

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: P323311

Luminaire Tested: **GLEON-SA7A-827-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7A-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20071 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

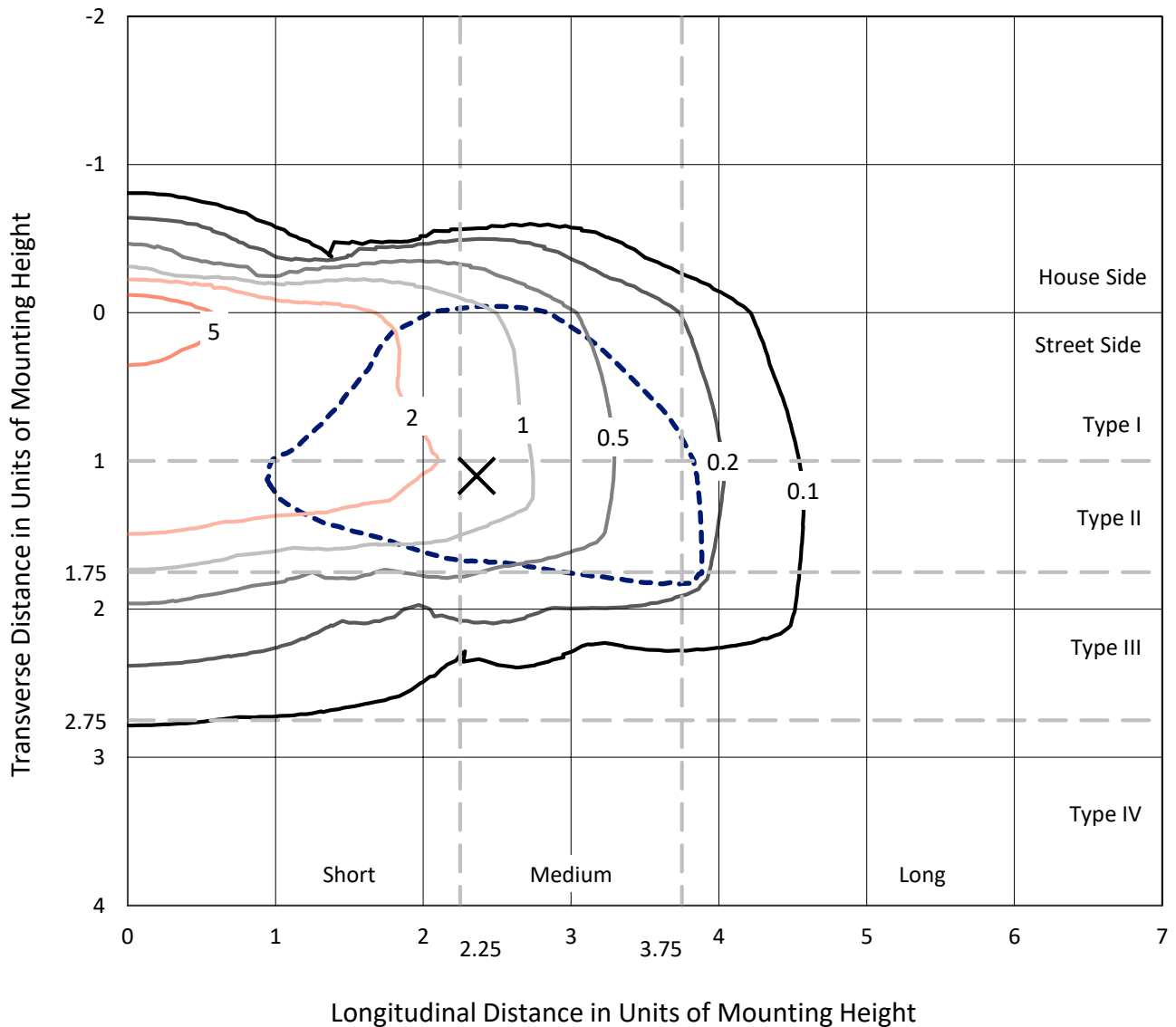
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

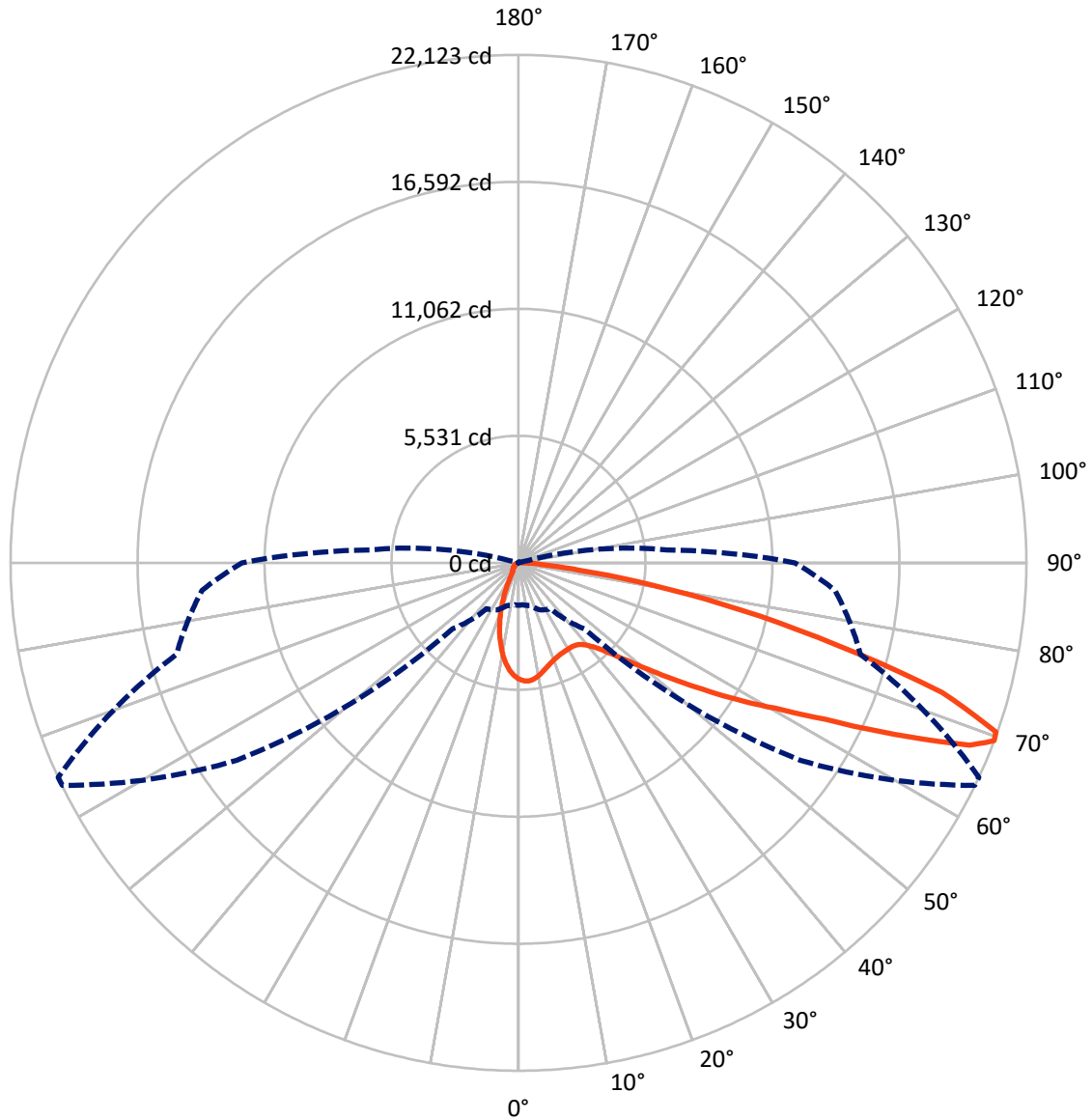
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2365.9	0.0	2365.9
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	17705.1	0.0	17705.1
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	20071.0	0.0	20071.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.1	2.1
10°-20°	928.4	4.6
20°-30°	1285.9	6.4
30°-40°	1792.9	8.9
40°-50°	2786.8	13.9
50°-60°	4474.0	22.3
60°-70°	5060.8	25.2
70°-80°	2972.2	14.8
80°-90°	345.7	1.7
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°	20071.0	100.0
0°-180°	20071.0	100.0

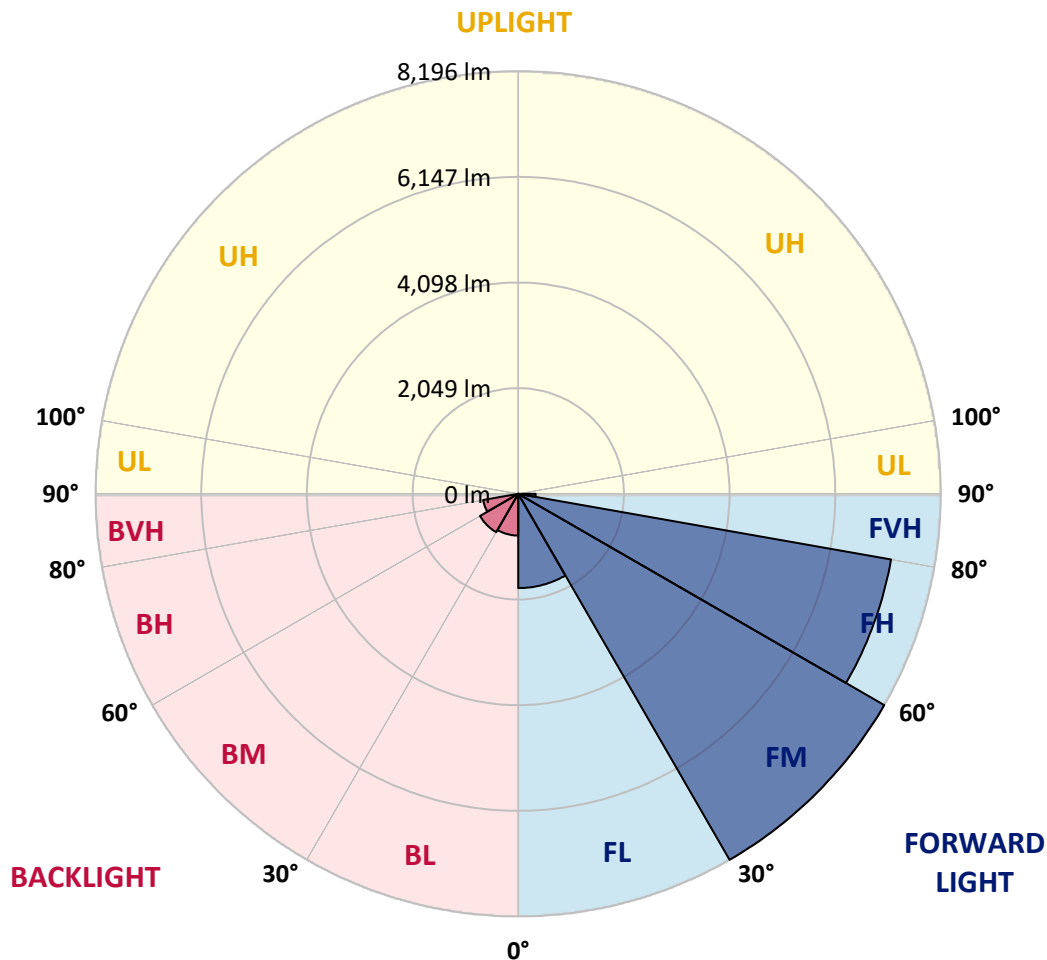


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1828.9	9.1			
FM (30°-60°)	8196.4	40.8			
FH (60°-80°)	7341.8	36.6			G3/7500
FVH (80°-90°)	338.0	1.7			G3/500
BL (0°-30°)	809.5	4.0	B2/1000		
BM (30°-60°)	857.3	4.3	B1/1000		
BH (60°-80°)	691.3	3.4	B2/1000		G2/1000
BVH (80°-90°)	7.8	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-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5072.0	5072.0	5072.0	5072.0	5072.0	5072.0	5072.0	5072.0	5072.0	5072.0	5072.0
2.5°	5117.0	5104.2	5114.4	5136.5	5147.6	5147.6	5156.1	5145.9	5149.3	5124.6	5089.0
5°	4796.8	4777.3	4805.3	4867.3	4943.7	5009.1	5105.9	5156.9	5162.0	5162.9	5121.2
7.5°	4452.0	4434.2	4475.8	4548.8	4647.3	4768.8	4937.8	5085.6	5094.1	5173.9	5143.3
10°	4171.7	4159.0	4207.4	4285.5	4401.0	4536.9	4744.1	4949.7	4974.3	5151.0	5139.9
12.5°	3949.2	3939.0	3984.9	4074.9	4193.0	4343.3	4559.9	4798.5	4831.6	5099.2	5122.9
15°	3787.0	3785.3	3823.5	3910.1	4040.9	4181.1	4402.7	4658.4	4696.6	5043.1	5120.4
17.5°	3702.1	3704.6	3732.6	3806.5	3918.6	4057.9	4270.2	4540.3	4581.9	4993.0	5133.1
20°	3693.6	3696.1	3711.4	3753.0	3843.9	3967.0	4162.4	4441.0	4484.3	4955.6	5153.5
22.5°	3768.3	3766.6	3770.9	3766.6	3817.6	3911.0	4091.0	4364.5	4414.6	4931.0	5169.6
25°	3911.8	3909.3	3907.6	3876.2	3842.2	3892.3	4061.3	4321.2	4368.8	4913.2	5179.0
27.5°	4111.4	4109.7	4107.2	4055.4	3953.5	3922.0	4064.7	4305.1	4345.0	4898.7	5177.3
30°	4373.9	4385.7	4382.4	4310.2	4151.3	4012.9	4100.4	4296.6	4331.4	4870.7	5159.5
32.5°	4682.2	4705.9	4724.6	4647.3	4448.6	4193.0	4182.8	4305.9	4331.4	4849.5	5127.2
35°	5002.3	5032.9	5101.7	5074.5	4812.9	4463.9	4324.6	4362.0	4383.2	4861.4	5111.9
37.5°	5317.4	5353.9	5503.4	5582.4	5290.2	4822.3	4545.4	4500.4	4511.4	4933.5	5128.9
40°	5683.5	5738.7	5965.4	6092.8	5860.1	5302.1	4875.8	4738.2	4742.5	5092.4	5207.9
42.5°	6164.2	6221.1	6466.5	6666.1	6502.2	5908.5	5324.2	5101.7	5097.5	5389.6	5393.9
45°	6750.2	6809.6	7063.6	7285.2	7211.3	6627.0	5898.3	5632.5	5627.4	5858.4	5746.3
47.5°	7414.3	7472.9	7699.7	7928.1	8008.0	7466.1	6629.6	6357.0	6345.1	6509.8	6290.7
50°	7984.2	8022.4	8231.3	8538.8	8898.9	8497.2	7539.2	7276.7	7264.0	7375.3	7089.9
52.5°	8191.4	8213.5	8425.8	8856.4	9755.0	9893.4	8734.1	8396.1	8386.8	8435.2	8154.1
55°	7771.9	7811.8	8072.5	8711.2	10218.7	11471.4	10242.5	9782.2	9711.7	9607.2	9266.6
57.5°	6628.7	6692.4	6972.7	7822.0	10002.1	12723.3	12459.1	11349.9	11246.3	10607.7	10171.1
60°	4966.7	5044.8	5277.5	6193.9	8846.2	13169.1	14881.3	13096.9	12863.4	11404.3	11002.6
62.5°	3408.2	3447.3	3605.2	4202.3	6514.9	12438.7	16907.7	15436.7	15010.4	12270.6	11902.0
65°	2603.1	2616.7	2681.2	2886.7	3879.6	10104.0	17713.7	18523.9	18008.4	13306.7	12835.4
67.5°	2097.8	2086.7	2175.9	2469.7	2598.0	6164.2	16773.5	21444.6	21203.4	14691.9	13774.7
69°	1849.8	1834.5	1925.3	2266.8	2440.0	4074.9	14995.1	22107.9	22123.2	15423.2	13839.2
70°	1664.6	1674.8	1764.8	2146.2	2386.5	3198.4	13296.5	21938.9	22059.5	15696.6	13451.9
72.5°	1111.7	1138.9	1319.8	1781.8	2294.8	2420.5	8028.4	18826.3	19290.0	15080.9	11541.0
75°	626.8	647.2	862.0	1343.6	2162.3	2305.0	4240.5	13869.8	14318.2	12611.1	8899.7
77.5°	307.4	318.5	487.5	867.1	1808.1	2196.3	2405.2	9421.2	9933.3	8231.3	5033.8
80°	129.9	135.9	243.7	535.1	1292.6	2096.1	1786.1	5798.1	5861.8	3224.8	1341.0
82.5°	50.1	51.8	102.8	333.8	821.3	1634.0	1493.9	2749.2	2682.9	607.2	305.7
85°	5.9	6.8	37.4	200.4	456.9	840.8	1213.6	1184.8	1096.4	120.6	157.1
87.5°	0.0	0.0	2.5	61.1	135.9	394.1	631.0	491.7	443.3	39.1	81.5
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°	5072.0	5072.0	5072.0	5072.0	5072.0	5072.0	5072.0	5072.0	5072.0	5072.0	5072.0
2.5°	5059.2	5050.7	5004.9	4938.6	4875.8	4797.7	4722.9	4677.9	4642.2	4618.5	4646.5
5°	5072.8	5035.5	4896.2	4717.8	4542.9	4345.8	4162.4	4007.0	3945.8	3877.9	3908.4
7.5°	5068.6	4998.1	4747.5	4429.9	4108.9	3776.8	3462.6	3220.5	3094.8	2971.7	3003.1
10°	5047.3	4928.4	4548.8	4078.3	3597.6	3120.3	2674.4	2335.6	2146.2	1974.6	1999.2
12.5°	5000.6	4835.0	4314.4	3675.7	3032.8	2403.5	1881.2	1447.2	1214.5	1111.7	1124.5
15°	4972.6	4744.1	4066.4	3268.1	2429.8	1674.0	1149.9	855.2	749.1	715.1	719.4
17.5°	4959.0	4656.7	3809.9	2801.8	1813.2	1065.9	743.1	655.7	632.7	626.8	628.5
20°	4945.4	4568.3	3545.8	2340.7	1249.3	716.8	610.6	585.2	576.7	569.0	570.7
22.5°	4922.5	4483.4	3262.1	1873.5	842.5	581.8	550.3	525.7	507.9	498.5	500.2
25°	4894.5	4394.2	2972.5	1395.4	614.9	518.9	489.2	454.4	433.1	416.2	417.0
27.5°	4849.5	4284.7	2673.6	1015.8	516.4	464.6	424.6	386.4	350.8	331.2	331.2
30°	4786.6	4160.7	2341.5	727.0	462.9	411.1	362.6	315.1	276.9	259.0	257.3
32.5°	4717.0	4031.6	2006.0	551.2	420.4	360.9	305.7	255.6	221.7	207.2	206.4
35°	4657.5	3892.3	1671.4	462.0	377.9	312.5	252.2	209.8	182.6	170.7	169.9
37.5°	4619.3	3753.0	1345.3	412.8	339.7	267.5	211.5	173.3	153.7	144.4	143.5
40°	4613.4	3649.4	1047.2	375.4	304.0	227.6	176.7	146.9	129.1	118.9	118.1
42.5°	4690.6	3590.0	803.4	344.0	267.5	192.8	150.3	125.7	107.0	96.8	96.0
45°	4893.6	3608.6	618.3	315.9	231.0	163.1	127.4	104.5	87.5	79.8	78.1
47.5°	5263.9	3737.7	491.7	287.9	196.2	138.4	108.7	86.6	72.2	64.5	63.7
50°	5923.0	4040.9	411.1	257.3	163.9	118.1	90.0	70.5	58.6	51.8	51.0
52.5°	6797.7	4581.1	366.9	227.6	135.9	100.2	73.9	56.1	45.9	40.8	39.9
55°	7762.5	5235.0	338.0	195.3	111.3	83.2	58.6	44.2	35.7	31.4	29.7
57.5°	8704.4	5801.5	310.8	163.9	92.6	67.9	46.7	34.8	28.0	23.8	22.9
60°	9569.8	6322.1	279.4	131.6	75.6	53.5	36.5	27.2	22.1	17.8	17.8
62.5°	10496.4	6724.7	236.1	102.8	62.0	40.8	29.7	24.6	17.8	15.3	14.4
65°	11478.2	7023.7	185.1	79.8	48.4	30.6	24.6	25.5	14.4	11.0	10.2
67.5°	12203.5	6964.2	136.7	62.8	37.4	23.8	23.8	27.2	12.7	8.5	7.6
69°	12043.8	6481.0	114.7	54.4	32.3	20.4	22.1	27.2	11.9	7.6	6.8
70°	11581.0	5945.9	101.1	48.4	28.9	18.7	21.2	26.3	11.0	7.6	6.8
72.5°	9644.6	4478.3	79.0	36.5	22.9	15.3	17.8	22.9	11.0	7.6	5.9
75°	7254.7	2866.4	60.3	26.3	17.0	11.9	13.6	17.0	11.0	6.8	5.9
77.5°	3947.5	1033.6	43.3	17.8	11.9	9.3	9.3	12.7	10.2	5.1	3.4
80°	1014.9	259.9	27.2	11.9	9.3	6.8	5.9	8.5	5.9	0.8	0.0
82.5°	250.5	58.6	14.4	8.5	6.8	2.5	2.5	4.2	2.5	0.0	0.0
85°	137.6	28.9	9.3	5.9	3.4	0.0	0.0	0.8	0.0	0.0	0.0
87.5°	70.5	8.5	2.5	1.7	0.8	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)