

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: P323338

Luminaire Tested: **GLEON-SA4D-827-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323338  
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-SA4D-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1200mA 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: 19058 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

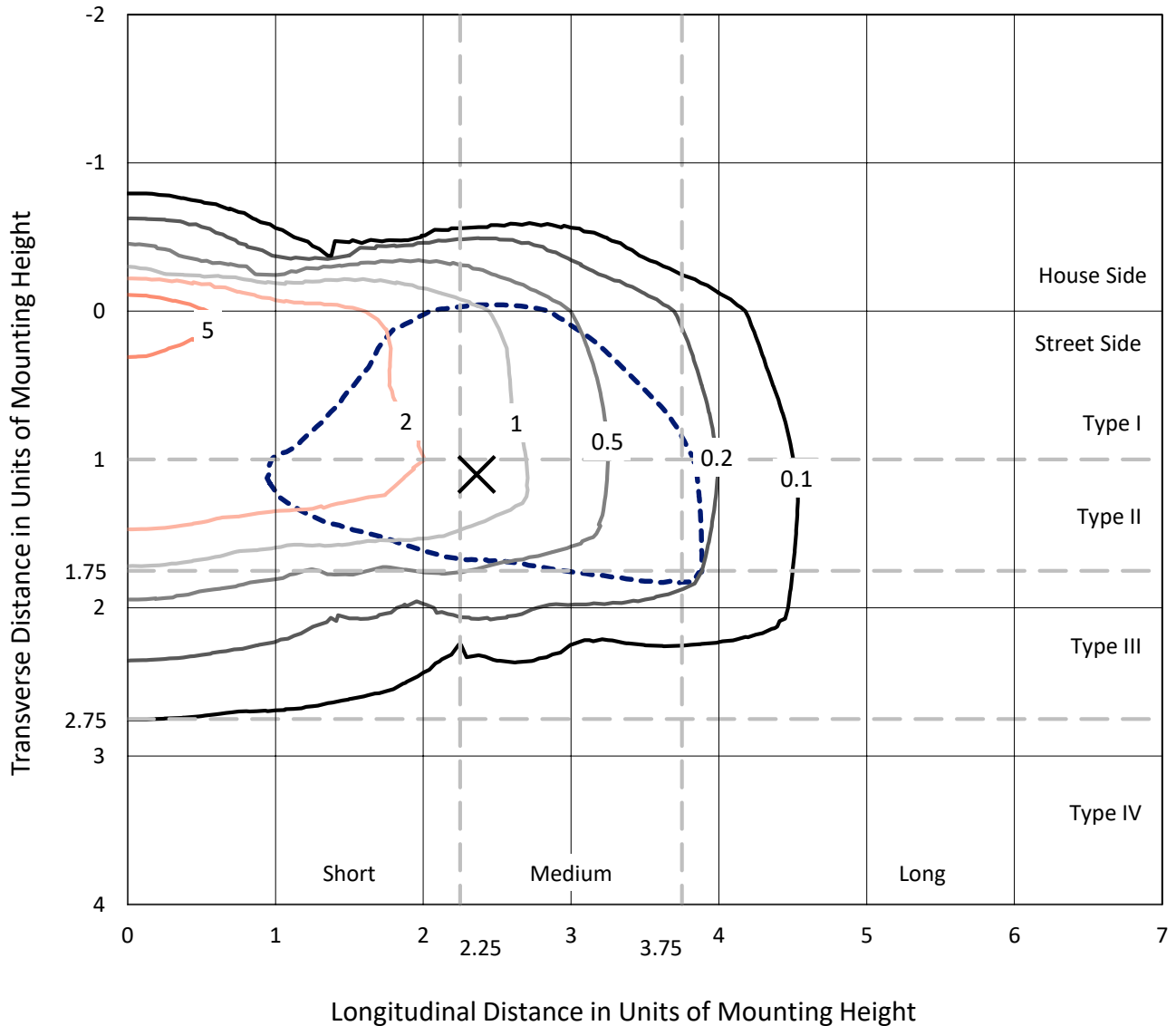
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

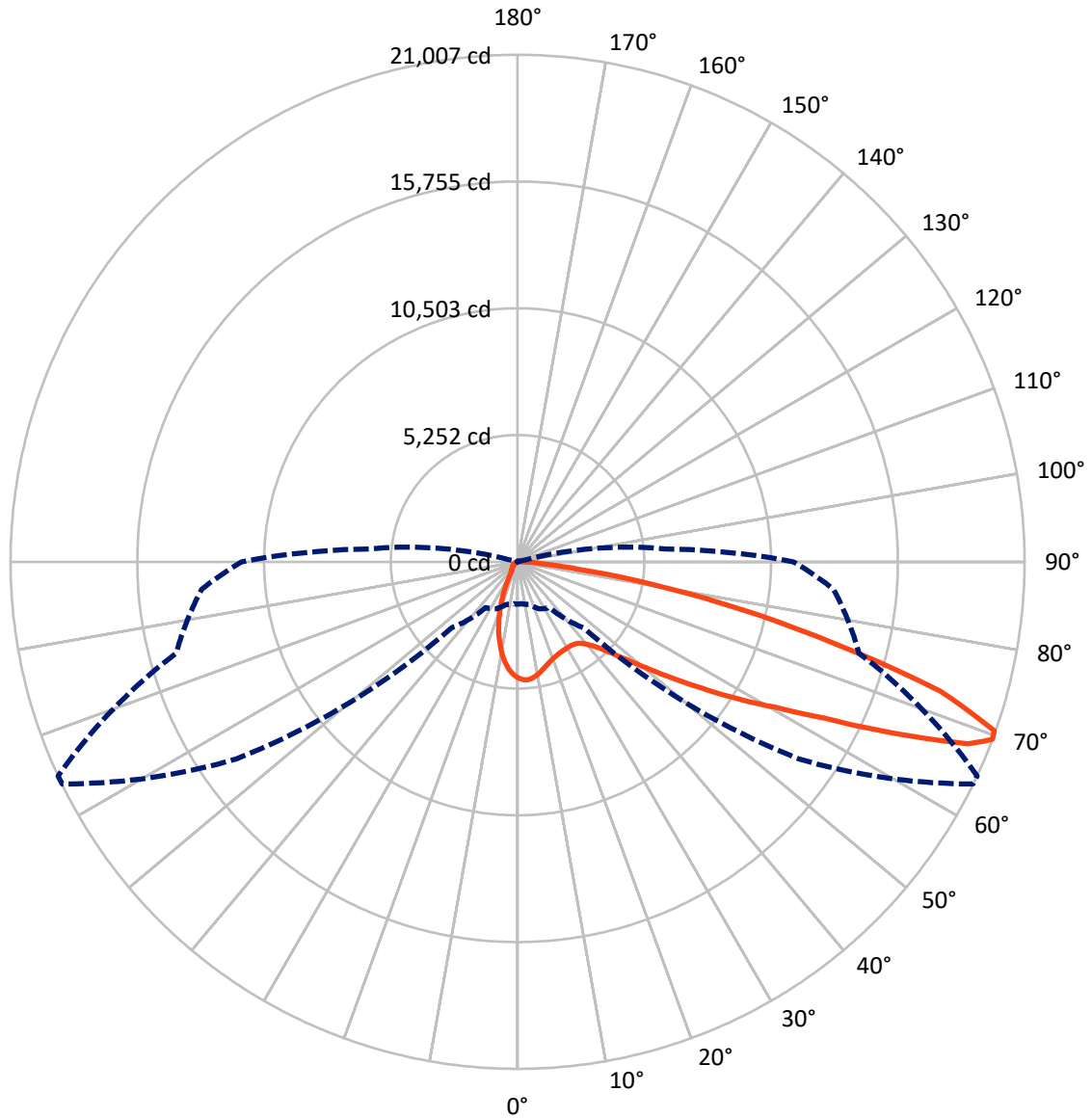
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	2246.5	0.0	2246.5
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	16811.5	0.0	16811.5
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	19058.0	0.0	19058.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.7	2.1
10°-20°	881.6	4.6
20°-30°	1221.0	6.4
30°-40°	1702.5	8.9
40°-50°	2646.2	13.9
50°-60°	4248.2	22.3
60°-70°	4805.4	25.2
70°-80°	2822.2	14.8
80°-90°	328.3	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°	19058.0	100.0
0°-180°	19058.0	100.0

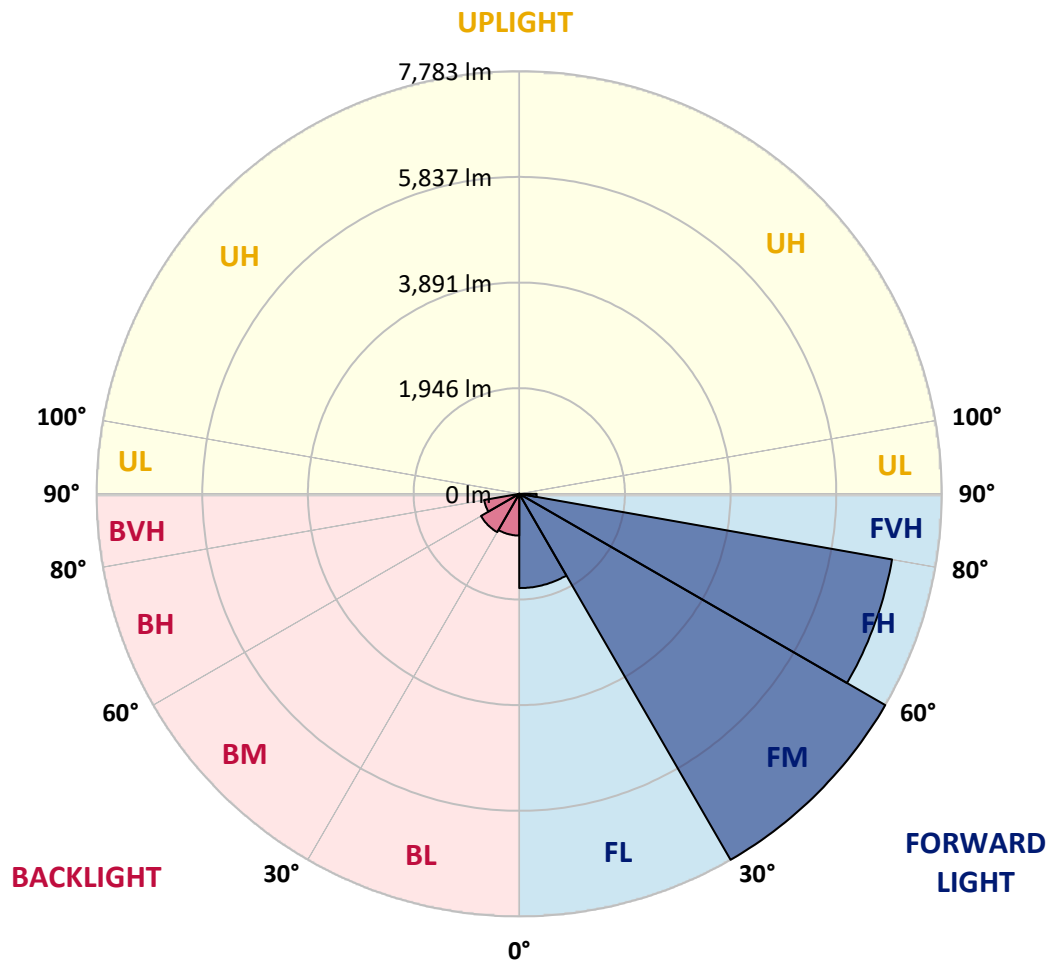


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1736.6	9.1			
FM (30°-60°)	7782.7	40.8			
FH (60°-80°)	6971.2	36.6			G3/7500
FVH (80°-90°)	320.9	1.7			G3/500
BL (0°-30°)	768.7	4.0	B2/1000		
BM (30°-60°)	814.1	4.3	B1/1000		
BH (60°-80°)	656.4	3.4	B2/1000		G2/1000
BVH (80°-90°)	7.4	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°	4816.0	4816.0	4816.0	4816.0	4816.0	4816.0	4816.0	4816.0	4816.0	4816.0	4816.0
2.5°	4858.7	4846.6	4856.3	4877.3	4887.8	4887.8	4895.8	4886.1	4889.4	4866.0	4832.1
5°	4554.7	4536.2	4562.8	4621.6	4694.2	4756.3	4848.2	4896.6	4901.5	4902.3	4862.8
7.5°	4227.3	4210.4	4249.9	4319.2	4412.8	4528.1	4688.6	4828.9	4837.0	4912.8	4883.7
10°	3961.2	3949.1	3995.0	4069.2	4178.9	4307.9	4504.7	4699.9	4723.3	4891.0	4880.5
12.5°	3749.9	3740.2	3783.8	3869.2	3981.3	4124.1	4329.7	4556.3	4587.8	4841.8	4864.4
15°	3595.9	3594.3	3630.5	3712.8	3837.0	3970.0	4180.5	4423.3	4459.5	4788.6	4862.0
17.5°	3515.2	3517.6	3544.3	3614.4	3720.9	3853.1	4054.7	4311.2	4350.7	4741.0	4874.1
20°	3507.2	3509.6	3524.1	3563.6	3649.9	3766.8	3952.3	4216.8	4257.9	4705.5	4893.4
22.5°	3578.1	3576.5	3580.5	3576.5	3624.9	3713.6	3884.6	4144.2	4191.8	4682.1	4908.7
25°	3714.4	3712.0	3710.4	3680.5	3648.3	3695.9	3856.3	4103.1	4148.3	4665.2	4917.6
27.5°	3903.9	3902.3	3899.9	3850.7	3753.9	3724.1	3859.6	4087.8	4125.7	4651.5	4916.0
30°	4153.1	4164.4	4161.2	4092.6	3941.8	3810.4	3893.4	4079.7	4112.8	4624.9	4899.1
32.5°	4445.8	4468.4	4486.2	4412.8	4224.1	3981.3	3971.7	4088.6	4112.8	4604.7	4868.4
35°	4749.9	4778.9	4844.2	4818.4	4570.0	4238.6	4106.3	4141.8	4162.0	4616.0	4853.9
37.5°	5049.0	5083.7	5225.7	5300.7	5023.2	4578.9	4316.0	4273.3	4283.7	4684.5	4870.0
40°	5396.6	5449.0	5664.4	5785.3	5564.4	5034.5	4629.7	4499.1	4503.1	4835.3	4945.0
42.5°	5853.1	5907.1	6140.1	6329.7	6174.0	5610.3	5055.5	4844.2	4840.2	5117.6	5121.6
45°	6409.5	6465.9	6707.1	6917.5	6847.4	6292.6	5600.6	5348.2	5343.4	5562.7	5456.3
47.5°	7040.1	7095.8	7311.1	7528.0	7603.8	7089.3	6295.0	6036.1	6024.8	6181.3	5973.2
50°	7581.2	7617.5	7815.9	8107.8	8449.8	8068.3	7158.7	6909.5	6897.4	7003.0	6732.1
52.5°	7778.0	7799.0	8000.6	8409.4	9262.6	9394.1	8293.3	7972.4	7963.5	8009.4	7742.5
55°	7379.6	7417.5	7665.1	8271.5	9702.9	10892.4	9725.5	9288.4	9221.5	9122.3	8798.9
57.5°	6294.2	6354.7	6620.8	7427.2	9497.3	12081.1	11830.3	10777.1	10678.7	10072.3	9657.8
60°	4716.0	4790.2	5011.1	5881.3	8399.8	12504.5	14130.2	12435.9	12214.2	10828.7	10447.3
62.5°	3236.2	3273.3	3423.3	3990.2	6186.1	11810.9	16054.4	14657.6	14252.8	11651.3	11301.3
65°	2471.7	2484.6	2545.9	2741.0	3683.8	9594.1	16819.7	17589.0	17099.5	12635.1	12187.6
67.5°	1991.9	1981.4	2066.1	2345.1	2466.9	5853.1	15927.0	20362.3	20133.3	13950.4	13079.5
69°	1756.4	1741.9	1828.2	2152.4	2316.9	3869.2	14238.3	20992.1	21006.7	14644.7	13140.7
70°	1580.6	1590.3	1675.8	2037.8	2266.1	3037.0	12625.4	20831.7	20946.2	14904.4	12773.0
72.5°	1055.6	1081.4	1253.2	1691.9	2179.0	2298.3	7623.2	17876.1	18316.4	14319.7	10958.6
75°	595.1	614.5	818.5	1275.8	2053.2	2188.6	4026.5	13169.8	13595.6	11974.7	8450.6
77.5°	291.9	302.4	462.9	823.4	1716.9	2085.4	2283.8	8945.7	9432.0	7815.9	4779.7
80°	123.4	129.0	231.4	508.0	1227.4	1990.3	1695.9	5505.5	5566.0	3062.0	1273.4
82.5°	47.6	49.2	97.6	316.9	779.8	1551.6	1418.5	2610.4	2547.5	576.6	290.3
85°	5.6	6.5	35.5	190.3	433.9	798.4	1152.4	1125.0	1041.1	114.5	149.2
87.5°	0.0	0.0	2.4	58.1	129.0	374.2	599.2	466.9	421.0	37.1	77.4
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°	4816.0	4816.0	4816.0	4816.0	4816.0	4816.0	4816.0	4816.0	4816.0	4816.0	4816.0
2.5°	4803.9	4795.8	4752.3	4689.4	4629.7	4555.5	4484.5	4441.8	4407.9	4385.4	4412.0
5°	4816.8	4781.3	4649.1	4479.7	4313.6	4126.5	3952.3	3804.7	3746.7	3682.2	3711.2
7.5°	4812.8	4745.8	4507.9	4206.3	3901.5	3586.2	3287.8	3058.0	2938.6	2821.7	2851.5
10°	4792.6	4679.7	4319.2	3872.5	3416.0	2962.8	2539.4	2217.7	2037.8	1874.9	1898.3
12.5°	4748.3	4591.0	4096.7	3490.2	2879.8	2282.2	1786.2	1374.2	1153.2	1055.6	1067.7
15°	4721.6	4504.7	3861.2	3103.1	2307.2	1589.5	1091.9	812.1	711.3	679.0	683.0
17.5°	4708.7	4421.6	3617.6	2660.4	1721.7	1012.1	705.6	622.6	600.8	595.1	596.8
20°	4695.8	4337.8	3366.8	2222.5	1186.3	680.6	579.8	555.6	547.6	540.3	541.9
22.5°	4674.1	4257.1	3097.5	1779.0	800.0	552.4	522.6	499.2	482.2	473.4	475.0
25°	4647.4	4172.5	2822.5	1325.0	583.9	492.7	464.5	431.4	411.3	395.1	396.0
27.5°	4604.7	4068.4	2538.6	964.5	490.3	441.1	403.2	366.9	333.1	314.5	314.5
30°	4545.0	3950.7	2223.3	690.3	439.5	390.3	344.3	299.2	262.9	246.0	244.3
32.5°	4478.9	3828.1	1904.8	523.4	399.2	342.7	290.3	242.7	210.5	196.8	196.0
35°	4422.5	3695.9	1587.1	438.7	358.9	296.8	239.5	199.2	173.4	162.1	161.3
37.5°	4386.2	3563.6	1277.4	391.9	322.6	254.0	200.8	164.5	146.0	137.1	136.3
40°	4380.5	3465.2	994.3	356.4	288.7	216.1	167.7	139.5	122.6	112.9	112.1
42.5°	4453.9	3408.8	762.9	326.6	254.0	183.1	142.7	119.4	101.6	91.9	91.1
45°	4646.6	3426.5	587.1	300.0	219.3	154.8	121.0	99.2	83.1	75.8	74.2
47.5°	4998.2	3549.1	466.9	273.4	186.3	131.4	103.2	82.3	68.5	61.3	60.5
50°	5624.0	3837.0	390.3	244.3	155.6	112.1	85.5	66.9	55.6	49.2	48.4
52.5°	6454.7	4349.9	348.4	216.1	129.0	95.2	70.2	53.2	43.5	38.7	37.9
55°	7370.8	4970.8	321.0	185.5	105.6	79.0	55.6	41.9	33.9	29.8	28.2
57.5°	8265.1	5508.7	295.2	155.6	87.9	64.5	44.4	33.1	26.6	22.6	21.8
60°	9086.8	6003.1	265.3	125.0	71.8	50.8	34.7	25.8	21.0	16.9	16.9
62.5°	9966.6	6385.3	224.2	97.6	58.9	38.7	28.2	23.4	16.9	14.5	13.7
65°	10898.9	6669.2	175.8	75.8	46.0	29.0	23.4	24.2	13.7	10.5	9.7
67.5°	11587.6	6612.7	129.8	59.7	35.5	22.6	22.6	25.8	12.1	8.1	7.3
69°	11436.0	6153.9	108.9	51.6	30.6	19.4	21.0	25.8	11.3	7.3	6.5
70°	10996.5	5645.8	96.0	46.0	27.4	17.7	20.2	25.0	10.5	7.3	6.5
72.5°	9157.8	4252.3	75.0	34.7	21.8	14.5	16.9	21.8	10.5	7.3	5.6
75°	6888.5	2721.7	57.3	25.0	16.1	11.3	12.9	16.1	10.5	6.5	5.6
77.5°	3748.3	981.4	41.1	16.9	11.3	8.9	8.9	12.1	9.7	4.8	3.2
80°	963.7	246.8	25.8	11.3	8.9	6.5	5.6	8.1	5.6	0.8	0.0
82.5°	237.9	55.6	13.7	8.1	6.5	2.4	2.4	4.0	2.4	0.0	0.0
85°	130.6	27.4	8.9	5.6	3.2	0.0	0.0	0.8	0.0	0.0	0.0
87.5°	66.9	8.1	2.4	1.6	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)