8214.2
65°	1492.3	1497.8	1780.2	2254.1	3236.8	4276.2	5254.3	7891.6	9368.3	9333.5	8244.5
67.5°	1240.2	1220.1	1522.6	1996.5	2990.2	4059.0	5047.2	7139.9	8859.6	9565.4	8491.1
70°	937.8	927.7	1260.4	1683.9	2611.6	3675.8	4800.6	6307.6	7982.3	8410.4	7487.3
72.5°	635.2	625.2	852.5	1306.2	2127.6	3125.8	4326.7	5450.5	6272.8	5460.6	4855.6
75°	403.3	403.3	473.9	705.8	1265.9	1905.8	2667.5	3312.8	4028.8	3569.5	3115.8
77.5°	231.9	257.6	187.0	217.2	352.9	691.2	1290.7	2223.8	3101.1	2561.2	2147.8
80°	110.9	116.4	86.2	90.8	156.8	342.8	675.6	1255.8	1603.2	1199.9	963.4
82.5°	40.3	35.8	30.2	20.2	30.2	50.4	96.2	156.8	191.6	116.4	80.7
85°	0.0	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	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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6847.5	6847.5	6847.5	6847.5	6847.5	6847.5	6847.5	6847.5	6847.5	6847.5
2.5°	6706.3	6700.8	6666.0	6655.9	6666.0	6655.9	6676.1	6686.2	6676.1	6666.0
5°	6539.5	6484.5	6403.8	6363.5	6358.0	6343.3	6383.7	6403.8	6388.2	6383.7
7.5°	6509.2	6347.9	6171.9	6035.3	5950.1	5934.5	5984.9	5990.4	5954.7	5940.0
10°	6545.0	6282.8	6045.4	5808.9	5607.2	5506.4	5571.5	5591.7	5556.8	5546.8
12.5°	6600.0	6277.3	5954.7	5652.2	5395.5	5178.2	5264.4	5324.9	5299.2	5284.6
15°	6726.5	6358.0	5954.7	5577.0	5224.1	4986.7	4982.1	5042.6	5002.2	4992.2
17.5°	6857.6	6424.0	5954.7	5466.1	5123.2	4835.4	4764.8	4800.6	4785.0	4800.6
20°	6993.2	6474.4	5929.9	5450.5	5097.6	4760.2	4583.3	4653.9	4619.1	4619.1
22.5°	7210.5	6615.6	6000.5	5521.1	5133.3	4649.3	4361.5	4457.8	4553.1	4558.6
25°	7618.4	6952.9	6287.4	5773.2	5183.8	4588.8	4220.3	4155.2	4411.9	4407.3
27.5°	8168.4	7392.0	6655.9	6025.2	5214.0	4532.9	4119.5	3872.9	4159.8	4185.5
30°	8728.5	7821.0	7033.6	6277.3	5093.0	4361.5	3933.4	3645.6	3837.2	3883.0
32.5°	9131.8	8188.6	7305.8	6418.5	4982.1	4155.2	3730.8	3454.0	3534.7	3559.4
35°	9444.4	8360.0	7265.5	6252.6	4684.2	3907.8	3564.9	3297.2	3347.7	3357.8
37.5°	9438.9	8264.7	7029.0	5929.9	4407.3	3685.9	3413.7	3181.8	3256.9	3307.3
40°	8521.3	7315.9	6182.0	5127.8	4094.8	3524.6	3267.0	3111.2	3236.8	3317.4
42.5°	7523.1	6383.7	5395.5	4512.8	3827.1	3383.4	3141.4	3014.9	3171.7	3267.0
45°	7114.2	5990.4	5133.3	4371.6	3751.0	3246.8	2939.8	2853.6	3065.3	3156.1
47.5°	7073.9	5889.6	5037.1	4351.4	3766.6	3125.8	2722.5	2627.2	2990.2	3105.7
50°	7336.1	5954.7	5022.4	4346.8	3786.8	3050.7	2591.4	2475.9	3025.0	3246.8
52.5°	7709.2	6045.4	5077.4	4306.5	3730.8	2964.5	2516.2	2475.9	3267.0	3579.6
55°	8178.5	6105.9	5027.0	4250.6	3670.3	2904.0	2415.4	2486.0	3312.8	3680.4
57.5°	8022.7	5940.0	4901.4	4190.1	3675.8	2909.5	2299.0	2344.8	2919.6	3135.9
60°	7361.8	5496.3	4704.3	4145.2	3706.1	2939.8	2173.4	2002.0	2324.7	2520.8
62.5°	7134.4	5400.1	4719.9	4175.4	3821.6	2919.6	1915.8	1552.8	1921.3	2157.8
65°	7023.5	5500.9	4815.2	4205.7	3998.5	2758.2	1532.7	1175.2	1502.4	1663.8
67.5°	7220.6	5365.2	4649.3	3938.0	3861.9	2213.8	1119.2	857.1	1008.3	1109.2
70°	6686.2	4488.0	3589.7	2869.2	2914.1	1346.6	756.2	580.2	590.3	655.4
72.5°	4432.1	2869.2	1794.8	1276.0	1260.4	660.9	449.2	342.8	332.8	352.9
75°	2738.1	1562.9	812.2	550.0	439.1	277.8	221.8	191.6	191.6	201.7
77.5°	1764.6	822.2	368.5	237.4	171.4	96.2	80.7	76.1	80.7	90.8
80°	741.6	302.5	116.4	60.5	35.8	5.5	0.0	5.5	10.1	10.1
82.5°	60.5	15.6	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)