

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: P529247

Luminaire Tested: **GALN-SA4B-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-827-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9677 lumens  
Efficiency: N/A  
Efficacy: 59.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

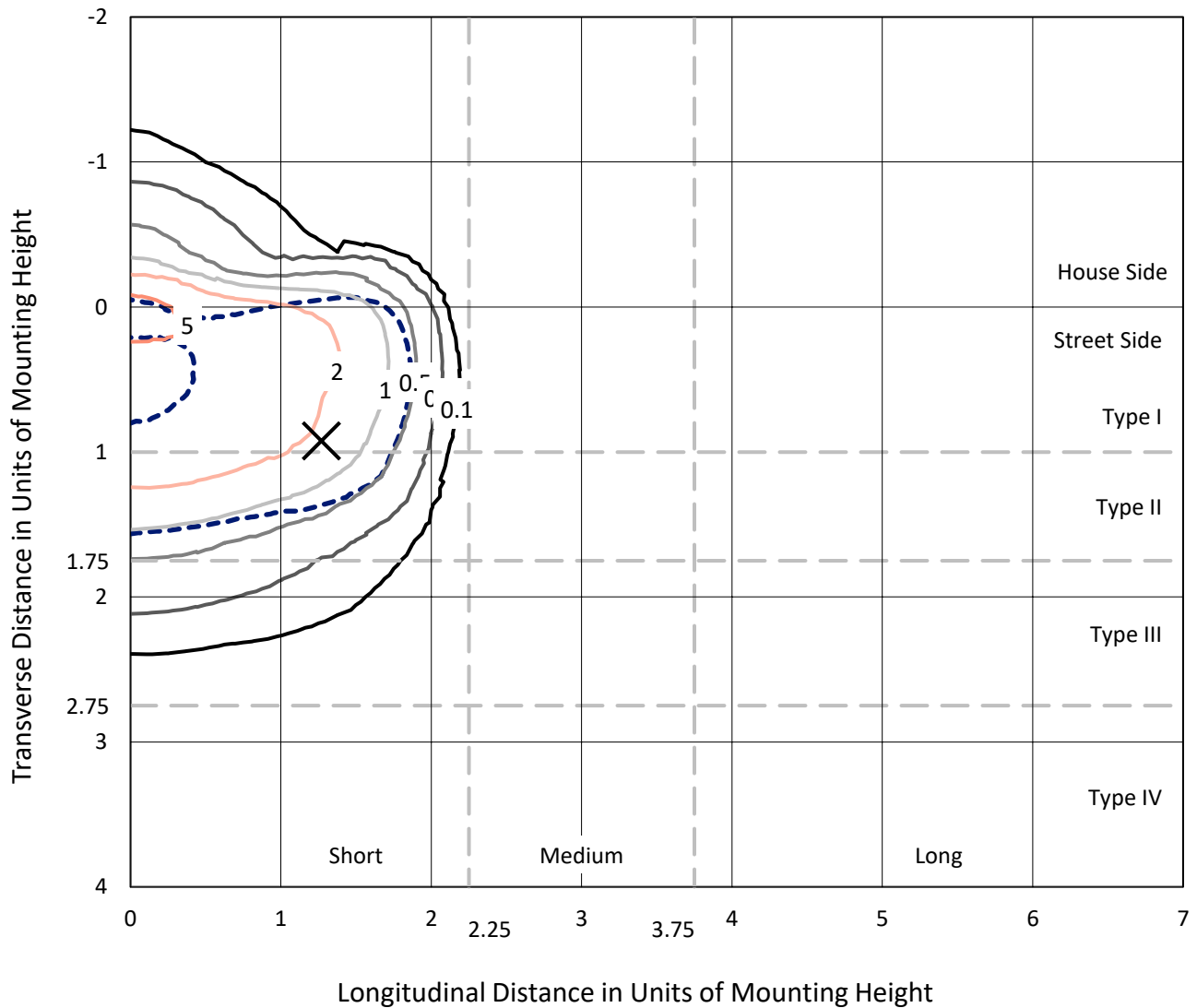
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

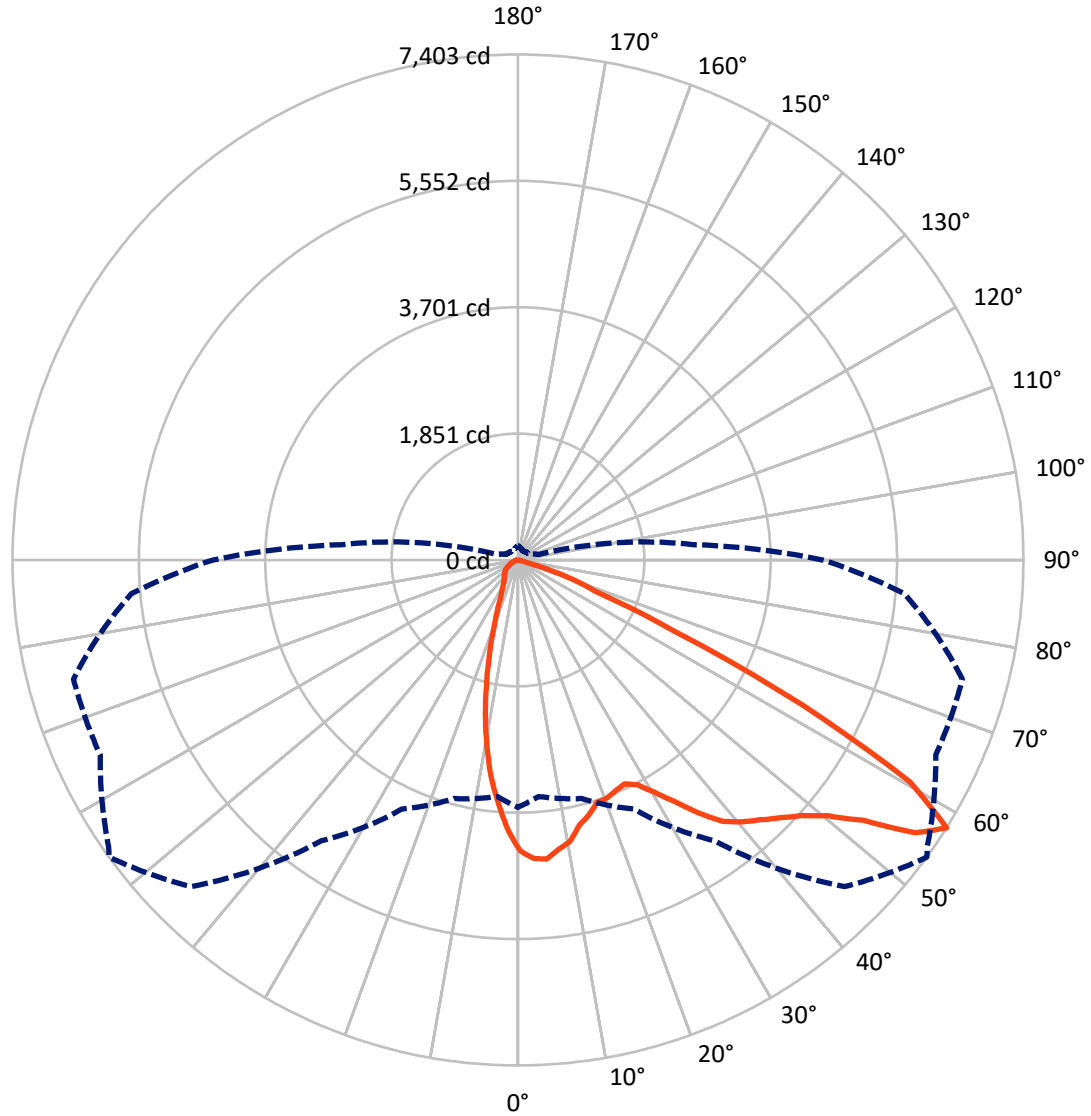
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1367.5	0.0	1367.5
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	8309.5	0.0	8309.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	9677.0	0.0	9677.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.7	3.7
10°-20°	761.6	7.9
20°-30°	1009.3	10.4
30°-40°	1466.8	15.2
40°-50°	2175.0	22.5
50°-60°	2719.7	28.1
60°-70°	1072.8	11.1
70°-80°	106.8	1.1
80°-90°	8.3	0.1
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°	9677.0	100.0
0°-180°	9677.0	100.0

**Coefficient of Utilization**



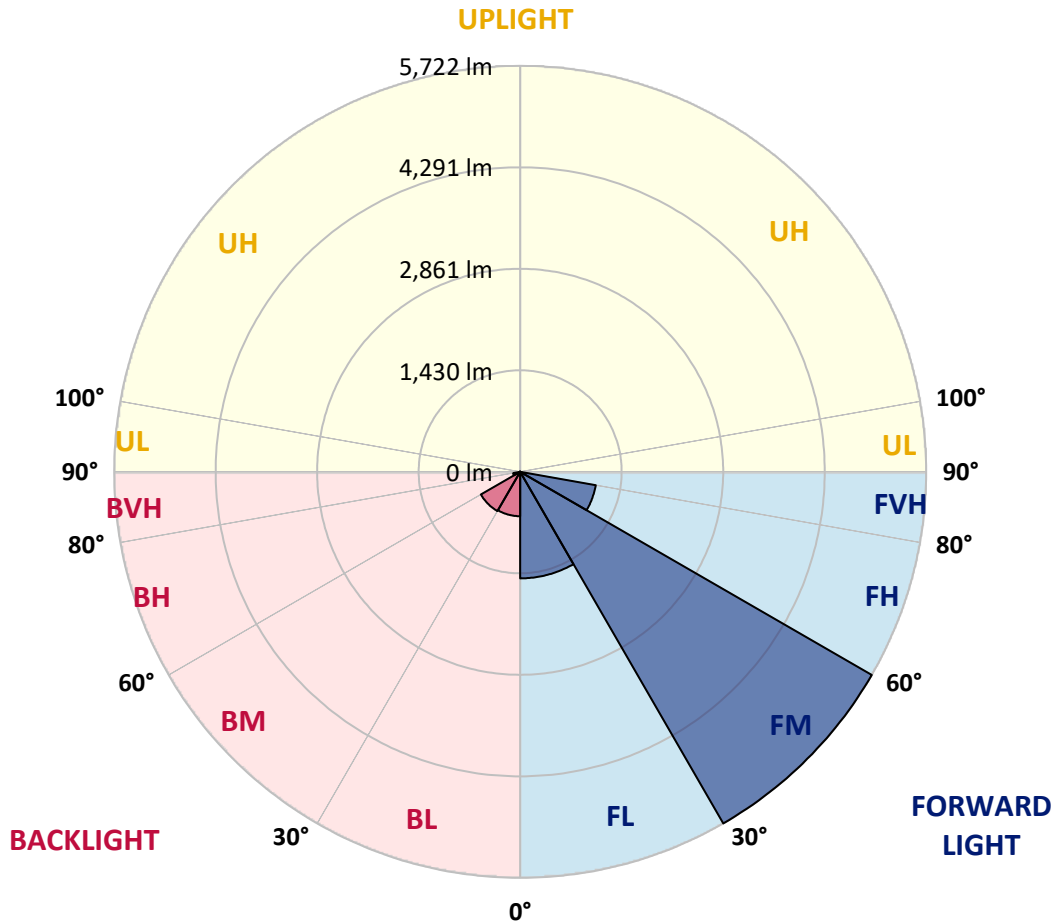
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1502.2	15.5			
FM (30°-60°)	5722.0	59.1			
FH (60°-80°)	1081.6	11.2			G1/1800
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	625.4	6.5	B2/1000		
BM (30°-60°)	639.5	6.6	B1/1000		
BH (60°-80°)	98.1	1.0	B0/110		G0/110
BVH (80°-90°)	4.5	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4262.8	4262.8	4262.8	4262.8	4262.8	4262.8	4262.8	4262.8	4262.8	4262.8	4262.8
2.5°	4511.2	4464.4	4468.0	4451.8	4430.2	4446.4	4376.2	4392.4	4390.6	4295.2	4232.3
5°	4397.8	4448.2	4396.0	4439.2	4397.8	4442.8	4399.6	4367.2	4315.0	4244.9	4127.9
7.5°	4205.3	4156.7	4171.1	4225.1	4234.1	4334.8	4280.8	4322.2	4300.6	4162.1	4001.9
10°	3818.4	3807.6	3879.6	3951.5	4039.7	4147.7	4189.1	4165.7	4149.5	4097.3	3883.2
12.5°	3521.5	3552.1	3550.3	3669.0	3818.4	3879.6	3987.5	3983.9	4073.9	3976.7	3771.6
15°	3239.0	3255.2	3330.7	3404.5	3570.1	3744.6	3877.8	3895.8	4003.7	3935.4	3685.2
17.5°	3066.2	3042.8	3102.2	3190.4	3359.5	3588.1	3735.6	3778.8	3926.4	3912.0	3586.3
20°	2895.3	2895.3	2943.9	3048.2	3203.0	3460.3	3723.0	3710.4	3926.4	3885.0	3480.1
22.5°	2837.7	2866.5	2879.1	2958.3	3141.8	3363.1	3669.0	3692.4	3956.9	3872.4	3433.3
25°	2916.9	2879.1	2882.7	2945.7	3118.4	3316.3	3629.4	3681.6	4012.7	3935.4	3395.5
27.5°	2929.5	2967.3	2978.1	3021.2	3136.4	3330.7	3728.4	3834.6	4151.3	4082.9	3406.3
30°	3039.2	3077.0	3075.2	3149.0	3228.2	3447.7	3949.7	3971.3	4437.4	4268.2	3472.9
32.5°	3172.4	3212.0	3224.6	3311.0	3373.9	3661.8	4219.7	4275.4	4712.7	4559.8	3647.4
35°	3337.9	3323.5	3381.1	3467.5	3602.5	3974.9	4549.0	4642.5	5009.6	4937.6	3827.4
37.5°	3544.9	3526.9	3582.7	3723.0	3906.6	4345.6	4853.1	4914.2	5225.5	5288.5	4160.3
40°	3690.6	3697.8	3867.0	4055.9	4250.3	4698.3	5045.6	5105.0	5376.7	5616.0	4412.2
42.5°	3933.6	3978.5	4181.9	4412.2	4615.5	4962.8	5202.2	5259.7	5446.9	5878.7	4752.3
45°	4286.2	4266.4	4491.4	4748.7	4973.6	5238.1	5387.5	5367.7	5488.3	6139.7	4966.4
47.5°	4739.7	4743.3	4892.6	5112.2	5346.1	5477.5	5594.4	5524.2	5574.6	6415.0	5252.5
50°	5049.2	5076.2	5196.8	5421.7	5538.6	5740.2	5889.5	5846.3	5830.2	6580.5	5432.5
52.5°	5128.4	5209.3	5274.1	5554.8	5828.4	6146.9	6337.6	6429.4	6141.5	6636.3	5661.0
55°	4531.0	4602.9	4831.5	5216.5	5938.1	6791.0	7053.8	7055.6	6548.1	6884.6	5821.2
57.5°	3622.3	3476.5	3616.9	4025.3	5020.4	6764.1	7402.9	7318.3	6751.5	6738.9	5682.6
60°	2504.8	2468.8	2477.8	2639.8	3474.7	5380.3	6596.7	6706.5	6217.0	5840.9	4498.6
62.5°	1984.8	1954.2	1914.6	1896.6	2157.5	3352.3	4653.3	4808.1	4347.4	3787.8	2666.8
65°	1554.7	1536.7	1542.1	1614.1	1612.3	1902.0	2544.4	2481.4	1986.6	1468.3	838.5
67.5°	1049.1	1076.1	1097.7	1315.4	1426.9	1324.4	1229.0	1193.0	646.0	271.7	185.3
70°	590.2	593.8	617.2	822.3	1083.3	1027.5	847.5	847.5	322.1	99.0	106.2
72.5°	322.1	311.3	289.7	354.5	482.2	489.4	377.9	329.3	95.4	64.8	59.4
75°	156.6	154.8	133.2	109.8	104.4	86.4	66.6	61.2	43.2	41.4	36.0
77.5°	32.4	30.6	16.2	16.2	18.0	19.8	25.2	25.2	30.6	30.6	25.2
80°	0.0	0.0	1.8	7.2	12.6	18.0	21.6	21.6	25.2	25.2	19.8
82.5°	0.0	0.0	1.8	5.4	10.8	16.2	19.8	21.6	25.2	27.0	21.6
85°	0.0	0.0	0.0	3.6	9.0	12.6	10.8	10.8	9.0	7.2	3.6
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°	4262.8	4262.8	4262.8	4262.8	4262.8	4262.8	4262.8	4262.8	4262.8	4262.8	4262.8
2.5°	4199.9	4196.3	4113.5	4066.7	3982.1	3908.4	3849.0	3805.8	3805.8	3778.8	3753.6
5°	4081.1	4050.5	3874.2	3760.8	3600.7	3481.9	3400.9	3337.9	3239.0	3266.0	3159.8
7.5°	3933.6	3856.2	3622.3	3449.5	3228.2	3059.0	2886.3	2733.3	2585.8	2519.2	2555.2
10°	3775.2	3640.2	3325.3	3051.8	2776.5	2467.0	2265.5	2020.8	1869.6	1860.6	1821.0
12.5°	3607.9	3454.9	3071.6	2693.7	2332.1	1959.6	1651.9	1423.3	1320.8	1207.4	1229.0
15°	3481.9	3255.2	2789.1	2333.9	1853.4	1477.3	1167.8	991.5	894.3	867.3	858.3
17.5°	3345.1	3102.2	2501.2	1950.6	1453.9	1063.5	840.3	755.8	718.0	718.0	712.6
20°	3203.0	2929.5	2215.1	1594.3	1090.5	793.5	673.0	646.0	644.2	642.4	642.4
22.5°	3109.4	2731.5	1956.0	1266.8	822.3	635.2	584.8	574.0	581.2	602.8	602.8
25°	3010.4	2540.8	1669.9	977.1	637.0	545.2	516.4	523.6	541.6	561.4	554.2
27.5°	2909.7	2416.6	1400.0	766.6	521.8	476.8	466.1	482.2	502.0	520.0	514.6
30°	2886.3	2283.5	1144.4	581.2	448.1	415.7	422.9	437.3	457.1	464.3	471.5
32.5°	2922.3	2179.1	937.5	476.8	390.5	381.5	381.5	388.7	401.3	417.5	412.1
35°	3024.8	2119.7	741.4	413.9	358.1	349.1	347.3	354.5	361.7	367.1	361.7
37.5°	3181.4	2072.9	606.4	367.1	336.5	322.1	318.5	316.7	323.9	325.7	329.3
40°	3381.1	2098.1	514.6	338.3	314.9	298.7	287.9	287.9	287.9	293.3	295.1
42.5°	3597.1	2132.3	444.5	322.1	295.1	275.3	264.5	260.9	264.5	271.7	269.9
45°	3823.8	2198.9	399.5	296.9	277.1	251.9	237.5	233.9	242.9	257.3	255.5
47.5°	4036.1	2294.3	365.3	280.7	259.1	235.7	217.7	214.1	230.3	250.1	251.9
50°	4248.5	2459.8	352.7	268.1	246.5	219.5	203.3	199.7	217.7	242.9	248.3
52.5°	4493.2	2638.0	343.7	251.9	232.1	206.9	188.9	185.3	205.1	237.5	239.3
55°	4653.3	2789.1	336.5	223.1	205.1	187.1	172.7	170.9	192.5	221.3	228.5
57.5°	4466.2	2578.6	311.3	194.3	174.5	165.5	153.0	153.0	170.9	197.9	203.3
60°	3386.5	1696.9	221.3	156.6	147.6	142.2	136.8	136.8	151.2	170.9	172.7
62.5°	1983.0	914.1	142.2	126.0	126.0	120.6	111.6	111.6	126.0	136.8	138.6
65°	588.4	293.3	115.2	108.0	106.2	97.2	88.2	86.4	97.2	102.6	100.8
67.5°	169.1	135.0	95.4	90.0	88.2	73.8	68.4	66.6	68.4	64.8	63.0
70°	100.8	91.8	73.8	75.6	66.6	54.0	48.6	46.8	43.2	37.8	34.2
72.5°	55.8	55.8	54.0	57.6	46.8	36.0	30.6	25.2	19.8	16.2	14.4
75°	34.2	36.0	37.8	39.6	30.6	23.4	19.8	12.6	7.2	3.6	3.6
77.5°	23.4	25.2	27.0	28.8	25.2	21.6	16.2	9.0	1.8	0.0	0.0
80°	18.0	19.8	23.4	25.2	27.0	28.8	21.6	9.0	1.8	0.0	0.0
82.5°	19.8	21.6	27.0	25.2	25.2	25.2	19.8	9.0	1.8	0.0	0.0
85°	3.6	5.4	9.0	9.0	12.6	16.2	12.6	3.6	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)