

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: P459232

Luminaire Tested: **GALN-SA7A-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23231 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

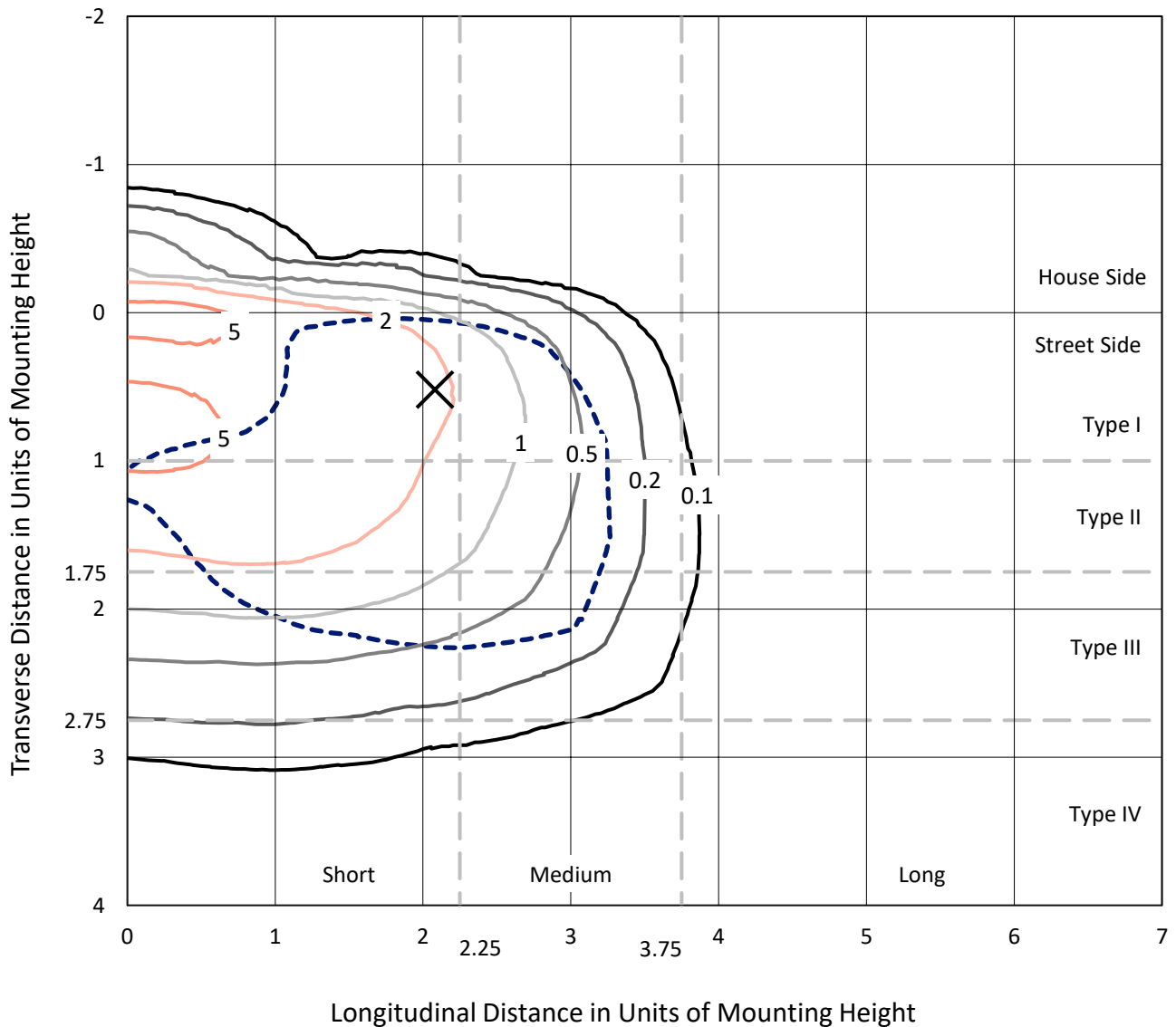
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

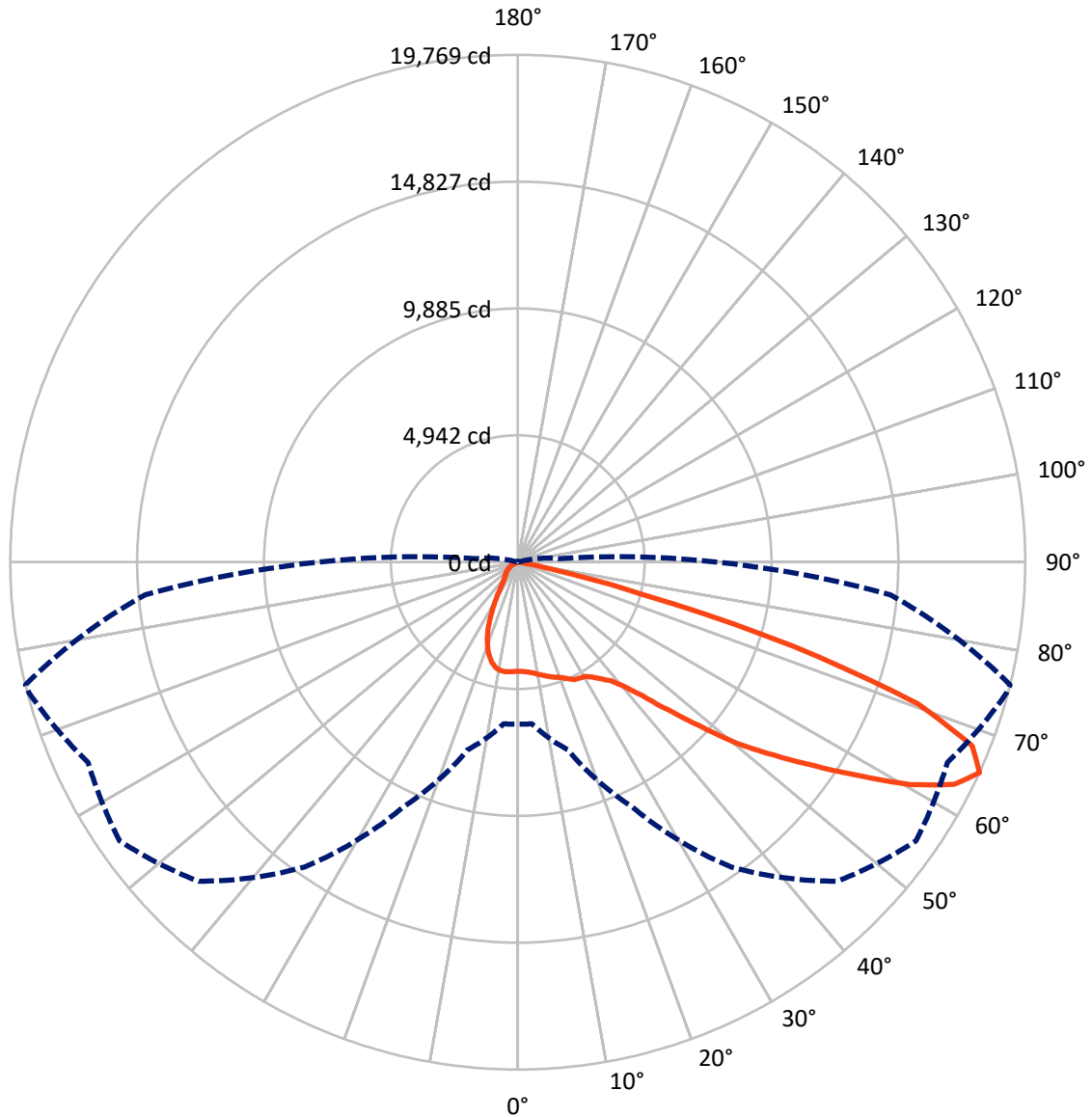
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1677.7	0.0	1677.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21553.3	0.0	21553.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	23231.0	0.0	23231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.1	1.5
10°-20°	779.5	3.4
20°-30°	1256.0	5.4
30°-40°	2184.0	9.4
40°-50°	3608.8	15.5
50°-60°	5574.9	24.0
60°-70°	6807.8	29.3
70°-80°	2583.7	11.1
80°-90°	86.2	0.4
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°	23231.0	100.0
0°-180°	23231.0	100.0

Coefficient of Utilization



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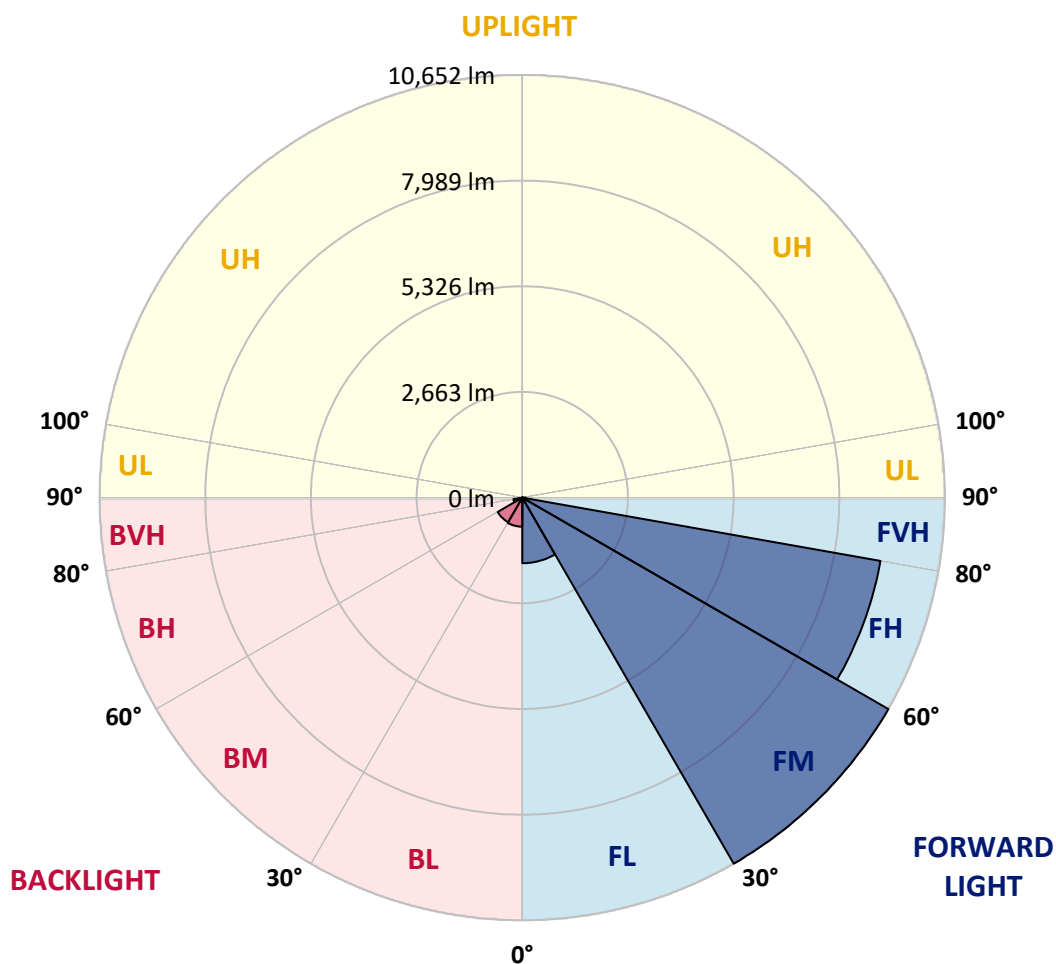
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.6	7.1			
FM (30°-60°)	10651.8	45.9			
FH (60°-80°)	9163.8	39.4			G4/12000
FVH (80°-90°)	85.0	0.4			G1/100
BL (0°-30°)	733.0	3.2	B2/1000		
BM (30°-60°)	715.9	3.1	B1/1000		
BH (60°-80°)	227.6	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7
2.5°	4061.1	4062.7	4072.6	4097.2	4134.9	4166.0	4192.3	4234.9	4264.5	4267.7	4277.6
5°	3780.6	3760.9	3780.6	3844.6	3902.0	3988.9	4095.5	4202.1	4297.3	4303.8	4349.7
7.5°	3465.7	3482.1	3513.3	3578.9	3687.1	3820.0	3974.1	4164.4	4344.8	4361.2	4451.4
10°	3145.9	3181.9	3232.8	3332.8	3483.7	3655.9	3865.9	4138.2	4420.3	4443.2	4599.0
12.5°	2850.6	2867.0	2929.4	3063.8	3250.8	3493.6	3783.9	4123.4	4503.9	4531.8	4756.5
15°	2624.3	2645.6	2699.7	2821.1	3029.4	3341.0	3716.6	4118.5	4585.9	4625.3	4914.0
17.5°	2581.6	2594.8	2617.7	2699.7	2881.8	3219.7	3655.9	4116.8	4664.7	4712.2	5059.9
20°	2757.1	2745.7	2722.7	2714.5	2814.5	3126.2	3611.7	4130.0	4740.1	4794.2	5214.1
22.5°	3196.7	3211.5	3077.0	2917.9	2885.1	3111.4	3605.1	4192.3	4859.8	4923.8	5386.3
25°	4130.0	4016.8	3806.8	3426.3	3139.3	3201.6	3678.9	4339.9	4999.3	5069.8	5542.1
27.5°	5161.6	5127.2	4800.8	4174.2	3639.5	3391.9	3810.1	4453.1	5045.2	5117.3	5630.7
30°	6175.3	6216.3	5842.3	5150.1	4366.1	3744.5	3933.1	4495.7	5086.2	5161.6	5743.9
32.5°	7115.1	7164.3	6836.2	6150.7	5222.3	4354.7	4144.7	4661.4	5258.4	5335.5	5932.5
35°	7854.8	7861.4	7613.7	7067.5	6157.2	5096.0	4602.3	4951.7	5491.3	5581.5	6132.6
37.5°	8533.8	8524.0	8233.7	7762.9	6936.3	5832.5	5178.0	5286.3	5757.0	5850.5	6421.3
40°	9037.4	9043.9	8950.4	8507.6	7662.9	6513.1	5634.0	5599.6	6203.1	6349.1	6841.2
42.5°	9373.6	9434.3	9480.2	9255.5	8576.5	7351.3	6334.4	6270.4	6977.3	7098.7	7434.9
45°	9645.9	9754.1	9983.7	9972.3	9454.0	8379.6	7295.5	7164.3	8074.6	8204.2	8191.0
47.5°	9844.3	9954.2	10334.7	10564.4	10279.0	9376.9	8504.3	8391.1	9385.1	9526.1	9025.9
50°	9946.0	10077.2	10562.7	11007.2	10923.6	10338.0	9882.0	9888.6	10967.8	11104.0	9993.6
52.5°	9708.2	9878.8	10684.1	11484.5	11646.9	11258.2	11172.9	11389.4	12376.8	12493.2	10867.8
55°	8948.8	9163.7	10518.4	11891.3	12485.0	12344.0	12639.2	12968.9	13916.9	13992.3	11765.0
57.5°	8468.2	8696.2	10029.7	12237.3	13492.1	13708.6	14176.0	14417.1	15506.2	15698.1	12795.0
60°	8063.1	8241.9	9627.8	12311.1	14515.5	15378.3	15832.6	16081.9	17467.9	17592.5	13928.4
62.5°	7389.0	7594.0	8948.8	11796.1	15030.6	16715.0	17656.5	17544.9	18985.0	19071.9	14623.8
65°	6304.8	6322.9	7571.0	10502.0	14499.1	17582.7	18937.5	18470.0	19710.0	19769.0	14569.7
67.5°	4705.7	4879.5	5824.3	8255.0	12247.2	16841.3	19352.4	18494.6	19252.4	19088.3	13413.3
70°	3031.0	3163.9	3947.9	5724.2	8830.7	14054.7	17976.3	17226.7	16897.1	16533.0	10979.3
72.5°	1399.1	1569.6	2345.4	3270.5	5237.1	10011.6	14592.6	13995.6	12161.9	11263.1	6978.9
75°	610.1	652.8	1158.0	1725.5	2455.3	5294.5	9621.3	8688.0	5492.9	5017.3	2793.2
77.5°	372.3	400.2	606.9	925.1	964.4	2017.4	5183.0	3790.4	1697.6	1497.5	757.8
80°	252.6	283.8	441.2	483.9	329.7	562.6	1945.2	1012.0	342.8	328.0	162.4
82.5°	123.0	155.8	326.4	270.6	142.7	180.4	565.9	216.5	100.1	93.5	57.4
85°	18.0	31.2	183.7	177.1	64.0	42.6	100.1	54.1	34.4	32.8	26.2
87.5°	0.0	0.0	62.3	27.9	6.6	6.6	11.5	11.5	13.1	11.5	13.1
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°	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7	4249.7
2.5°	4282.5	4290.7	4259.5	4215.2	4167.7	4120.1	4052.9	3992.2	3956.1	3977.4	3924.9
5°	4359.6	4353.0	4271.0	4136.5	3957.7	3742.9	3529.7	3347.6	3288.5	3200.0	3190.1
7.5°	4466.2	4448.2	4274.3	3965.9	3562.5	3159.0	2765.3	2504.5	2355.3	2229.0	2232.3
10°	4615.5	4563.0	4236.6	3665.8	3001.5	2393.0	1891.1	1546.7	1397.4	1349.9	1312.1
12.5°	4769.6	4667.9	4131.6	3260.7	2337.2	1635.3	1149.8	939.8	848.0	818.4	815.2
15°	4907.4	4746.7	3947.9	2773.5	1699.2	1044.8	784.0	715.1	703.6	705.3	703.6
17.5°	5043.5	4809.0	3693.7	2256.9	1154.7	749.6	674.1	657.7	662.6	669.2	667.6
20°	5156.7	4822.1	3368.9	1722.2	816.8	657.7	633.1	629.8	634.7	639.7	639.7
22.5°	5279.7	4832.0	2983.5	1192.4	667.6	611.8	598.7	598.7	605.2	611.8	613.4
25°	5371.6	4777.8	2522.6	856.2	588.8	567.5	560.9	562.6	569.1	572.4	570.8
27.5°	5386.3	4625.3	2033.8	656.1	534.7	513.4	506.8	513.4	505.2	510.1	506.8
30°	5399.5	4431.8	1538.5	552.7	485.5	452.7	442.8	433.0	426.4	418.2	416.6
32.5°	5440.5	4203.8	1123.5	497.0	439.6	403.5	380.5	352.6	331.3	324.8	323.1
35°	5458.5	3929.9	825.0	452.7	398.6	359.2	318.2	278.8	247.7	236.2	244.4
37.5°	5527.4	3664.1	639.7	419.9	362.5	313.3	260.8	211.6	182.1	175.5	178.8
40°	5668.4	3375.5	536.3	392.0	331.3	270.6	206.7	159.1	139.4	132.9	131.2
42.5°	5894.8	3088.4	477.3	365.8	300.2	228.0	162.4	124.7	108.3	103.3	103.3
45°	6170.3	2812.9	436.3	337.9	267.3	183.7	127.9	100.1	90.2	86.9	86.9
47.5°	6532.8	2571.8	401.8	310.0	231.3	146.0	103.3	86.9	80.4	82.0	83.6
50°	6900.2	2393.0	364.1	278.8	190.3	119.7	88.6	77.1	75.4	77.1	77.1
52.5°	7177.4	2288.0	313.3	236.2	149.3	100.1	78.7	72.2	70.5	67.2	67.2
55°	7551.4	2265.1	249.3	191.9	118.1	83.6	70.5	65.6	60.7	57.4	55.8
57.5°	8031.9	2291.3	191.9	149.3	91.8	68.9	62.3	54.1	47.6	41.0	41.0
60°	8330.4	2232.3	149.3	114.8	67.2	55.8	47.6	39.4	31.2	26.2	24.6
62.5°	8235.3	1983.0	118.1	85.3	47.6	41.0	31.2	26.2	18.0	13.1	11.5
65°	7744.9	1600.8	95.1	59.0	34.4	24.6	16.4	16.4	8.2	1.6	0.0
67.5°	6778.8	1185.8	75.4	39.4	19.7	11.5	8.2	4.9	0.0	0.0	0.0
70°	5517.5	856.2	59.0	24.6	11.5	8.2	3.3	1.6	0.0	0.0	0.0
72.5°	3503.4	490.4	45.9	14.8	8.2	3.3	0.0	0.0	0.0	0.0	0.0
75°	1354.8	191.9	31.2	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	383.8	90.2	18.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	100.1	39.4	9.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.6	16.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.9	6.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	1.6	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)