

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: STREETWORKS

Report Number: P649365

Luminaire Tested: **GLAN-SA4D-835-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649365  
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: STREETWORKS  
Catalog Number: GLAN-SA4D-835-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1200mA 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: 19821.6 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

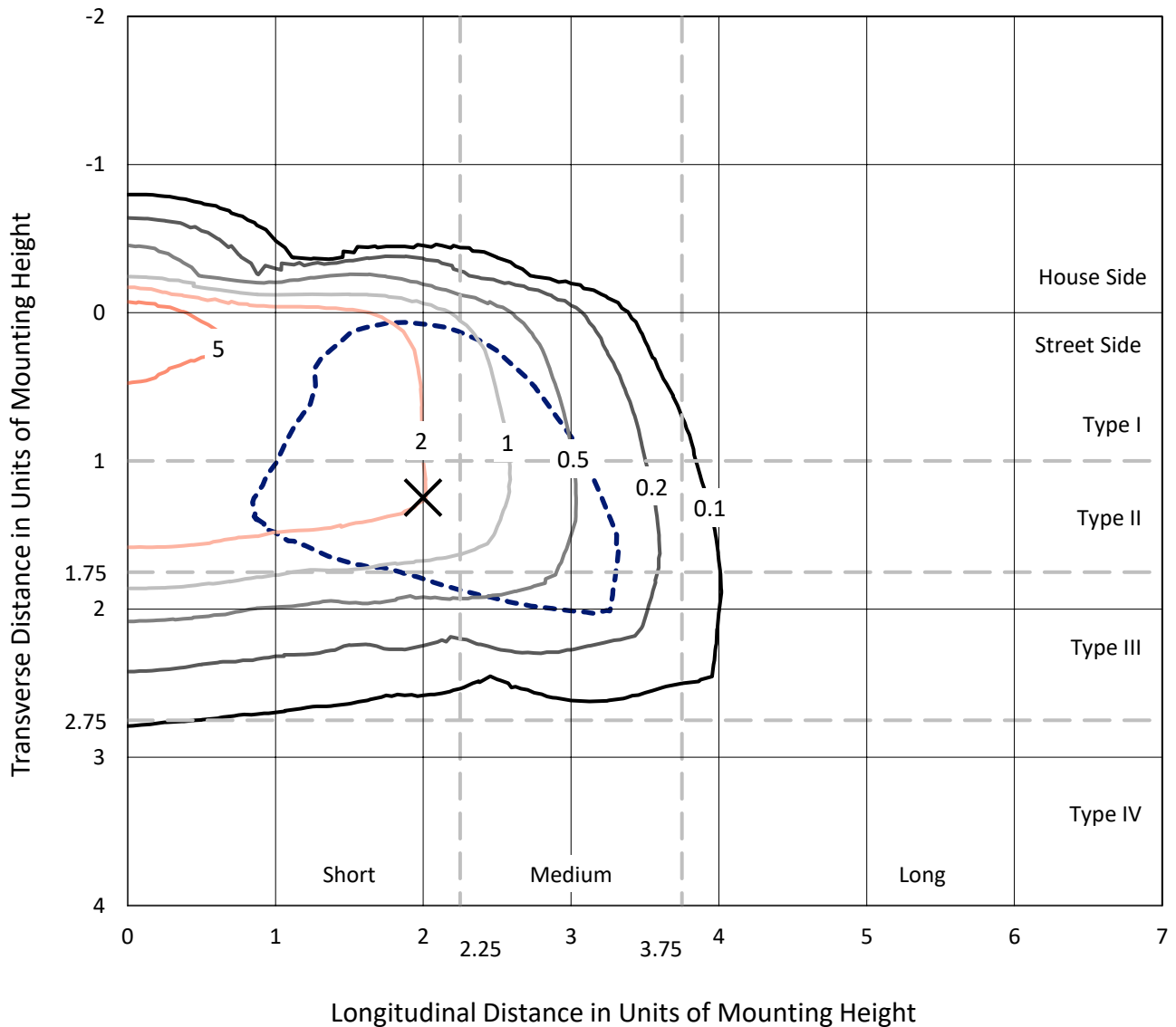
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

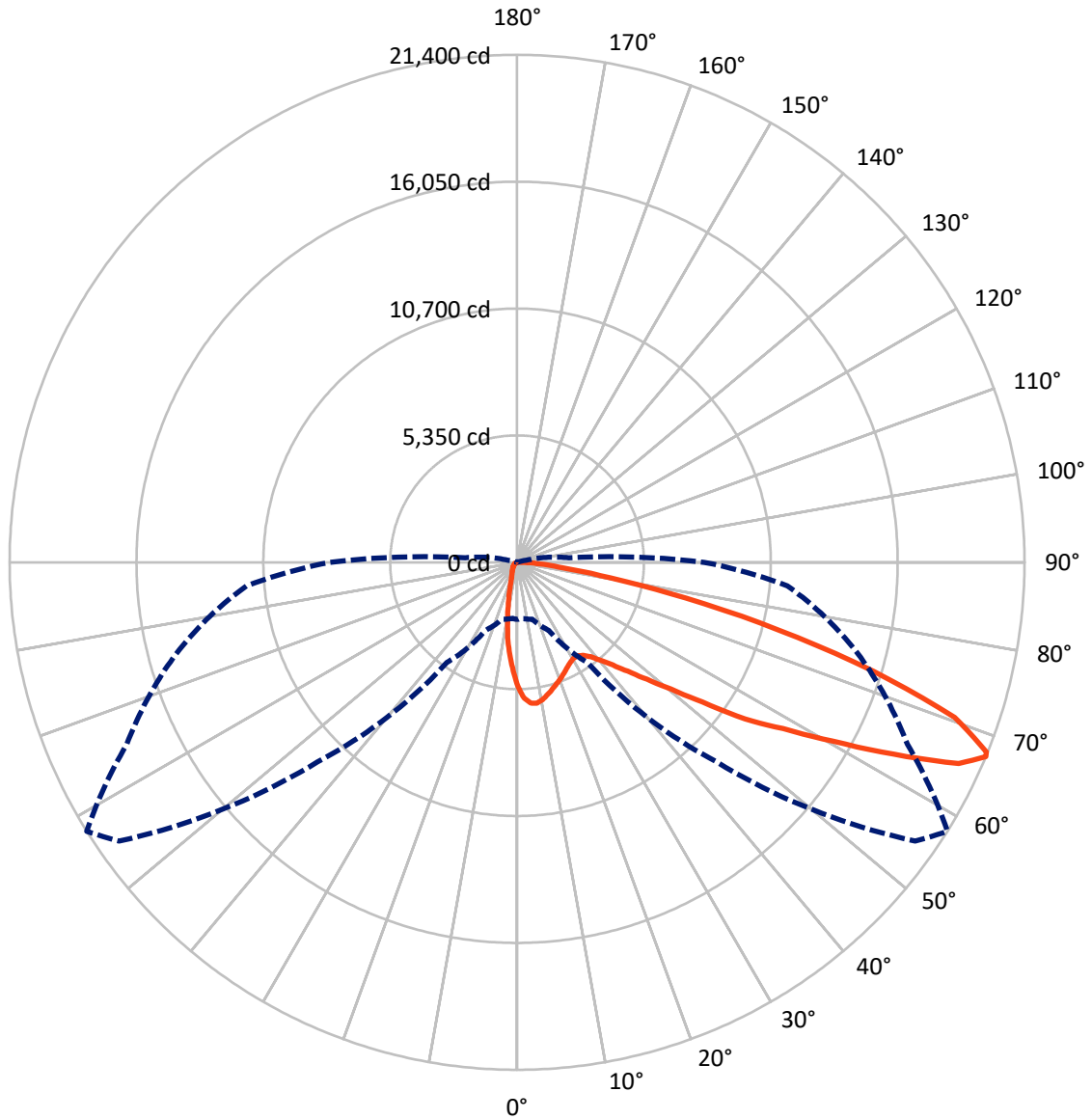
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	1430.4	0.0	1430.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	18391.2	0.0	18391.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	19821.6	0.0	19821.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.4	2.2
10°-20°	920.9	4.6
20°-30°	1247.9	6.3
30°-40°	1730.8	8.7
40°-50°	2760.4	13.9
50°-60°	4771.5	24.1
60°-70°	5450.5	27.5
70°-80°	2272.4	11.5
80°-90°	240.9	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°	19821.6	100.0
0°-180°	19821.6	100.0

**Coefficient of Utilization**



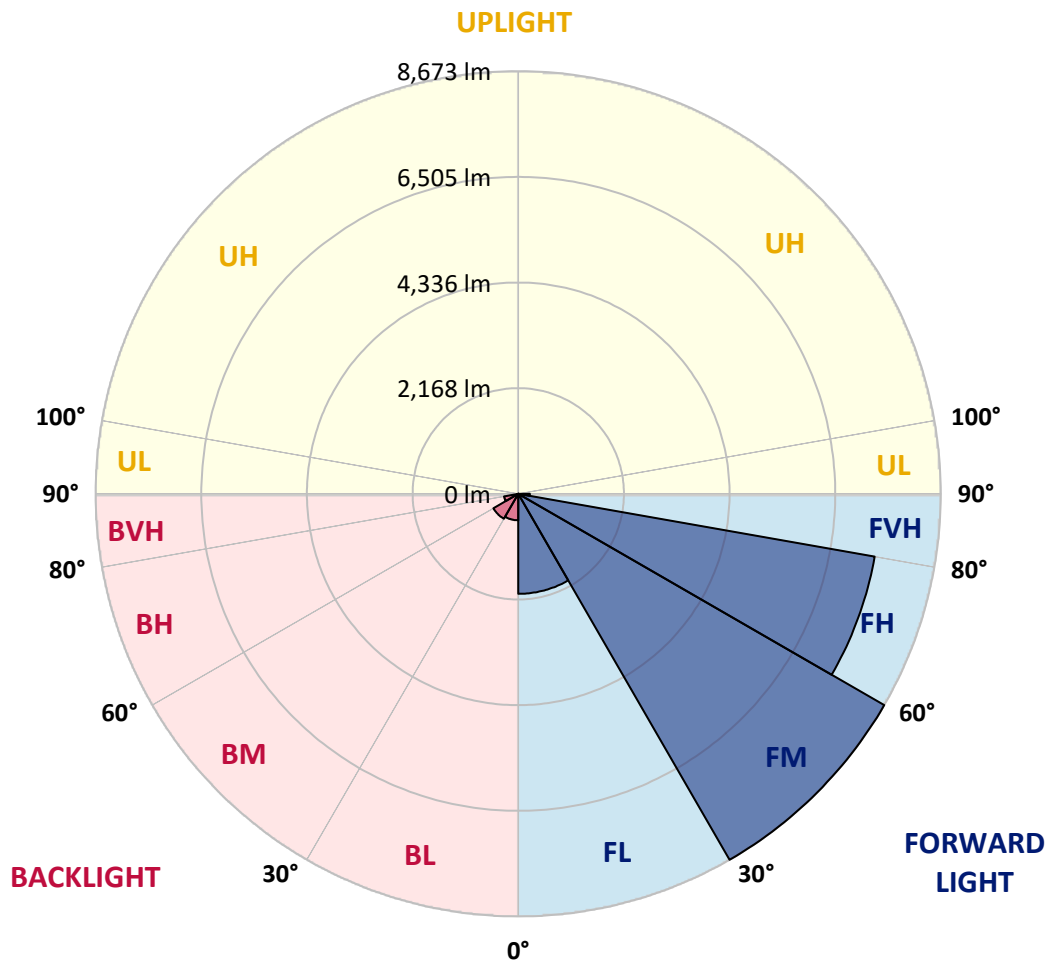
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2052.0	10.4			
FM (30°-60°)	8672.8	43.8			
FH (60°-80°)	7427.2	37.5			G3/7500
FVH (80°-90°)	239.2	1.2			G3/500
BL (0°-30°)	543.2	2.7	B2/1000		
BM (30°-60°)	589.8	3.0	B1/1000		
BH (60°-80°)	295.7	1.5	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6
2.5°	6098.3	6107.6	6073.1	6045.3	5973.7	5896.9	5795.0	5740.6	5647.9	5487.7	5310.1
5°	6241.4	6253.3	6247.9	6241.4	6213.5	6139.3	6009.5	5961.8	5825.4	5564.5	5243.9
7.5°	5923.5	5967.2	5972.4	6024.1	6073.1	6079.8	6030.7	5995.0	5869.1	5563.1	5126.1
10°	5502.2	5531.3	5573.8	5633.4	5751.2	5849.2	5896.9	5891.7	5818.8	5522.1	4988.3
12.5°	5077.1	5092.9	5157.9	5259.8	5404.2	5571.1	5698.3	5723.4	5724.7	5473.1	4873.1
15°	4711.5	4704.8	4755.2	4873.1	5075.7	5285.0	5512.8	5552.6	5616.1	5425.4	4765.8
17.5°	4398.9	4433.3	4441.3	4571.1	4757.8	5029.4	5319.5	5389.6	5516.8	5384.4	4677.0
20°	4205.5	4224.1	4241.3	4314.1	4482.3	4768.4	5138.0	5234.7	5424.1	5347.3	4577.7
22.5°	4148.5	4160.5	4145.9	4168.4	4287.6	4541.9	4940.7	5069.1	5335.4	5312.8	4496.9
25°	4192.3	4204.2	4169.7	4143.2	4184.3	4357.8	4749.9	4906.2	5263.8	5306.2	4435.9
27.5°	4298.2	4320.8	4273.1	4225.4	4201.5	4258.5	4600.2	4781.7	5214.8	5337.9	4408.1
30°	4463.8	4477.0	4441.3	4383.0	4328.7	4271.7	4522.1	4695.6	5201.5	5412.2	4405.5
32.5°	4643.9	4671.7	4651.9	4613.4	4543.3	4408.1	4544.5	4698.2	5233.3	5519.4	4438.6
35°	4866.4	4898.2	4916.8	4908.9	4818.7	4650.6	4687.6	4817.4	5318.1	5716.8	4528.7
37.5°	5085.0	5112.8	5217.4	5253.2	5173.8	5014.8	4965.8	5051.9	5504.9	5975.1	4691.6
40°	5335.4	5372.4	5519.4	5655.8	5617.5	5450.5	5360.5	5432.1	5791.0	6364.5	5000.2
42.5°	5575.1	5641.3	5865.1	6106.2	6142.0	5955.3	5895.6	5919.5	6214.8	6924.8	5430.7
45°	5915.5	5977.7	6266.5	6593.6	6761.9	6616.2	6555.3	6551.3	6796.4	7712.9	6128.8
47.5°	6406.9	6462.6	6802.9	7126.2	7425.5	7445.4	7330.1	7369.8	7527.4	8634.8	6984.4
50°	7009.6	7140.7	7364.6	7701.0	8101.0	8424.2	8460.0	8407.0	8542.1	9702.4	8012.3
52.5°	7885.1	7935.5	8140.8	8417.6	8886.5	9434.8	9860.0	9787.2	9744.8	10719.7	9050.7
55°	8538.1	8605.6	8924.9	9305.0	9992.5	10715.7	11637.6	11662.8	11127.6	11697.2	10066.6
57.5°	8340.8	8444.1	8927.5	9691.8	11203.2	12525.0	13211.2	13228.4	12407.2	12646.9	11213.7
60°	7327.5	7376.5	8069.2	9089.1	11306.4	14485.4	15443.0	15304.0	13709.2	13709.2	12227.0
62.5°	5196.2	5273.1	5834.7	7335.5	10211.0	15166.2	18116.0	17828.6	15502.7	14725.2	12831.0
65°	3320.7	3246.5	3618.7	4630.7	7606.9	14160.9	20443.3	20460.5	17190.1	15131.8	12501.2
67°	2405.4	2376.2	2483.5	3165.7	5157.9	11903.9	20492.3	21399.6	18159.7	14874.8	11446.8
67.5°	2200.1	2222.6	2300.8	2855.8	4686.3	10832.3	20269.8	21344.0	18378.3	14719.9	11065.4
70°	1667.6	1629.2	1714.0	2020.0	2809.4	6833.4	17436.5	19575.7	18106.8	13182.0	8841.5
72.5°	1226.6	1222.6	1340.4	1651.7	2163.0	3639.9	13089.3	15696.0	14792.7	10037.5	5567.1
75°	827.9	864.9	1053.1	1380.2	1960.3	2360.4	8923.5	11387.2	10269.4	5699.6	2275.6
77.5°	471.5	474.2	678.2	1108.6	1760.3	1899.4	5287.7	7254.7	5436.0	1895.5	675.5
80°	204.0	223.9	336.5	805.3	1459.7	1682.2	3031.9	3987.0	2198.7	401.4	218.5
82.5°	75.5	88.7	148.4	495.4	1065.0	1385.5	1831.9	1903.4	745.7	141.7	136.4
85°	0.0	2.7	54.3	231.8	555.0	618.6	1223.9	1128.5	329.8	67.6	88.7
87.5°	0.0	0.0	0.0	23.8	72.8	230.4	380.1	423.8	79.5	23.8	21.2
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°	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6
2.5°	5214.8	5128.7	4912.8	4696.9	4536.6	4402.8	4201.5	4091.6	4033.3	3947.2	3952.5
5°	5083.7	4908.9	4528.7	4135.3	3817.4	3507.4	3136.5	2986.9	2861.1	2789.5	2741.8
7.5°	4889.0	4630.7	4067.8	3543.2	3054.4	2512.7	2106.0	1834.5	1651.7	1584.2	1519.3
10°	4675.7	4332.7	3600.2	2873.0	2194.8	1635.8	1291.5	1042.4	953.7	871.6	879.5
12.5°	4478.4	4061.1	3171.0	2267.6	1537.8	1039.7	810.6	708.6	679.5	670.2	670.2
15°	4316.8	3801.5	2710.0	1704.7	1054.4	747.1	649.0	621.2	610.7	608.0	608.0
17.5°	4144.6	3555.1	2294.1	1259.7	766.9	625.2	592.1	573.5	569.6	566.9	566.9
20°	3990.9	3307.4	1899.4	937.8	619.9	563.0	541.8	529.9	525.9	523.2	524.5
22.5°	3845.2	3087.5	1528.6	708.6	545.8	512.6	491.4	479.5	471.5	464.9	466.3
25°	3715.4	2875.6	1229.2	580.1	491.4	462.3	441.1	423.8	406.6	398.7	397.4
27.5°	3624.0	2690.2	957.7	496.7	442.4	410.6	384.1	362.9	340.4	328.5	325.8
30°	3548.5	2502.1	757.6	438.4	393.4	362.9	329.8	299.3	275.5	263.6	258.3
32.5°	3499.5	2323.3	597.4	390.7	352.4	315.2	278.1	247.7	221.2	209.3	206.6
35°	3491.6	2173.6	488.7	351.0	315.2	275.5	237.1	204.0	181.5	169.5	166.9
37.5°	3548.5	2058.4	409.3	319.2	284.8	241.1	198.6	168.2	148.4	139.1	137.7
40°	3700.8	1985.5	355.0	292.8	257.0	209.3	169.5	143.1	123.2	113.9	113.9
42.5°	3990.9	1988.2	319.2	267.6	229.2	178.8	144.4	119.2	102.0	94.0	91.4
45°	4443.9	2078.2	288.8	242.4	202.6	155.0	123.2	98.0	80.8	74.2	74.2
47.5°	5050.6	2257.1	262.2	217.2	178.8	132.5	104.6	79.5	64.9	58.3	58.3
50°	5844.0	2544.5	239.8	196.1	158.9	113.9	84.8	64.9	50.3	45.0	43.7
52.5°	6673.1	2899.4	213.3	177.5	136.4	96.7	68.9	50.3	38.4	34.5	33.1
55°	7588.4	3246.5	188.1	158.9	111.3	80.8	54.3	39.7	27.8	23.8	23.8
57.5°	8511.6	3586.9	157.6	132.5	87.4	59.6	42.4	29.1	18.6	14.6	14.6
60°	9293.1	3696.9	133.8	107.3	66.2	42.4	30.5	18.6	10.6	6.7	6.7
62.5°	9400.4	3325.9	112.6	82.1	47.7	29.1	15.9	10.6	4.0	2.7	2.7
65°	8817.6	2702.1	94.0	62.2	31.8	14.6	6.7	4.0	1.3	0.0	0.0
67°	7901.0	2190.8	76.8	46.4	22.6	9.2	4.0	1.3	0.0	0.0	0.0
67.5°	7666.6	2088.8	74.2	43.7	19.9	7.9	2.7	1.3	0.0	0.0	0.0
70°	6016.2	1564.3	53.0	26.5	11.9	5.3	0.0	0.0	0.0	0.0	0.0
72.5°	3739.2	884.8	38.4	15.9	7.9	2.7	0.0	0.0	0.0	0.0	0.0
75°	1413.3	309.9	26.5	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	439.7	117.9	15.9	7.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	148.4	45.0	10.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	91.4	18.6	6.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	56.9	7.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	2.7	1.3	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)