

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: P455215

Luminaire Tested: **GALN-SA6B-827-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20519 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

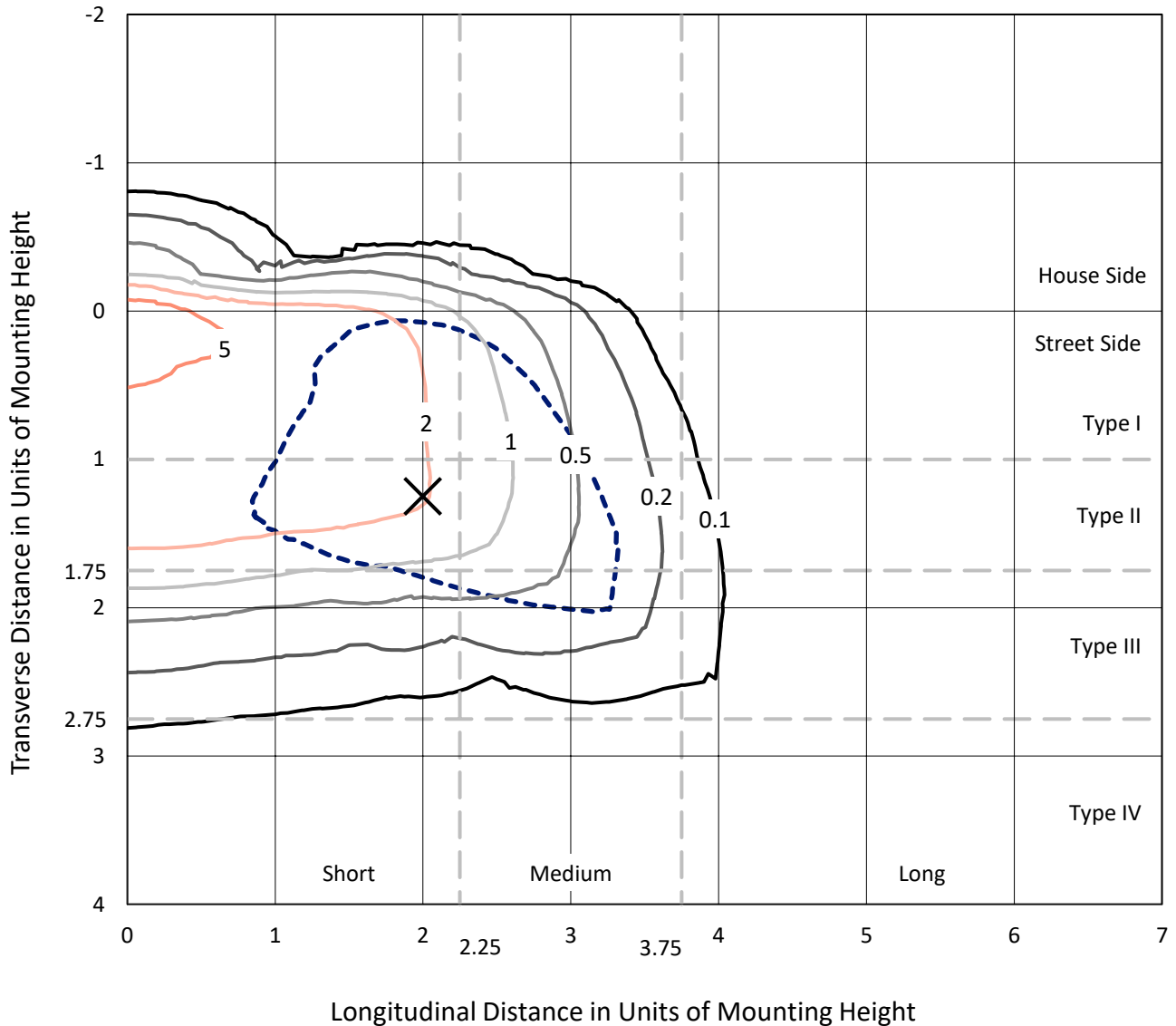
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

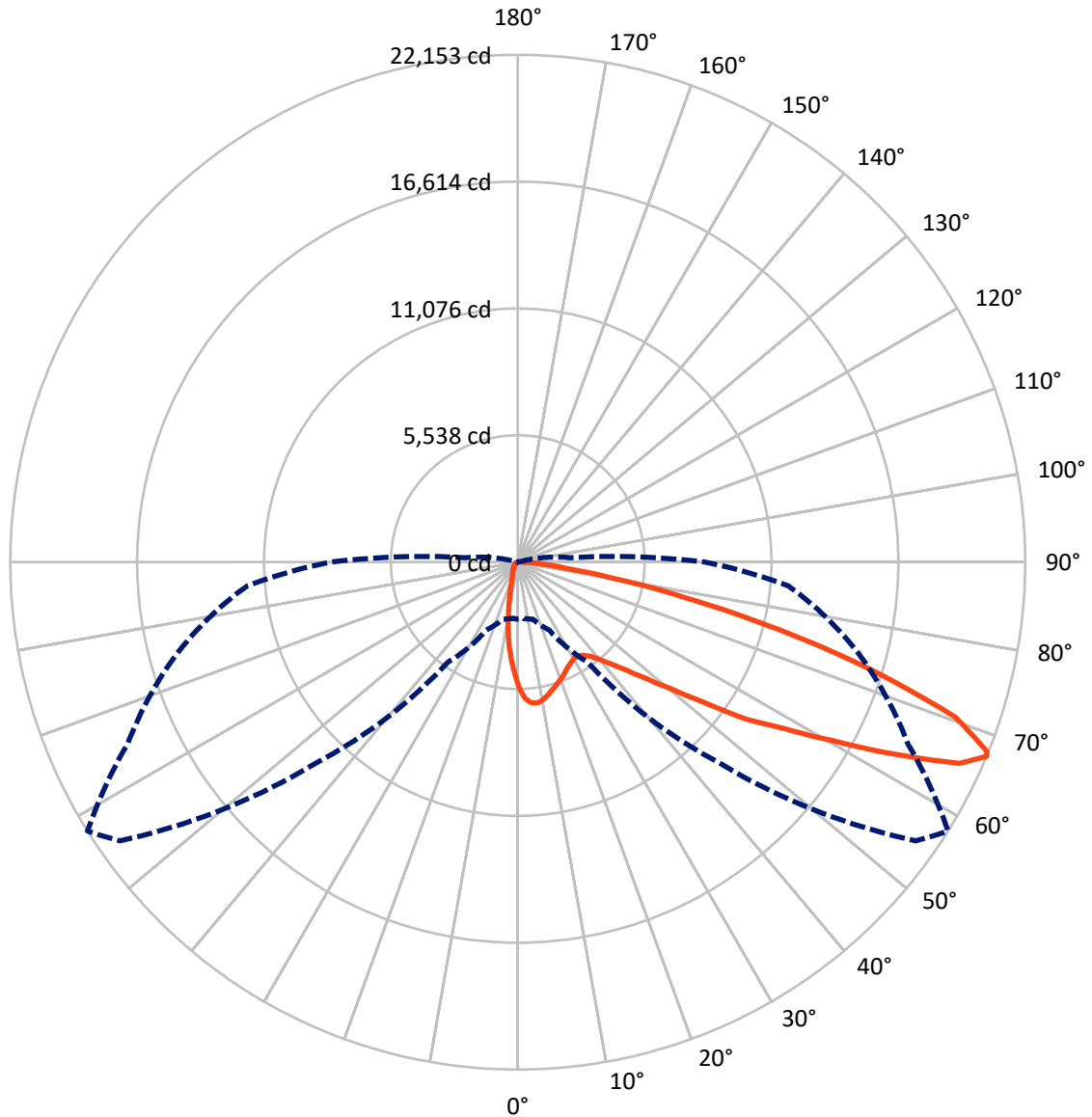
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1480.8	0.0	1480.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	19038.2	0.0	19038.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	20519.0	0.0	20519.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.4	2.2
10°-20°	953.3	4.6
20°-30°	1291.8	6.3
30°-40°	1791.6	8.7
40°-50°	2857.5	13.9
50°-60°	4939.4	24.1
60°-70°	5642.3	27.5
70°-80°	2352.3	11.5
80°-90°	249.4	1.2
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°	20519.0	100.0
0°-180°	20519.0	100.0

**Coefficient of Utilization**



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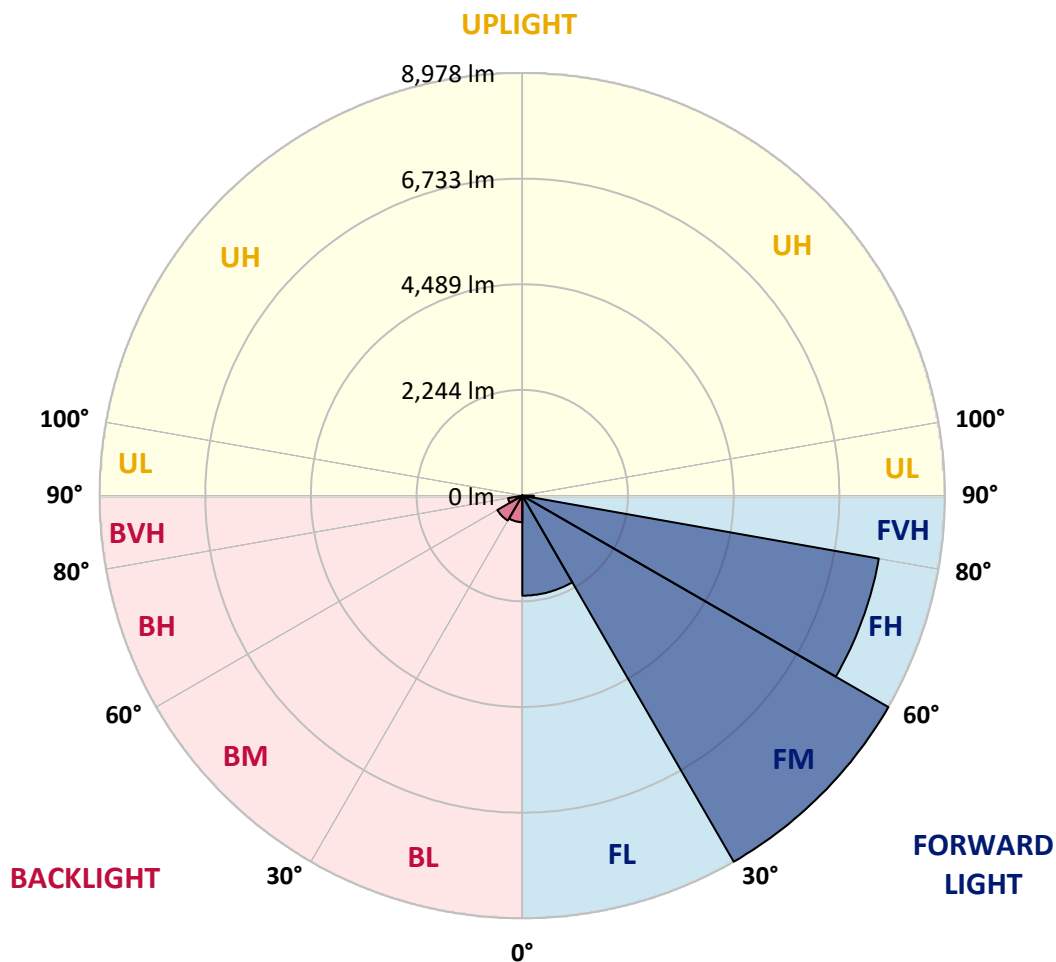
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2124.2	10.4			
FM (30°-60°)	8977.9	43.8			
FH (60°-80°)	7688.5	37.5			G4/12000
FVH (80°-90°)	247.6	1.2			G3/500
BL (0°-30°)	562.3	2.7	B2/1000		
BM (30°-60°)	610.6	3.0	B1/1000		
BH (60°-80°)	306.1	1.5	B1/500		G1/500
BVH (80°-90°)	1.8	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°	58°	65°	75°	85°
0°	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4
2.5°	6312.8	6322.4	6286.8	6258.0	6183.9	6104.4	5998.8	5942.6	5846.6	5680.7	5497.0
5°	6460.9	6473.3	6467.8	6460.9	6432.1	6355.3	6221.0	6171.6	6030.4	5760.3	5428.4
7.5°	6131.8	6177.1	6182.6	6236.0	6286.8	6293.6	6242.9	6205.9	6075.6	5758.9	5306.4
10°	5695.8	5726.0	5769.8	5831.6	5953.6	6055.1	6104.4	6098.9	6023.5	5716.4	5163.8
12.5°	5255.7	5272.1	5339.3	5444.9	5594.3	5767.1	5898.7	5924.8	5926.2	5665.6	5044.5
15°	4877.2	4870.4	4922.5	5044.5	5254.3	5470.9	5706.8	5747.9	5813.7	5616.3	4933.4
17.5°	4553.6	4589.3	4597.5	4731.9	4925.2	5206.3	5506.6	5579.3	5710.9	5573.8	4841.6
20°	4353.4	4372.6	4390.5	4465.9	4640.0	4936.2	5318.7	5418.8	5614.9	5535.4	4738.7
22.5°	4294.5	4306.8	4291.7	4315.0	4438.5	4701.7	5114.4	5247.4	5523.0	5499.7	4655.1
25°	4339.7	4352.1	4316.4	4289.0	4331.5	4511.1	4917.0	5078.8	5449.0	5492.9	4592.0
27.5°	4449.4	4472.7	4423.4	4374.0	4349.3	4408.3	4762.0	4949.9	5398.3	5525.8	4563.2
30°	4620.8	4634.5	4597.5	4537.2	4481.0	4422.0	4681.1	4860.8	5384.6	5602.6	4560.5
32.5°	4807.3	4836.1	4815.5	4775.8	4703.1	4563.2	4704.5	4863.5	5417.5	5713.6	4594.8
35°	5037.6	5070.6	5089.8	5081.5	4988.3	4814.1	4852.5	4986.9	5505.2	5917.9	4688.0
37.5°	5263.9	5292.7	5401.0	5438.0	5355.8	5191.2	5140.5	5229.6	5698.5	6185.3	4856.7
40°	5523.0	5561.4	5713.6	5854.9	5815.1	5642.3	5549.1	5623.1	5994.7	6588.4	5176.1
42.5°	5771.2	5839.8	6071.5	6321.1	6358.1	6164.7	6103.0	6127.7	6433.5	7168.4	5621.8
45°	6123.6	6188.1	6487.0	6825.6	6999.8	6849.0	6785.9	6781.8	7035.4	7984.3	6344.4
47.5°	6632.3	6689.9	7042.3	7376.8	7686.7	7707.3	7588.0	7629.1	7792.3	8938.6	7230.1
50°	7256.2	7391.9	7623.7	7971.9	8386.0	8720.6	8757.6	8702.8	8842.6	10043.8	8294.2
52.5°	8162.5	8214.6	8427.2	8713.7	9199.1	9766.8	10206.9	10131.5	10087.6	11096.8	9369.1
55°	8838.5	8908.4	9238.9	9632.4	10344.0	11092.7	12047.0	12073.1	11519.1	12108.7	10420.8
57.5°	8634.2	8741.2	9241.6	10032.8	11597.3	12965.7	13676.0	13693.8	12843.7	13091.9	11608.3
60°	7585.3	7636.0	8353.1	9408.9	11704.2	14995.0	15986.4	15842.4	14191.5	14191.5	12657.2
62.5°	5379.1	5458.6	6040.0	7593.5	10570.3	15699.8	18753.4	18455.8	16048.1	15243.2	13282.4
65°	3437.5	3360.7	3746.0	4793.6	7874.6	14659.1	21162.5	21180.3	17794.9	15664.2	12941.0
67°	2490.0	2459.9	2570.9	3277.1	5339.3	12322.6	21213.2	22152.5	18798.6	15398.1	11849.6
67.5°	2277.5	2300.8	2381.7	2956.2	4851.2	11213.4	20982.9	22094.9	19024.9	15237.7	11454.7
70°	1726.3	1686.5	1774.3	2091.0	2908.2	7073.8	18050.0	20264.4	18743.8	13645.8	9152.5
72.5°	1269.7	1265.6	1387.6	1709.8	2239.1	3768.0	13549.8	16248.3	15313.1	10390.7	5763.0
75°	857.0	895.4	1090.1	1428.8	2029.3	2443.4	9237.5	11787.9	10630.6	5900.1	2355.7
77.5°	488.1	490.9	702.0	1147.7	1822.3	1966.2	5473.7	7509.9	5627.2	1962.1	699.3
80°	211.2	231.7	348.3	833.7	1511.0	1741.4	3138.6	4127.2	2276.1	415.5	226.2
82.5°	78.2	91.9	153.6	512.8	1102.4	1434.2	1896.3	1970.4	772.0	146.7	141.2
85°	0.0	2.7	56.2	240.0	574.5	640.3	1267.0	1168.2	341.4	69.9	91.9
87.5°	0.0	0.0	0.0	24.7	75.4	238.6	393.5	438.8	82.3	24.7	21.9
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°	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4	5439.4
2.5°	5398.3	5309.1	5085.6	4862.1	4696.2	4557.7	4349.3	4235.5	4175.2	4086.1	4091.5
5°	5262.5	5081.5	4688.0	4280.8	3951.7	3630.8	3246.9	3092.0	2961.7	2887.7	2838.3
7.5°	5061.0	4793.6	4210.8	3667.9	3161.9	2601.1	2180.1	1899.1	1709.8	1639.9	1572.7
10°	4840.2	4485.1	3726.8	2974.0	2272.0	1693.4	1336.9	1079.1	987.2	902.2	910.5
12.5°	4635.9	4204.0	3282.6	2347.4	1591.9	1076.4	839.2	733.6	703.4	693.8	693.8
15°	4468.6	3935.2	2805.4	1764.7	1091.4	773.3	671.9	643.1	632.1	629.4	629.4
17.5°	4290.4	3680.2	2374.9	1304.0	793.9	647.2	612.9	593.7	589.6	586.9	586.9
20°	4131.3	3423.8	1966.2	970.8	641.7	582.7	560.8	548.5	544.4	541.6	543.0
22.5°	3980.5	3196.2	1582.3	733.6	564.9	530.6	508.7	496.4	488.1	481.3	482.6
25°	3846.1	2976.8	1272.4	600.6	508.7	478.5	456.6	438.8	420.9	412.7	411.3
27.5°	3751.5	2784.8	991.3	514.2	458.0	425.1	397.6	375.7	352.4	340.0	337.3
30°	3673.3	2590.1	784.3	453.9	407.2	375.7	341.4	309.9	285.2	272.9	267.4
32.5°	3622.6	2405.0	618.4	404.5	364.7	326.3	287.9	256.4	229.0	216.6	213.9
35°	3614.4	2250.1	506.0	363.4	326.3	285.2	245.4	211.2	187.8	175.5	172.8
37.5°	3673.3	2130.8	423.7	330.4	294.8	249.6	205.7	174.1	153.6	144.0	142.6
40°	3831.0	2055.4	367.5	303.0	266.0	216.6	175.5	148.1	127.5	117.9	117.9
42.5°	4131.3	2058.1	330.4	277.0	237.2	185.1	149.5	123.4	105.6	97.4	94.6
45°	4600.2	2151.4	298.9	250.9	209.8	160.4	127.5	101.5	83.6	76.8	76.8
47.5°	5228.2	2336.5	271.5	224.9	185.1	137.1	108.3	82.3	67.2	60.3	60.3
50°	6049.6	2634.0	248.2	202.9	164.5	117.9	87.8	67.2	52.1	46.6	45.2
52.5°	6907.9	3001.5	220.8	183.7	141.2	100.1	71.3	52.1	39.8	35.7	34.3
55°	7855.4	3360.7	194.7	164.5	115.2	83.6	56.2	41.1	28.8	24.7	24.7
57.5°	8811.1	3713.1	163.2	137.1	90.5	61.7	43.9	30.2	19.2	15.1	15.1
60°	9620.1	3826.9	138.5	111.1	68.6	43.9	31.5	19.2	11.0	6.9	6.9
62.5°	9731.1	3443.0	116.5	85.0	49.4	30.2	16.5	11.0	4.1	2.7	2.7
65°	9127.8	2797.2	97.4	64.4	32.9	15.1	6.9	4.1	1.4	0.0	0.0
67°	8179.0	2267.9	79.5	48.0	23.3	9.6	4.1	1.4	0.0	0.0	0.0
67.5°	7936.3	2162.3	76.8	45.2	20.6	8.2	2.7	1.4	0.0	0.0	0.0
70°	6227.8	1619.3	54.8	27.4	12.3	5.5	0.0	0.0	0.0	0.0	0.0
72.5°	3870.8	915.9	39.8	16.5	8.2	2.7	0.0	0.0	0.0	0.0	0.0
75°	1463.0	320.9	27.4	11.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	455.2	122.0	16.5	8.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	153.6	46.6	11.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	94.6	19.2	6.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.0	8.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	2.7	1.4	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)