

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: 769011_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-2F-SG-XX-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769011_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-SG-XX-X
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE II DISTRIBUTION
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 25213.3 lumens
Efficiency: 76.4%
Efficacy: 63.5 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

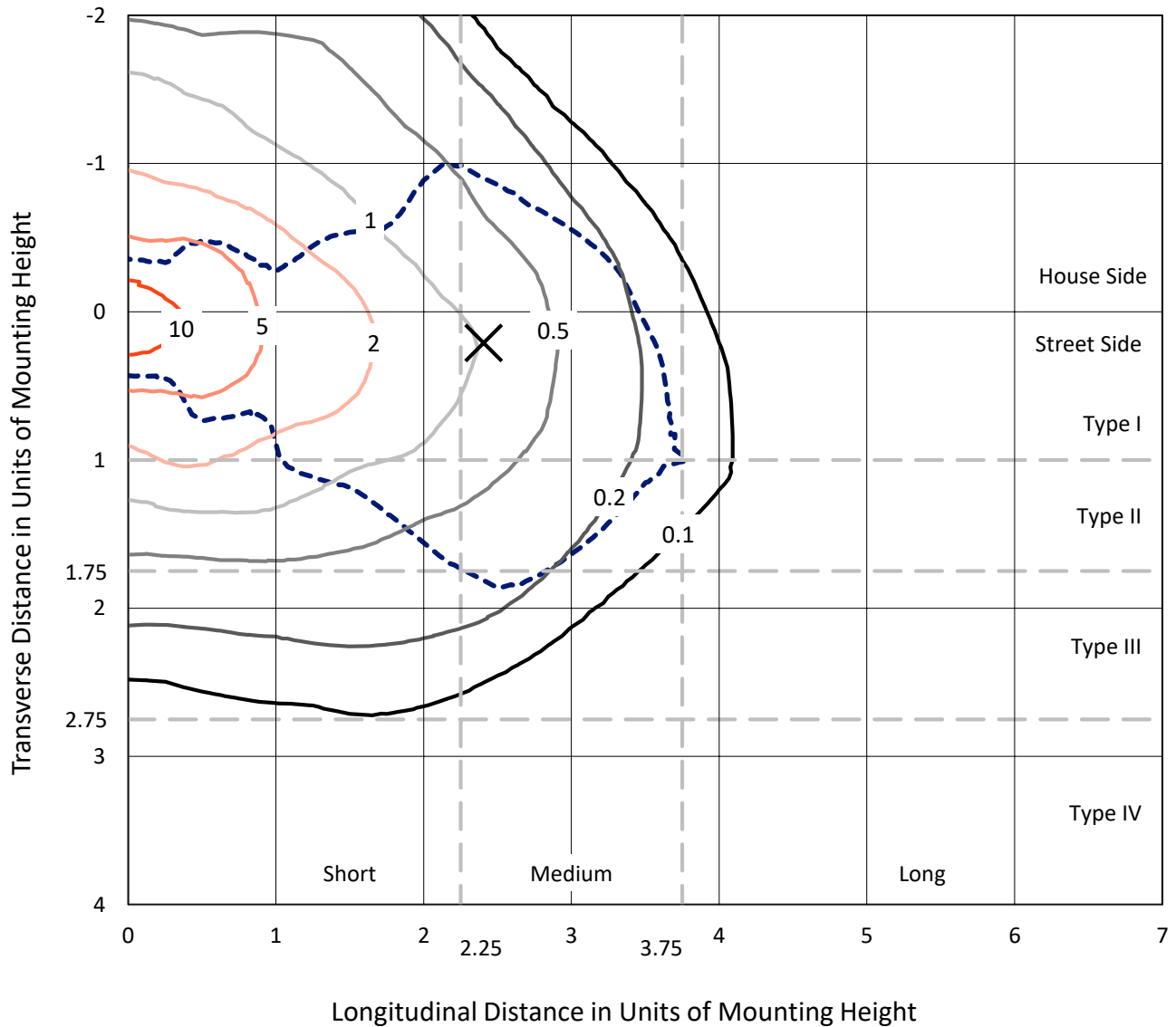
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

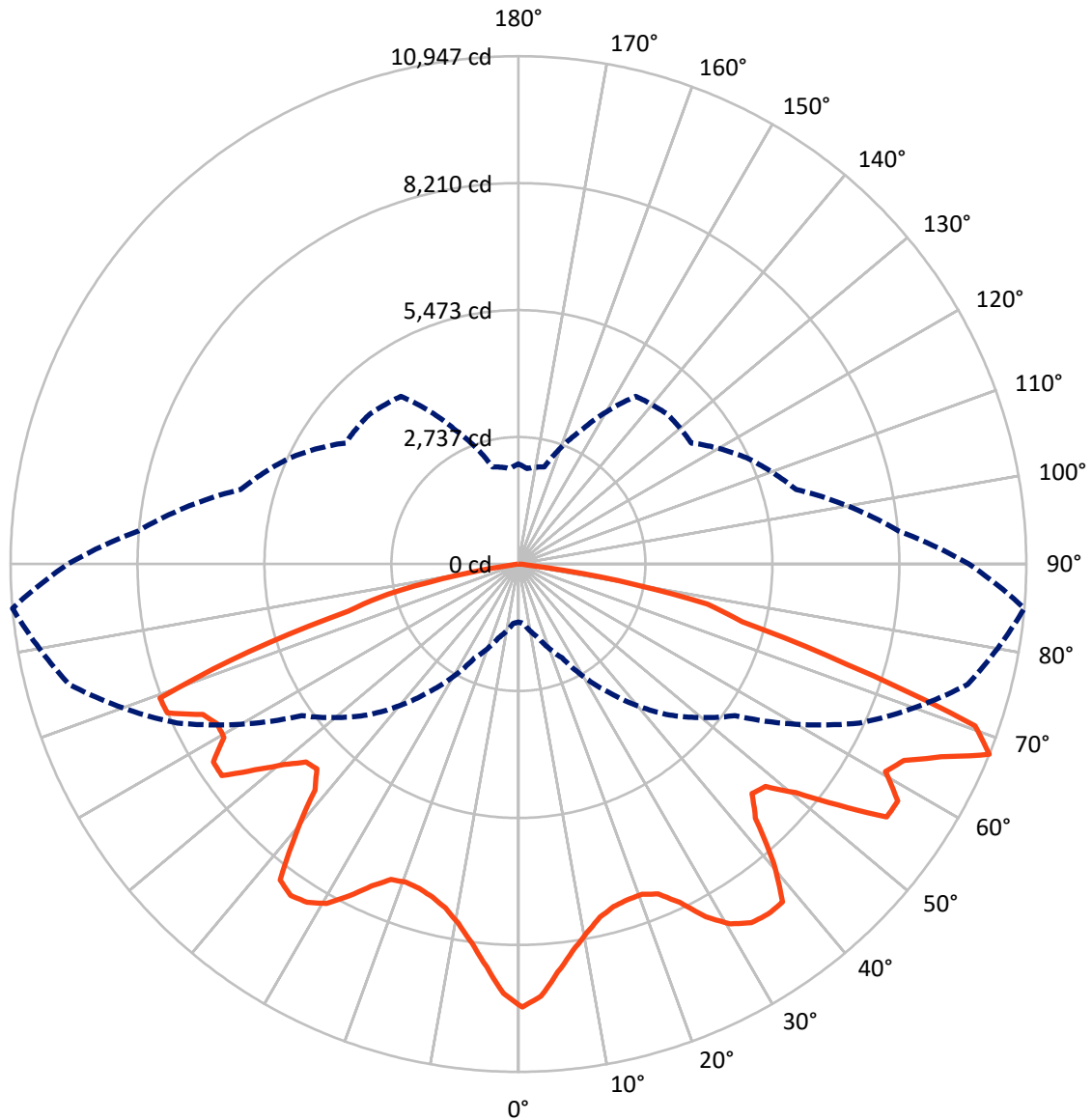
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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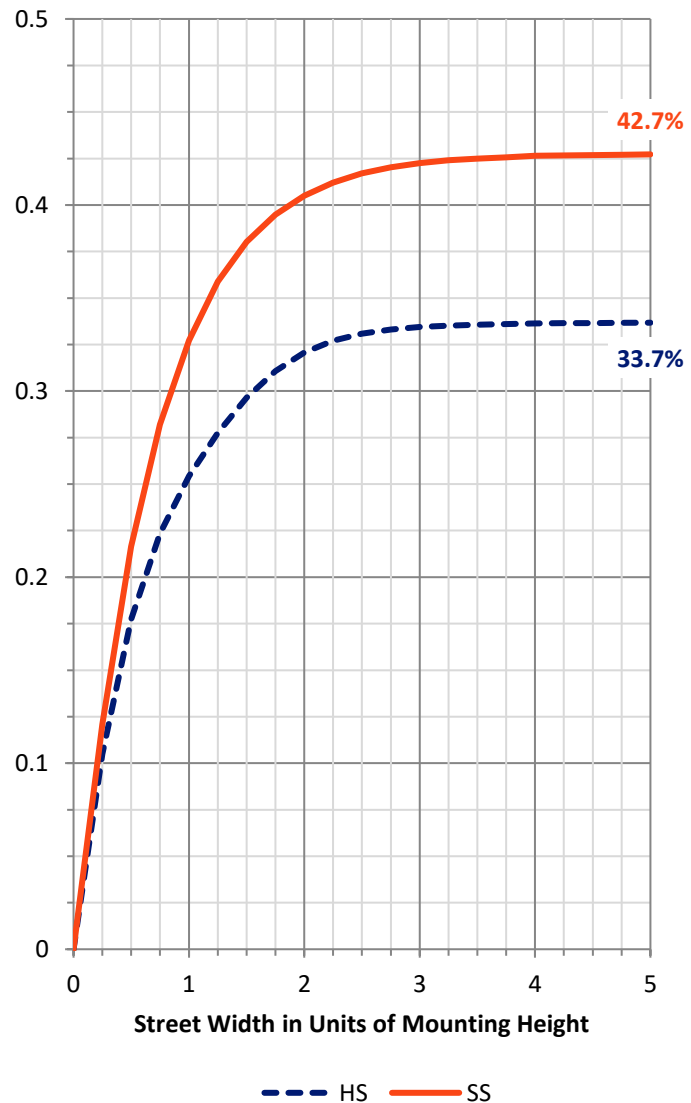
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11156.4	0.0	11156.4
	% Lamp	33.8	0.0	33.8
Street Side	Lumens	14056.9	0.0	14056.9
	% Lamp	42.6	0.0	42.6
Total	Lumens	25213.3	0.0	25213.3
	% Lamp	76.4	0.0	76.4

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	817.1	3.2	2.5
10°-20°	1990.0	7.9	6.0
20°-30°	2875.4	11.4	8.7
30°-40°	3772.3	15.0	11.4
40°-50°	3814.2	15.1	11.6
50°-60°	4575.9	18.1	13.9
60°-70°	4879.0	19.4	14.8
70°-80°	2377.1	9.4	7.2
80°-90°	112.1	0.4	0.3
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°	25213.3	100.0	76.4
0°-180°	25213.3	100.0	76.4



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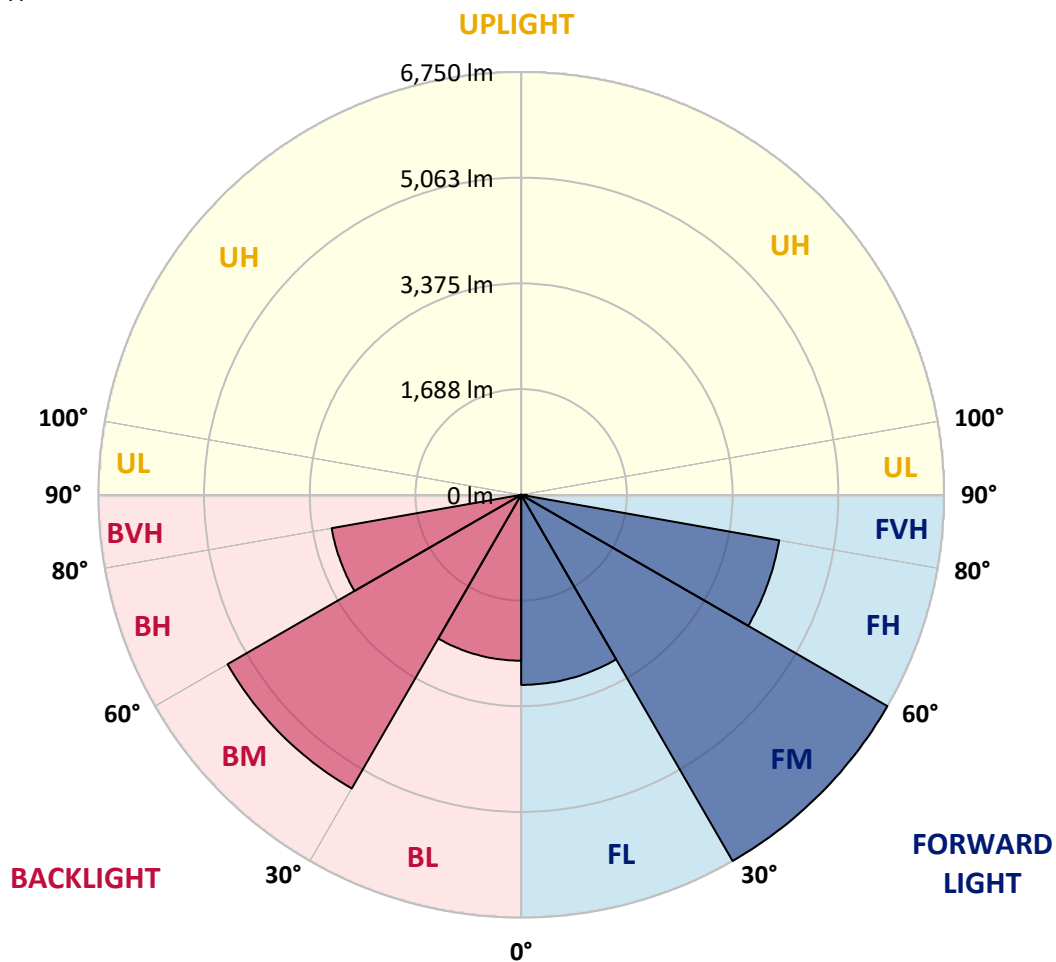
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3034.0	9.2			
FM	(30°-60°)	6750.1	20.5			
FH	(60°-80°)	4184.1	12.7			G2/5000
FVH	(80°-90°)	88.7	0.3			G1/100
BL	(0°-30°)	2648.6	8.0	B4/5000		
BM	(30°-60°)	5412.3	16.4	B4/8500		
BH	(60°-80°)	3072.1	9.3	B4/5000		G4/5000
BVH	(80°-90°)	23.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		7786.7	23.6			

BUG Rating: B4-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9549.8	9549.8	9549.8	9549.8	9549.8	9549.8	9549.8	9549.8	9549.8	9549.8	9549.8
2.5°	9781.8	9791.8	9777.2	9731.3	9670.8	9580.1	9519.6	9454.5	9394.0	9328.0	9303.2
5°	9781.8	9781.8	9736.8	9646.1	9529.7	9368.3	9227.2	9096.1	8965.0	8839.4	8768.8
7.5°	9338.1	9343.6	9297.8	9222.6	9136.4	9020.9	8869.7	8723.0	8577.2	8415.9	8319.7
10°	8682.7	8678.1	8652.4	8647.8	8622.2	8567.2	8521.3	8415.9	8274.8	8083.2	7972.2
12.5°	7966.8	7997.0	7997.0	8042.8	8093.2	8138.2	8138.2	8097.8	7976.8	7810.9	7714.7
15°	7281.1	7315.9	7402.1	7497.4	7603.8	7678.9	7780.7	7851.2	7795.3	7664.2	7553.3
17.5°	6676.1	6700.8	6821.8	6978.6	7099.6	7275.6	7487.3	7638.6	7694.5	7608.3	7482.8
20°	6071.1	6075.7	6222.3	6424.0	6630.2	6877.8	7230.7	7523.1	7654.2	7598.2	7482.8
22.5°	5496.3	5506.4	5682.4	5940.0	6212.2	6569.8	7039.1	7517.6	7770.6	7724.8	7557.9
25°	4992.2	5016.9	5188.3	5496.3	5889.6	6368.1	7023.5	7678.9	8128.1	8077.7	7901.7
27.5°	4548.5	4558.6	4760.2	5123.2	5611.8	6297.5	7174.8	8067.6	8622.2	8612.1	8339.8
30°	4195.6	4210.2	4432.1	4871.2	5476.2	6353.4	7422.2	8436.1	9035.6	9000.8	8733.1
32.5°	3861.9	3907.8	4256.1	4785.0	5496.3	6514.8	7598.2	8567.2	9232.7	9217.1	8930.2
35°	3569.5	3645.6	4099.3	4744.7	5597.2	6650.4	7593.7	8571.8	9273.0	9267.5	8990.7
37.5°	3347.7	3443.9	4028.8	4730.0	5692.5	6605.5	7497.4	8602.0	9438.9	9247.3	8899.9
40°	3156.1	3277.1	3988.4	4795.1	5611.8	6358.0	7336.1	8501.2	9015.4	8470.9	8022.7
42.5°	3004.8	3131.3	3988.4	4800.6	5304.8	5869.4	6811.8	7805.4	8052.9	7492.8	7043.7
45°	2914.1	3040.6	3923.3	4699.8	4861.1	5248.8	6050.9	6978.6	7432.3	7059.2	6680.7
47.5°	2813.2	2929.7	3851.8	4532.9	4609.0	4926.2	5571.5	6565.2	7361.8	7164.7	6791.6
50°	2712.4	2803.2	3640.1	4306.5	4623.7	4946.3	5486.2	6736.6	7800.8	7744.9	7321.4
52.5°	2621.7	2647.3	3377.9	4054.4	4760.2	5133.3	5712.7	7210.5	8652.4	8632.2	8027.2
55°	2409.9	2450.2	3030.5	3740.9	4760.2	5309.3	6055.5	7825.6	9525.1	9630.5	8869.7
57.5°	2268.8	2278.8	2631.8	3398.1	4573.2	5258.9	6202.2	8128.1	9746.9	9640.6	8813.8
60°	2137.7	2117.5	2365.0	3085.5	4180.0	4996.8	5980.3	8113.4	9101.6	9091.5	8395.8
62.5°	1946.1	1901.2	2133.1	2752.8	3776.7	4714.4	5672.3	8299.5	9232.7	9323.4	8450.8
65°	1562.9	1538.2	1855.3	2409.9	3488.8	4629.2	5682.4	8642.3	10033.8	10013.7	8859.6
67.5°	1250.3	1286.1	1643.6	2233.9	3367.8	4603.5	5698.0	8113.4	10023.8	10946.8	9711.2
70°	988.2	1018.4	1437.3	1981.8	3156.1	4432.1	5808.9	7654.2	9691.0	10442.7	9242.8
72.5°	685.7	715.9	1028.5	1663.8	2768.3	4048.9	5627.4	7200.4	8460.8	7416.8	6630.2
75°	463.8	463.8	600.4	978.1	1623.4	2299.0	3302.8	4417.4	5546.8	4976.6	4346.8
77.5°	302.5	277.8	197.1	242.0	443.7	1008.3	2002.0	3474.2	4951.8	4165.3	3514.5
80°	121.0	96.2	70.6	96.2	242.0	600.4	1205.4	2228.4	2954.4	2188.1	1790.2
82.5°	20.2	15.6	0.0	5.5	45.8	100.8	151.2	231.9	342.8	211.8	166.8
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°	9549.8	9549.8	9549.8	9549.8	9549.8	9549.8	9549.8	9549.8	9549.8	9549.8
2.5°	9262.9	9212.5	9146.5	9101.6	9081.4	9045.7	9031.0	9025.5	9031.0	9015.4
5°	8712.9	8612.1	8516.8	8420.5	8410.4	8410.4	8430.6	8430.6	8430.6	8440.7
7.5°	8228.9	8037.3	7855.8	7729.3	7628.5	7644.1	7699.1	7724.8	7684.4	7684.4
10°	7851.2	7608.3	7386.5	7150.0	6983.2	6928.2	7043.7	7094.1	7063.8	7059.2
12.5°	7578.1	7285.7	7029.0	6746.7	6545.0	6408.4	6555.1	6620.2	6595.4	6575.2
15°	7412.2	7089.5	6781.5	6464.3	6192.1	6035.3	6121.5	6141.7	6065.6	6050.9
17.5°	7311.3	6932.8	6579.8	6206.8	5944.6	5738.3	5738.3	5748.4	5652.2	5637.5
20°	7275.6	6801.7	6408.4	6065.6	5798.8	5521.1	5379.9	5410.2	5314.8	5294.7
22.5°	7331.5	6807.2	6317.7	5970.2	5738.3	5319.4	5002.2	5032.5	5042.6	5012.3
25°	7623.9	7023.5	6454.2	6050.9	5698.0	5158.1	4734.6	4563.2	4724.5	4719.9
27.5°	8022.7	7326.0	6645.8	6136.2	5712.7	5077.4	4508.2	4155.2	4316.6	4316.6
30°	8405.8	7628.5	6908.0	6247.1	5601.8	4951.8	4286.3	3827.1	3927.9	3923.3
32.5°	8597.4	7855.8	7109.7	6313.1	5581.6	4911.5	4048.9	3569.5	3579.6	3569.5
35°	8668.0	7841.2	6928.2	6061.0	5284.6	4528.3	3827.1	3367.8	3357.8	3367.8
37.5°	8531.4	7658.8	6680.7	5702.6	4921.6	4256.1	3575.0	3222.1	3262.4	3297.2
40°	7543.2	6670.6	5803.4	4911.5	4260.7	3827.1	3408.2	3131.3	3236.8	3317.4
42.5°	6555.1	5738.3	5032.5	4301.0	3791.3	3458.6	3222.1	3055.2	3191.8	3277.1
45°	6192.1	5400.1	4800.6	4195.6	3680.4	3292.7	3080.9	2990.2	3201.9	3297.2
47.5°	6257.2	5390.0	4754.8	4210.2	3716.2	3246.8	3030.5	2964.5	3337.6	3478.8
50°	6650.4	5561.4	4785.0	4210.2	3726.2	3262.4	3131.3	3050.7	3609.8	3851.8
52.5°	7205.0	5768.6	4891.3	4200.2	3706.1	3322.9	3337.6	3337.6	4094.8	4437.6
55°	7851.2	5934.5	4941.8	4190.1	3700.6	3454.0	3585.1	3635.5	4356.9	4689.7
57.5°	7841.2	5859.3	4901.4	4205.7	3791.3	3680.4	3903.2	3791.3	4260.7	4417.4
60°	7366.3	5566.9	4825.3	4286.3	3933.4	3983.8	4205.7	3696.0	3883.0	4004.0
62.5°	7346.2	5642.1	4982.1	4437.6	4159.8	4361.5	4119.5	3242.2	3383.4	3519.1
65°	7533.2	5974.8	5289.2	4623.7	4512.8	4664.0	3751.0	2707.8	2818.8	2904.0
67.5°	8218.8	6196.7	5420.2	4548.5	4553.1	4411.9	3166.2	2167.9	2067.1	2157.8
70°	8249.1	5617.3	4508.2	3585.1	3660.2	3403.6	2520.8	1653.7	1351.2	1411.7
72.5°	6095.8	3887.6	2445.7	1673.8	1653.7	1512.5	1316.3	892.8	761.8	796.6
75°	3806.9	2218.3	1155.0	756.2	610.5	534.4	473.9	363.0	368.5	373.1
77.5°	2883.8	1346.6	610.5	368.5	272.2	211.8	191.6	181.5	181.5	181.5
80°	1376.8	560.1	231.9	131.1	86.2	55.9	55.9	55.9	60.5	60.5
82.5°	121.0	55.9	10.1	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)