

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: 769014_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-3F-SG-XX-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769014_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-3F-SG-XX-X
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE III DISTRIBUTION
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 25146 lumens
Efficiency: 76.2%
Efficacy: 63.3 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

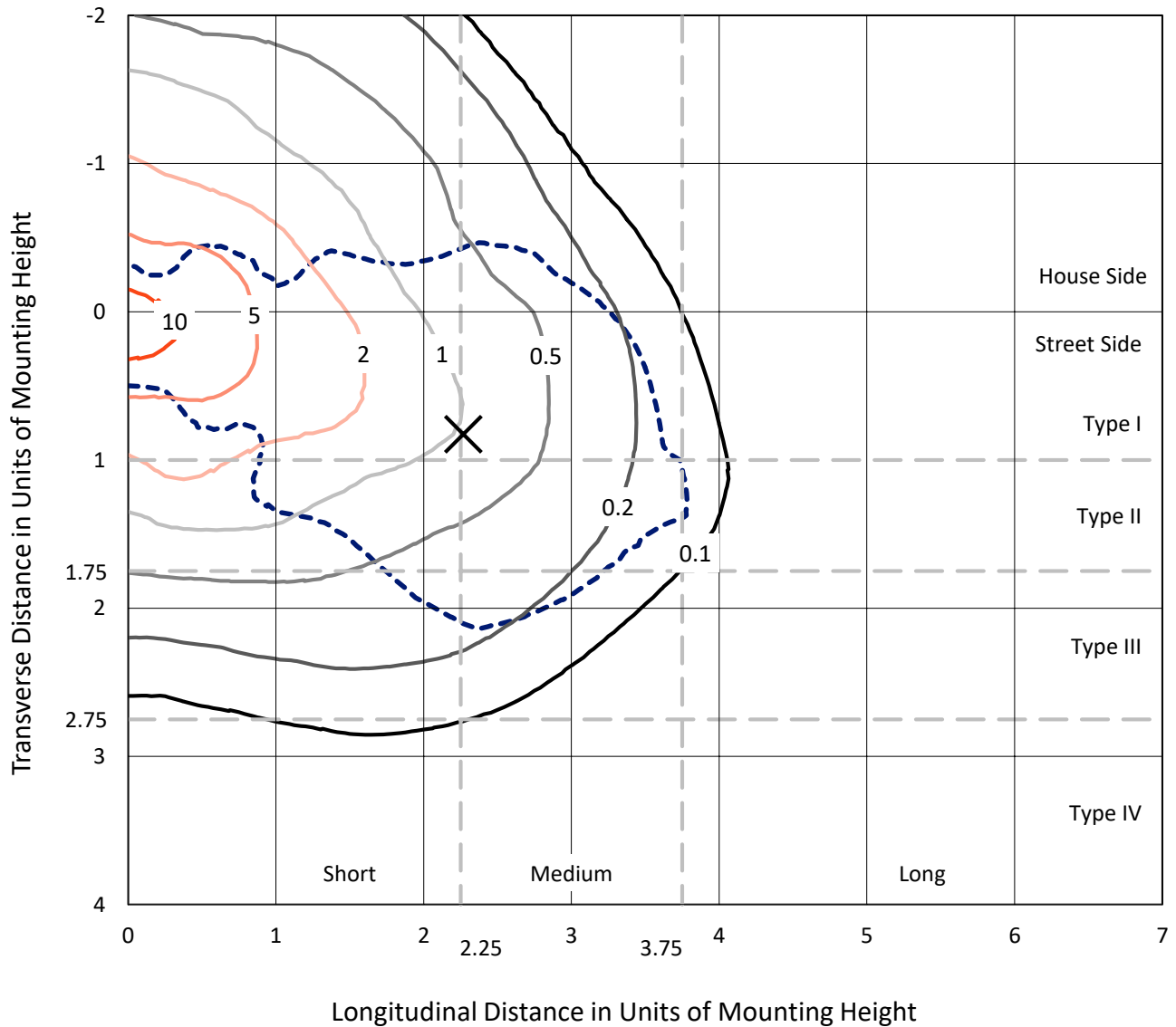
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

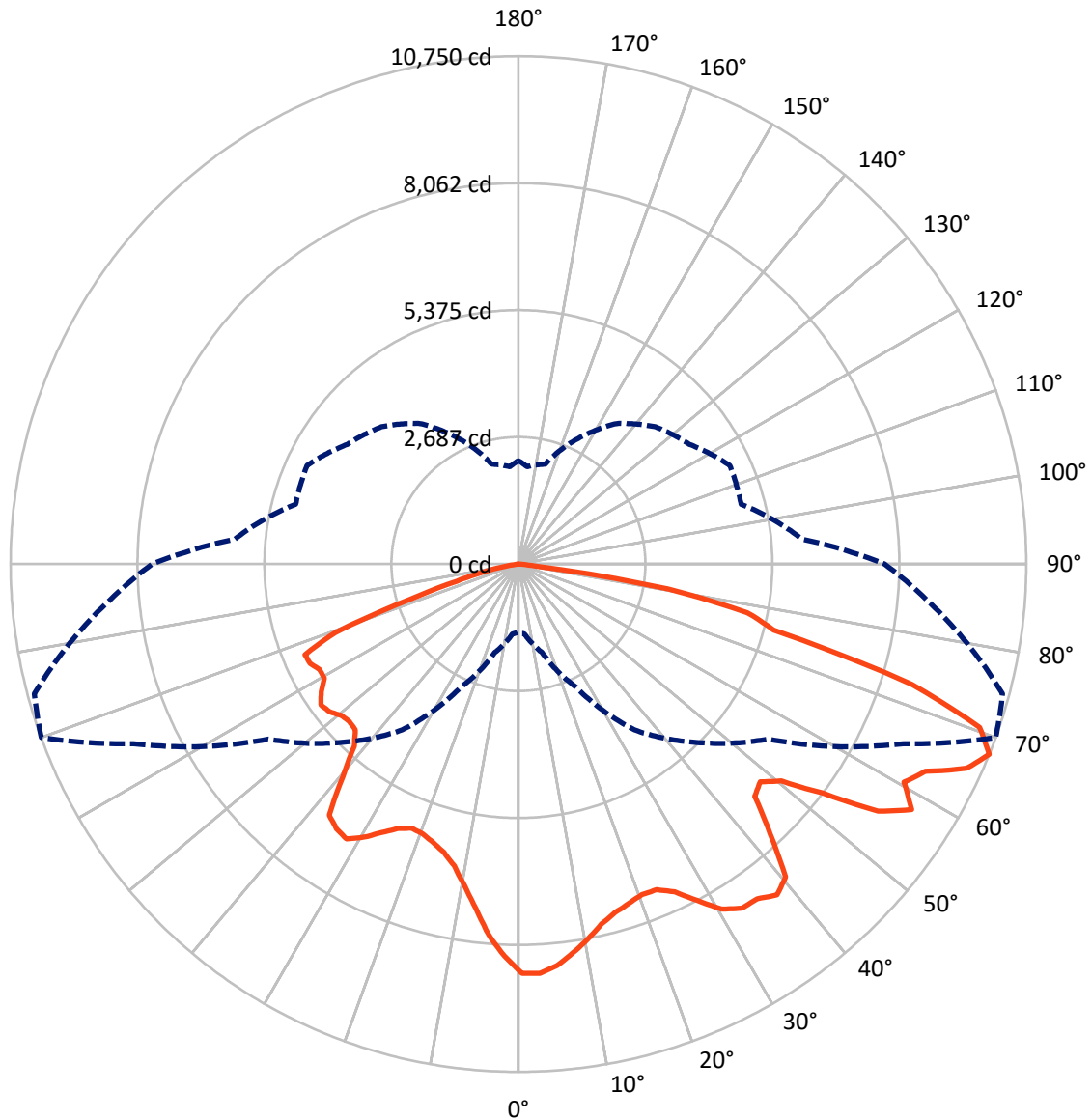
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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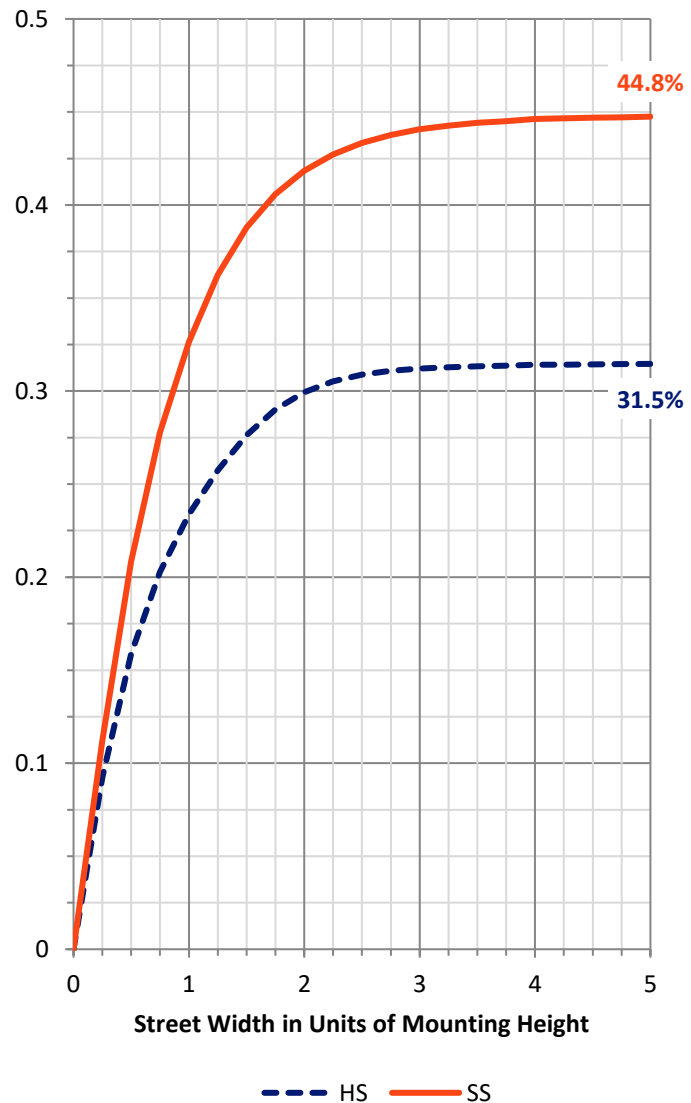
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10418.3	0.0	10418.3
	% Lamp	31.6	0.0	31.6
Street Side	Lumens	14727.7	0.0	14727.7
	% Lamp	44.6	0.0	44.6
Total	Lumens	25146.0	0.0	25146.0
	% Lamp	76.2	0.0	76.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	762.3	3.0	2.3
10°-20°	1924.0	7.7	5.8
20°-30°	2827.4	11.2	8.6
30°-40°	3707.4	14.7	11.2
40°-50°	3853.3	15.3	11.7
50°-60°	4674.2	18.6	14.2
60°-70°	4831.3	19.2	14.6
70°-80°	2438.3	9.7	7.4
80°-90°	127.7	0.5	0.4
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°	25146.0	100.0	76.2
0°-180°	25146.0	100.0	76.2



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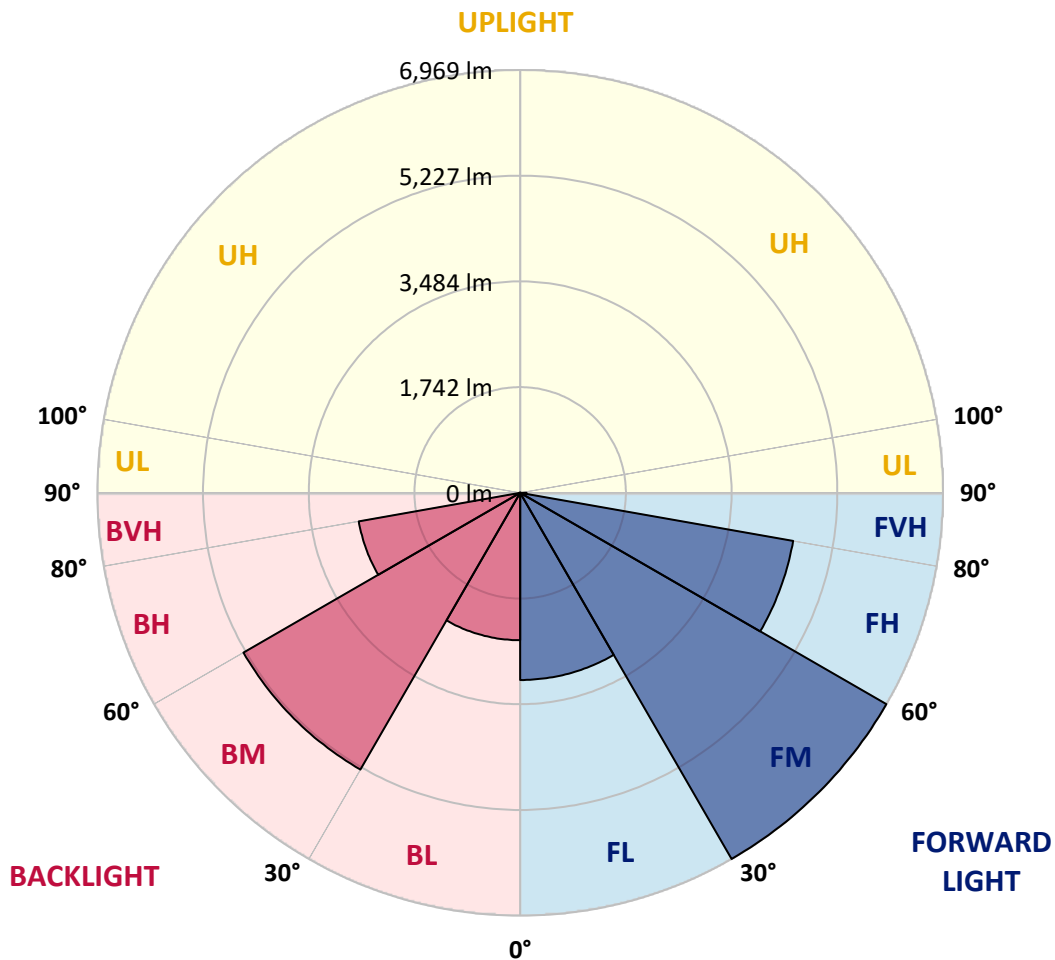
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3085.1	9.3			
FM	(30°-60°)	6968.9	21.1			
FH	(60°-80°)	4568.1	13.8			G2/5000
FVH	(80°-90°)	105.6	0.3			G2/225
BL	(0°-30°)	2428.7	7.4	B3/2500		
BM	(30°-60°)	5266.0	16.0	B4/8500		
BH	(60°-80°)	2701.5	8.2	B4/5000		G4/5000
BVH	(80°-90°)	22.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		7854.0	23.8			

BUG Rating: B4-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	8662.5	8662.5	8662.5	8662.5	8662.5	8662.5	8662.5	8662.5	8662.5	8662.5	8662.5
2.5°	9136.4	9156.6	9116.2	9075.9	9010.8	8920.1	8819.2	8718.4	8672.6	8632.2	8521.3
5°	9398.6	9418.8	9358.2	9247.3	9106.2	8934.8	8753.2	8612.1	8541.5	8460.8	8269.2
7.5°	9328.0	9333.5	9252.8	9101.6	8954.9	8809.2	8617.6	8410.4	8309.6	8204.2	7956.7
10°	8985.2	9005.3	8914.6	8803.7	8702.8	8567.2	8430.6	8204.2	8073.1	7936.5	7678.9
12.5°	8470.9	8476.4	8430.6	8390.2	8380.2	8299.5	8148.2	7931.9	7821.0	7699.1	7392.0
15°	7876.0	7871.4	7881.5	7942.0	7972.2	7972.2	7881.5	7760.5	7654.2	7523.1	7210.5
17.5°	7271.0	7281.1	7386.5	7482.8	7563.4	7623.9	7674.3	7638.6	7553.3	7432.3	7139.9
20°	6716.4	6726.5	6852.1	6993.2	7124.3	7315.9	7487.3	7533.2	7467.2	7376.4	7063.8
22.5°	6161.8	6171.9	6337.8	6504.7	6710.9	7008.8	7346.2	7502.9	7487.3	7392.0	7069.3
25°	5627.4	5652.2	5813.5	6040.8	6388.2	6847.5	7346.2	7648.7	7684.4	7623.9	7346.2
27.5°	5123.2	5143.4	5329.5	5611.8	6121.5	6791.6	7482.8	7962.2	8063.0	8037.3	7709.2
30°	4689.7	4709.8	4926.2	5289.2	5950.1	6821.8	7704.6	8335.2	8476.4	8456.2	8063.0
32.5°	4336.8	4367.0	4649.3	5087.5	5904.2	6973.1	7876.0	8531.4	8688.2	8692.8	8294.9
35°	3983.8	4054.4	4417.4	4931.7	5899.7	7029.0	7855.8	8531.4	8702.8	8778.9	8395.8
37.5°	3730.8	3817.0	4336.8	4895.9	5909.8	6938.2	7750.4	8571.8	8889.8	8970.5	8410.4
40°	3488.8	3625.4	4346.8	4916.1	5718.2	6680.7	7648.7	8506.7	8708.3	8571.8	7638.6
42.5°	3377.9	3559.4	4422.0	4966.5	5480.8	6303.0	7220.6	7896.2	7815.5	7557.9	6690.8
45°	3297.2	3504.4	4563.2	4956.4	5062.8	5667.8	6474.4	6978.6	7013.4	6877.8	6282.8
47.5°	3267.0	3478.8	4633.8	4921.6	4730.0	5137.9	5879.5	6630.2	6887.8	6912.6	6277.3
50°	3166.2	3363.2	4613.6	4895.9	4750.2	5087.5	5819.0	6932.8	7215.1	7305.8	6655.9
52.5°	3004.8	3226.7	4477.9	4805.2	5037.1	5319.4	6151.8	7678.9	8052.9	8218.8	7351.7
55°	2833.4	3101.1	4014.1	4664.0	5304.8	5601.8	6741.2	8748.7	9232.7	9338.1	8128.1
57.5°	2762.8	2914.1	3575.0	4407.3	5400.1	5778.7	7033.6	9328.0	9812.0	9519.6	8037.3
60°	2641.8	2732.6	3191.8	4069.1	5168.2	5667.8	6882.3	8980.6	9378.4	8718.4	7477.2
62.5°	2379.7	2425.5	2823.3	3655.7	4795.1	5466.1	6600.0	9051.2	9666.2	8708.3	7477.2
65°	1825.1	1830.6	2329.2	3256.9	4482.5	5365.2	6428.6	9394.0	10427.1	9615.8	7821.0
67.5°	1441.9	1487.8	1941.5	2869.2	4286.3	5339.6	6458.8	8995.2	10749.8	10608.6	8672.6
70°	1250.3	1225.6	1659.2	2506.2	3973.8	5274.5	6676.1	8753.2	10356.5	10341.8	8894.4
72.5°	917.6	882.8	1240.2	2092.8	3408.2	4951.8	6403.8	8234.4	8712.9	8395.8	6857.6
75°	594.9	584.8	796.6	1507.9	2379.7	3529.2	4477.9	5345.1	5581.6	5425.8	4270.8
77.5°	383.2	363.0	297.9	423.5	812.2	1760.0	2833.4	4321.2	4956.4	4895.9	3383.4
80°	161.3	126.5	90.8	161.3	413.4	1028.5	1689.4	2818.8	3216.6	2964.5	1891.1
82.5°	30.2	20.2	5.5	25.7	70.6	146.7	207.2	297.9	363.0	373.1	227.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8662.5	8662.5	8662.5	8662.5	8662.5	8662.5	8662.5	8662.5	8662.5	8662.5	8662.5
2.5°	8491.1	8440.7	8339.8	8274.8	8208.8	8143.7	8103.3	8077.7	8077.7	8067.6	8077.7
5°	8188.6	8103.3	7946.6	7835.7	7689.0	7537.8	7447.0	7381.9	7331.5	7315.9	7321.4
7.5°	7851.2	7714.7	7492.8	7210.5	6983.2	6817.2	6710.9	6670.6	6645.8	6600.0	6595.4
10°	7527.7	7381.9	7049.2	6751.2	6494.6	6277.3	6081.2	6050.9	6050.9	6081.2	6091.2
12.5°	7225.2	7043.7	6686.2	6378.2	6101.3	5853.8	5687.9	5637.5	5728.2	5808.9	5819.0
15°	7043.7	6867.7	6479.0	6126.1	5823.6	5536.7	5375.3	5355.2	5445.9	5506.4	5516.5
17.5°	6973.1	6756.8	6337.8	5990.4	5652.2	5355.2	5133.3	5107.7	5173.7	5188.3	5193.8
20°	6872.2	6655.9	6242.5	5879.5	5536.7	5274.5	4986.7	4921.6	5047.2	5067.3	5062.8
22.5°	6877.8	6655.9	6226.9	5829.1	5521.1	5269.0	4881.2	4664.0	4851.0	4966.5	4961.9
25°	7109.7	6842.0	6373.6	5929.9	5627.4	5294.7	4815.2	4447.7	4472.4	4734.6	4740.1
27.5°	7426.8	7134.4	6630.2	6121.5	5702.6	5314.8	4760.2	4276.2	4119.5	4442.2	4508.2
30°	7760.5	7422.2	6912.6	6373.6	5849.2	5214.0	4709.8	4119.5	3841.8	4044.3	4094.8
32.5°	7992.4	7654.2	7139.9	6585.3	5894.2	5198.4	4643.8	3948.1	3655.7	3766.6	3801.4
35°	8097.8	7750.4	7150.0	6444.2	5677.8	4931.7	4326.7	3811.5	3519.1	3589.7	3579.6
37.5°	8083.2	7714.7	7039.1	6267.2	5405.6	4643.8	4135.1	3680.4	3433.8	3509.0	3498.9
40°	7220.6	6807.2	6166.4	5516.5	4709.8	4104.8	3817.0	3539.2	3393.5	3579.6	3619.9
42.5°	6323.2	5954.7	5410.2	4966.5	4301.0	3837.2	3605.2	3443.9	3333.0	3680.4	3730.8
45°	5884.1	5546.8	5077.4	4770.3	4250.6	3827.1	3468.7	3302.8	3216.6	3660.2	3751.0
47.5°	5859.3	5526.6	5037.1	4740.1	4266.2	3872.9	3393.5	3236.8	3161.6	3680.4	3801.4
50°	6161.8	5738.3	5117.8	4754.8	4290.9	3887.6	3458.6	3388.0	3302.8	3857.3	4004.0
52.5°	6645.8	6050.9	5304.8	4840.9	4266.2	3831.7	3544.8	3625.4	3665.8	4256.1	4477.9
55°	7200.4	6413.9	5420.2	4851.0	4235.9	3806.9	3650.2	3867.4	3998.5	4518.2	4669.5
57.5°	7043.7	6247.1	5208.5	4740.1	4250.6	3841.8	3806.9	4059.0	4044.3	4367.0	4447.7
60°	6696.2	5909.8	4901.4	4629.2	4321.2	3953.6	3933.4	4159.8	3786.8	4059.0	4246.0
62.5°	6686.2	5742.9	4800.6	4724.5	4477.9	4084.7	4014.1	3851.8	3302.8	3599.8	3872.9
65°	6978.6	5788.8	4825.3	4946.3	4588.8	4220.3	3988.4	3413.7	2752.8	2883.8	3075.4
67.5°	7750.4	6030.8	4881.2	4936.2	4417.4	4104.8	3630.0	2909.5	2188.1	2067.1	2188.1
70°	7765.1	5934.5	4367.0	3907.8	3347.7	3156.1	2667.5	2193.6	1558.3	1310.8	1411.7
72.5°	5667.8	4367.0	2783.0	1996.5	1588.6	1472.2	1199.9	1068.8	832.3	766.3	806.7
75°	3650.2	2914.1	1633.5	1074.3	781.9	600.4	499.6	459.2	453.8	489.5	514.2
77.5°	2843.5	2178.0	1003.8	594.9	388.7	267.7	217.2	217.2	272.2	282.3	292.4
80°	1528.1	1104.6	459.2	237.4	136.6	90.8	70.6	70.6	96.2	106.3	100.8
82.5°	176.9	136.6	66.0	20.2	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	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

(END OF REPORT)