

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P638765

Luminaire Tested: GWS-SA4F-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25486.4 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

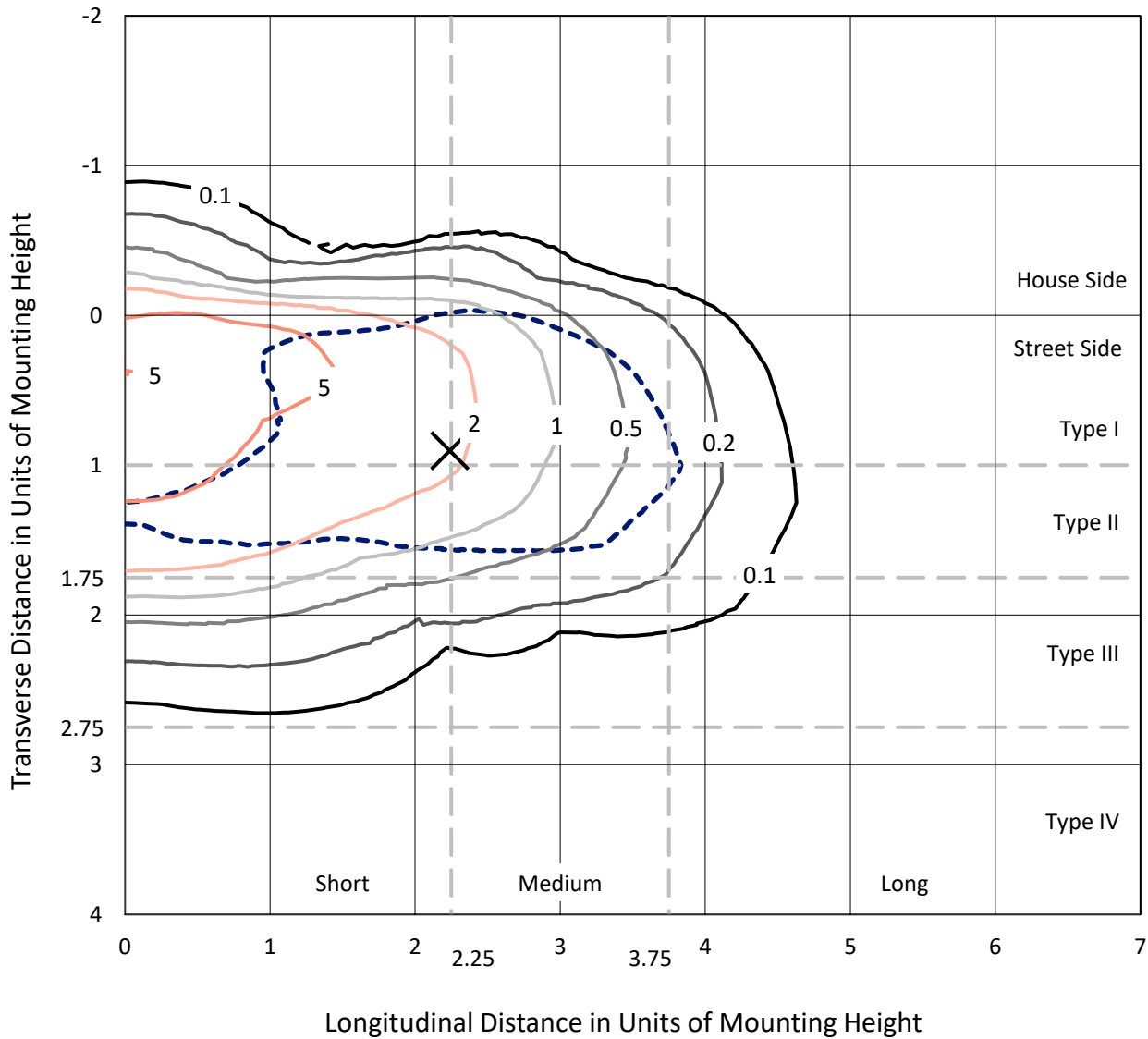
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

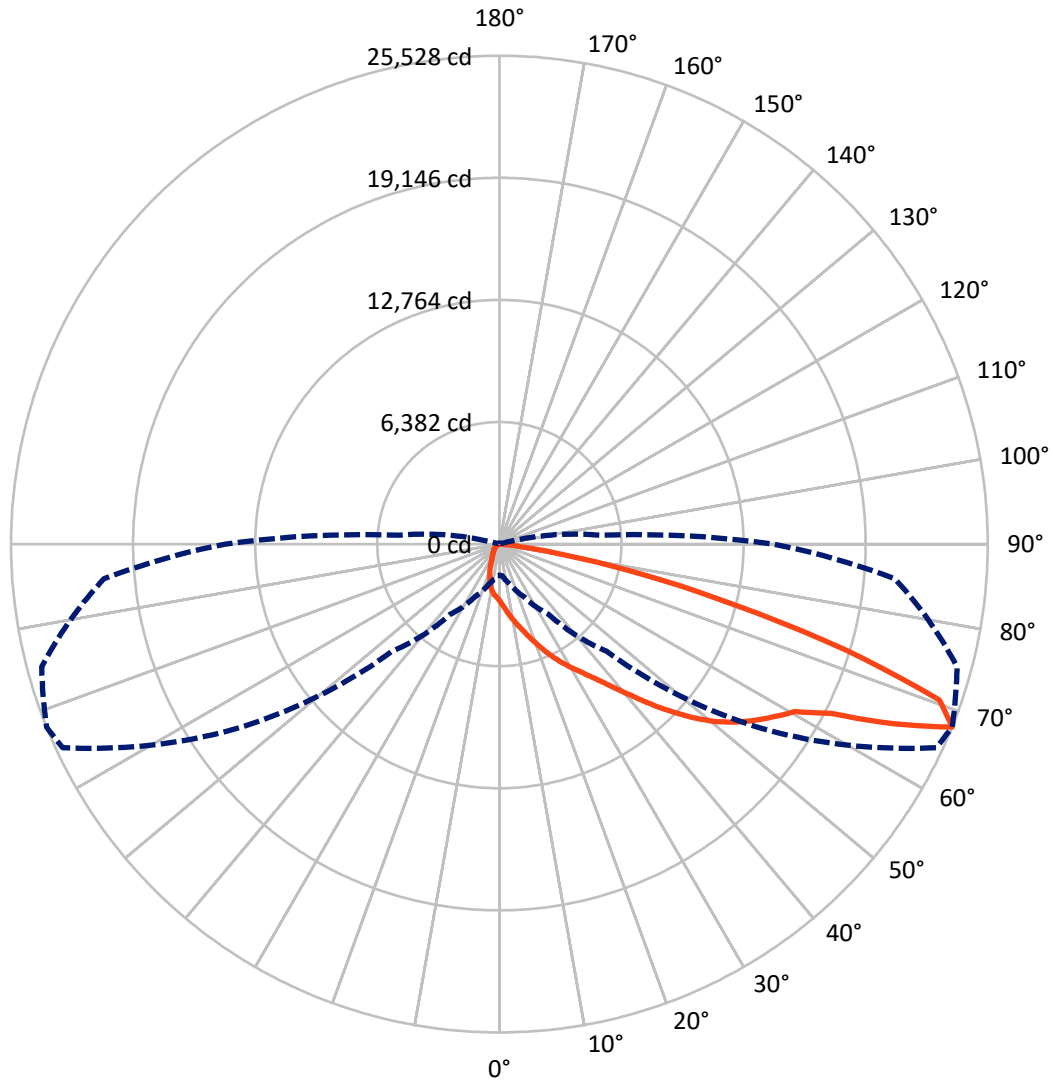
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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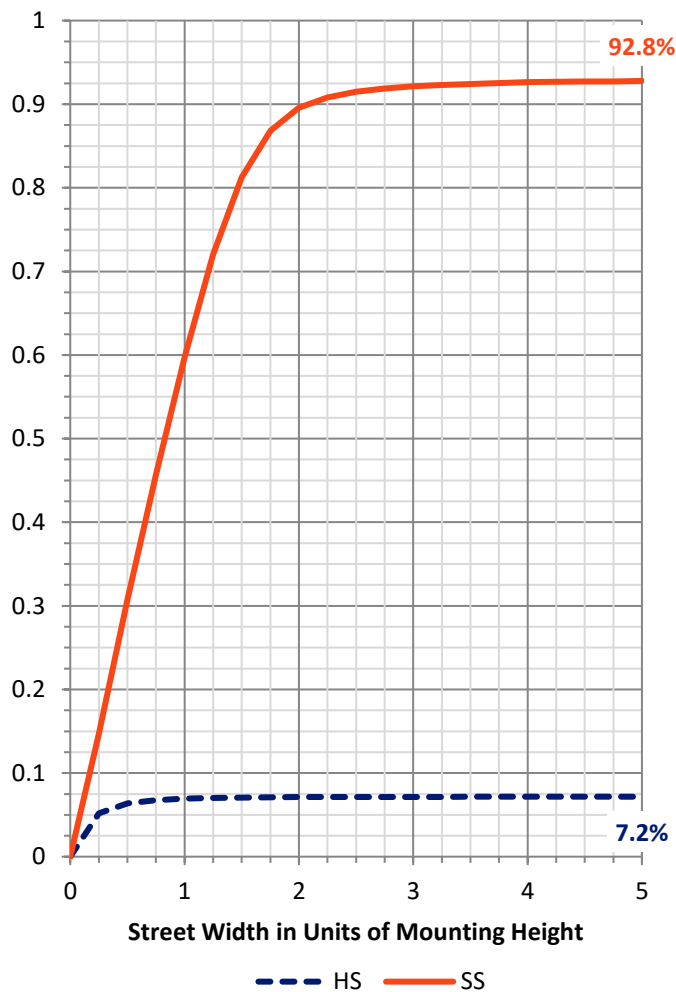
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1840.4	0.0	1840.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	23646.0	0.0	23646.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	25486.4	0.0	25486.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.3	1.1
10°-20°	830.7	3.3
20°-30°	1427.6	5.6
30°-40°	2482.0	9.7
40°-50°	4330.8	17.0
50°-60°	6532.0	25.6
60°-70°	6549.9	25.7
70°-80°	2889.8	11.3
80°-90°	154.4	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25486.4	100.0
0°-180°	25486.4	100.0

Coefficient of Utilization



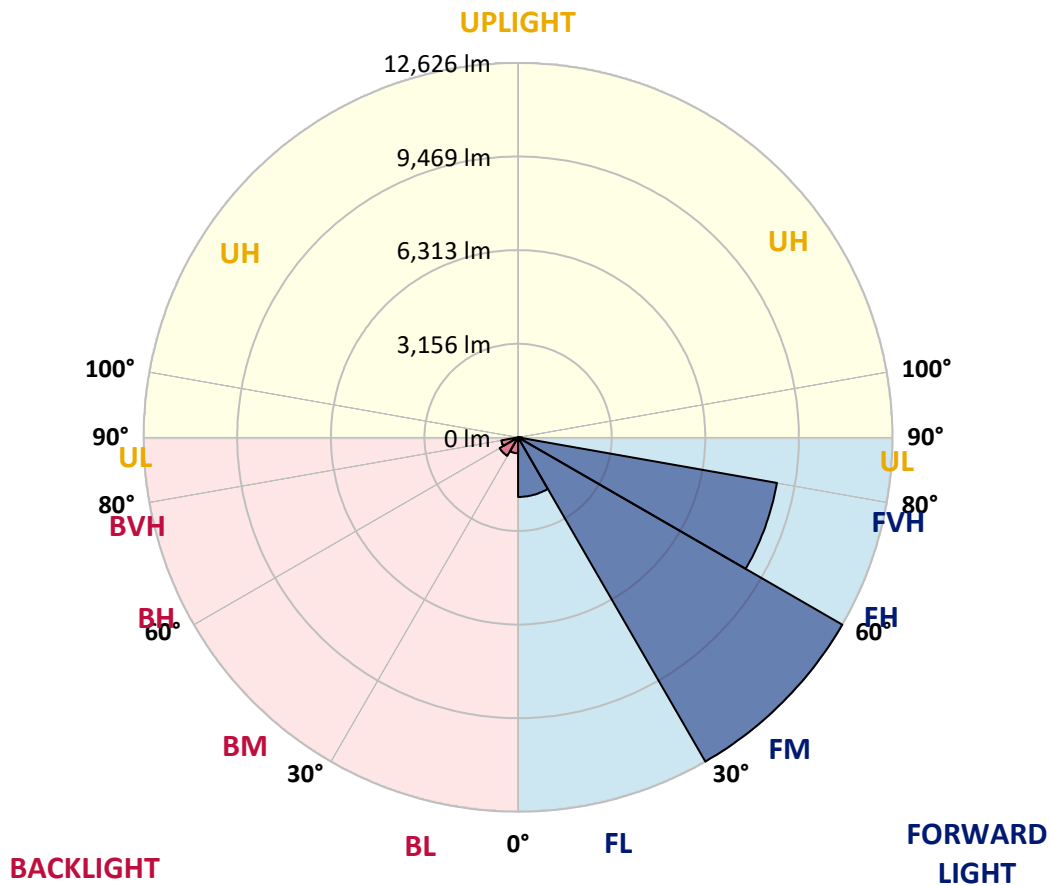
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2009.1	7.9			
FM (30°-60°)	12625.9	49.5			
FH (60°-80°)	8865.3	34.8			G4/12000
FVH (80°-90°)	145.6	0.6			G2/225
BL (0°-30°)	538.4	2.1	B2/1000		
BM (30°-60°)	718.9	2.8	B1/1000		
BH (60°-80°)	574.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2966.0	2966.0	2966.0	2966.0	2966.0	2966.0	2966.0	2966.0	2966.0	2966.0	2966.0
2.5°	3453.8	3475.7	3453.8	3458.7	3395.3	3366.0	3302.6	3214.8	3192.8	3136.7	3051.3
5°	3875.8	3895.3	3873.3	3868.4	3795.3	3741.6	3636.7	3485.5	3441.6	3331.8	3163.5
7.5°	4105.0	4117.2	4124.6	4136.7	4109.9	4066.0	3970.9	3783.1	3736.7	3558.7	3322.1
10°	4129.4	4139.2	4175.8	4248.9	4302.6	4329.4	4275.8	4102.6	4029.4	3856.2	3517.2
12.5°	4061.1	4075.8	4134.3	4256.3	4405.0	4541.6	4575.8	4424.6	4358.7	4136.7	3746.5
15°	3970.9	3983.1	4063.6	4229.4	4453.8	4705.1	4846.5	4780.7	4707.5	4475.8	4000.2
17.5°	3831.9	3848.9	3961.1	4185.5	4475.8	4834.3	5139.2	5161.2	5110.0	4858.7	4280.7
20°	3753.8	3766.0	3866.0	4097.7	4461.1	4929.5	5412.4	5619.7	5563.6	5300.2	4602.6
22.5°	3819.7	3829.4	3895.3	4075.8	4412.4	4983.1	5666.1	6078.3	6046.6	5773.4	4941.7
25°	4166.0	4197.7	4158.7	4190.4	4434.3	5012.4	5871.0	6536.8	6544.2	6268.5	5292.9
27.5°	4868.5	4827.0	4734.3	4575.8	4605.1	5090.4	6046.6	6968.6	7032.0	6751.5	5605.1
30°	5583.1	5558.8	5502.7	5256.3	5051.4	5263.6	6195.4	7410.0	7510.0	7227.1	5883.2
32.5°	6385.6	6410.0	6310.0	6014.9	5666.1	5614.9	6349.0	7829.6	8017.4	7766.2	6210.0
35°	7344.2	7351.5	7153.9	6827.1	6432.0	6195.4	6624.6	8293.0	8639.4	8454.0	6646.6
37.5°	8278.4	8322.3	8215.0	7700.3	7349.1	6917.3	7080.8	8888.2	9376.0	9302.8	7195.4
40°	9105.2	9173.5	9139.4	8641.8	8180.8	7817.4	7788.1	9585.7	10266.3	10349.2	7919.8
42.5°	9763.8	9807.7	9834.5	9480.9	9073.5	8868.6	8661.3	10395.5	11317.5	11656.6	8807.7
45°	10458.9	10473.6	10529.7	10290.6	9934.5	9951.6	9693.1	11378.5	12424.9	13105.4	9827.2
47.5°	11344.3	11393.1	11366.3	11115.1	10793.1	10985.8	10759.0	12390.7	13517.6	14651.8	10871.2
50°	12422.4	12473.7	12449.3	12156.6	11798.0	11878.5	11737.0	13373.7	14571.3	16110.4	11739.5
52.5°	12978.6	13020.0	13322.5	13454.2	13266.4	12754.2	12571.2	14454.2	15461.6	17310.4	12537.1
55°	12710.3	12739.5	13398.1	13954.2	14642.0	14129.8	13410.3	15288.4	16247.0	18247.1	13129.8
57.5°	11598.0	11756.6	12651.7	13593.2	15039.6	15488.4	14771.3	16195.8	17003.1	18898.3	13712.7
60°	9317.4	9310.1	10593.1	12283.4	14264.0	15861.6	16693.3	17422.6	17761.7	19398.3	14493.2
62.5°	5149.0	5195.3	6902.7	9129.6	12107.8	14895.7	18134.9	19542.2	19491.0	20271.5	15715.2
65°	2563.5	2656.2	3583.1	5229.5	8056.4	12310.2	18383.6	22776.5	22630.1	22327.7	18239.7
67.5°	1626.9	1663.5	2175.7	3039.1	4478.2	7912.5	16834.8	25188.8	25527.8	24766.8	20744.7
70°	1053.7	1114.7	1512.3	2078.1	2702.5	4078.2	12332.2	23625.3	24403.4	24498.5	19183.7
72.5°	573.2	617.1	965.9	1483.0	1951.3	2039.1	6927.1	17730.0	18981.2	20781.3	15007.9
75°	326.8	358.6	529.3	1007.4	1431.8	1241.5	3070.9	11868.8	12666.3	14851.8	10754.1
77.5°	197.6	224.4	297.6	490.3	897.6	829.3	1161.0	7224.7	7732.0	8861.3	5644.1
80°	90.2	107.3	187.8	270.7	490.3	392.7	443.9	3368.4	3478.2	3636.7	1868.4
82.5°	41.5	48.8	85.4	161.0	278.1	226.8	170.7	778.1	1095.2	1036.6	475.6
85°	4.9	4.9	31.7	65.9	78.1	58.5	70.7	175.6	222.0	312.2	136.6
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	14.6	22.0	31.7	51.2	34.1
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°	2966.0	2966.0	2966.0	2966.0	2966.0	2966.0	2966.0	2966.0	2966.0	2966.0	2966.0
2.5°	3012.3	2944.0	2883.0	2792.8	2731.8	2663.5	2617.2	2561.1	2539.1	2522.0	2497.7
5°	3080.6	2970.8	2822.1	2656.2	2519.6	2390.3	2270.8	2192.8	2124.5	2114.7	2080.6
7.5°	3192.8	3029.4	2778.2	2507.4	2275.7	2061.1	1892.8	1756.2	1687.9	1665.9	1626.9
10°	3341.6	3117.2	2712.3	2297.7	1963.5	1707.4	1517.1	1363.5	1256.1	1217.1	1187.9
12.5°	3507.5	3197.7	2607.4	2039.1	1658.6	1365.9	1124.4	961.0	892.7	868.3	846.4
15°	3697.7	3273.3	2441.6	1780.6	1361.0	1004.9	834.2	763.4	734.2	726.9	719.5
17.5°	3880.6	3322.1	2244.0	1512.3	1046.4	780.5	700.0	673.2	665.9	658.6	653.7
20°	4088.0	3356.2	2012.3	1258.6	812.2	661.0	622.0	602.5	587.8	573.2	570.8
22.5°	4300.2	3356.2	1761.0	1009.8	680.5	592.7	548.8	512.2	485.4	470.8	465.9
25°	4502.6	3309.9	1512.3	807.3	600.0	526.8	470.8	429.3	392.7	375.6	370.7
27.5°	4646.5	3190.4	1295.2	683.0	543.9	468.3	400.0	353.7	324.4	307.3	304.9
30°	4736.8	3012.3	1095.2	609.8	495.1	407.3	339.0	300.0	278.1	265.9	261.0
32.5°	4805.1	2792.8	917.1	558.6	448.8	353.7	295.1	263.4	243.9	234.2	231.7
35°	4941.7	2585.5	785.4	512.2	400.0	309.8	258.5	234.2	219.5	207.3	204.9
37.5°	5131.9	2412.3	680.5	470.8	353.7	275.6	234.2	212.2	200.0	187.8	185.4
40°	5412.4	2302.5	602.5	429.3	312.2	248.8	214.6	195.1	178.1	165.9	163.4
42.5°	5844.1	2251.3	551.2	387.8	275.6	224.4	197.6	173.2	156.1	143.9	141.5
45°	6358.8	2278.1	507.3	346.4	251.2	207.3	175.6	151.2	134.2	122.0	119.5
47.5°	6910.0	2373.3	470.8	307.3	226.8	190.3	156.1	129.3	114.6	102.4	100.0
50°	7485.7	2529.4	439.0	270.7	207.3	170.7	134.2	112.2	97.6	87.8	85.4
52.5°	7985.7	2741.6	407.3	243.9	190.3	151.2	117.1	97.6	82.9	73.2	70.7
55°	8463.7	2941.6	382.9	219.5	170.7	131.7	102.4	82.9	70.7	61.0	58.5
57.5°	8983.3	3153.8	353.7	197.6	153.7	117.1	90.2	70.7	61.0	51.2	48.8
60°	9739.4	3468.4	309.8	180.5	134.2	102.4	78.1	63.4	53.7	41.5	39.0
62.5°	10829.7	4041.6	261.0	156.1	114.6	87.8	65.9	53.7	43.9	34.1	29.3
65°	12868.8	5017.3	214.6	129.3	92.7	73.2	56.1	43.9	34.1	24.4	22.0
67.5°	14337.1	5270.9	173.2	104.9	75.6	56.1	46.3	34.1	24.4	17.1	14.6
70°	12534.6	3785.5	134.2	85.4	63.4	43.9	36.6	26.8	17.1	12.2	9.8
72.5°	9444.3	2473.3	100.0	65.9	48.8	36.6	26.8	22.0	14.6	9.8	7.3
75°	6656.4	1429.3	73.2	48.8	34.1	26.8	22.0	17.1	12.2	7.3	7.3
77.5°	3412.3	590.3	51.2	34.1	24.4	17.1	14.6	9.8	9.8	7.3	4.9
80°	1036.6	195.1	29.3	22.0	17.1	12.2	7.3	7.3	7.3	4.9	2.4
82.5°	236.6	63.4	17.1	17.1	12.2	9.8	7.3	2.4	2.4	0.0	0.0
85°	61.0	19.5	14.6	12.2	12.2	9.8	4.9	2.4	0.0	0.0	0.0
87.5°	22.0	12.2	12.2	12.2	9.8	7.3	4.9	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)