

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: P383055

Luminaire Tested: **GLEON-SA4A-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4A-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17513.1 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

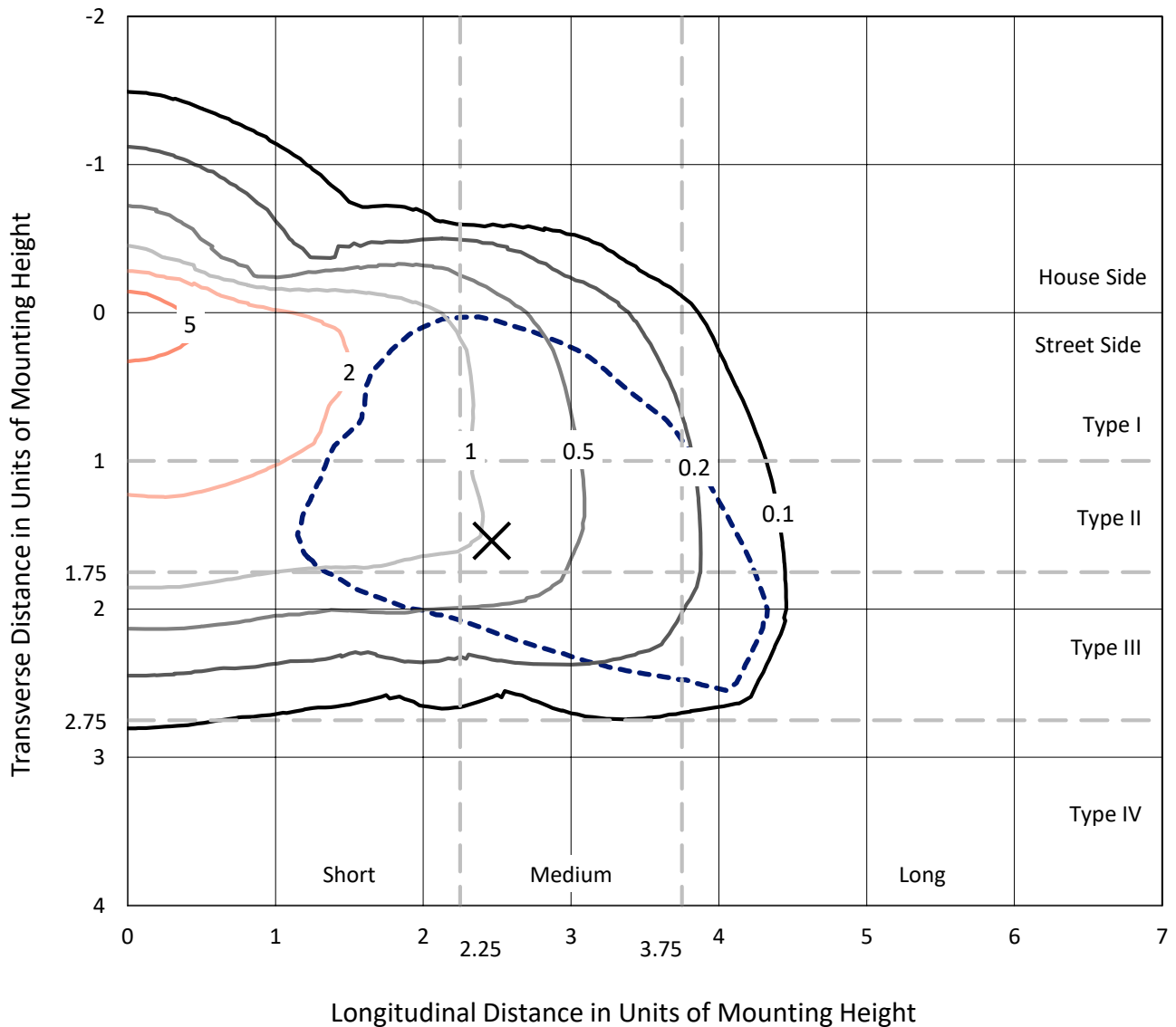
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

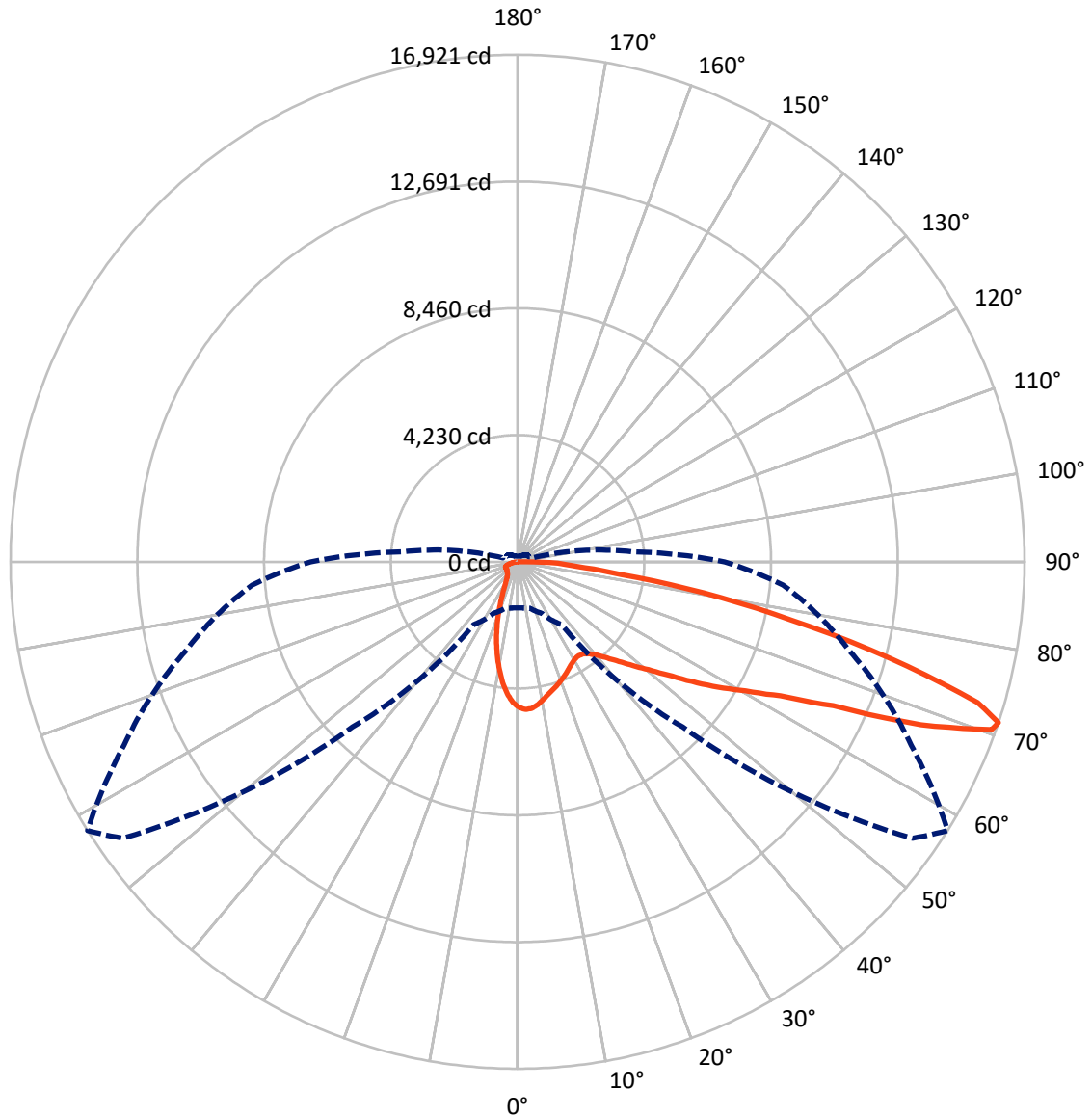
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2618.3	0.0	2618.3
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	14894.8	0.0	14894.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	17513.1	0.0	17513.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.6	2.4
10°-20°	930.8	5.3
20°-30°	1183.0	6.8
30°-40°	1506.9	8.6
40°-50°	2136.8	12.2
50°-60°	3306.8	18.9
60°-70°	4501.8	25.7
70°-80°	3003.2	17.1
80°-90°	525.1	3.0
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°	17513.1	100.0
0°-180°	17513.1	100.0

**Coefficient of Utilization**

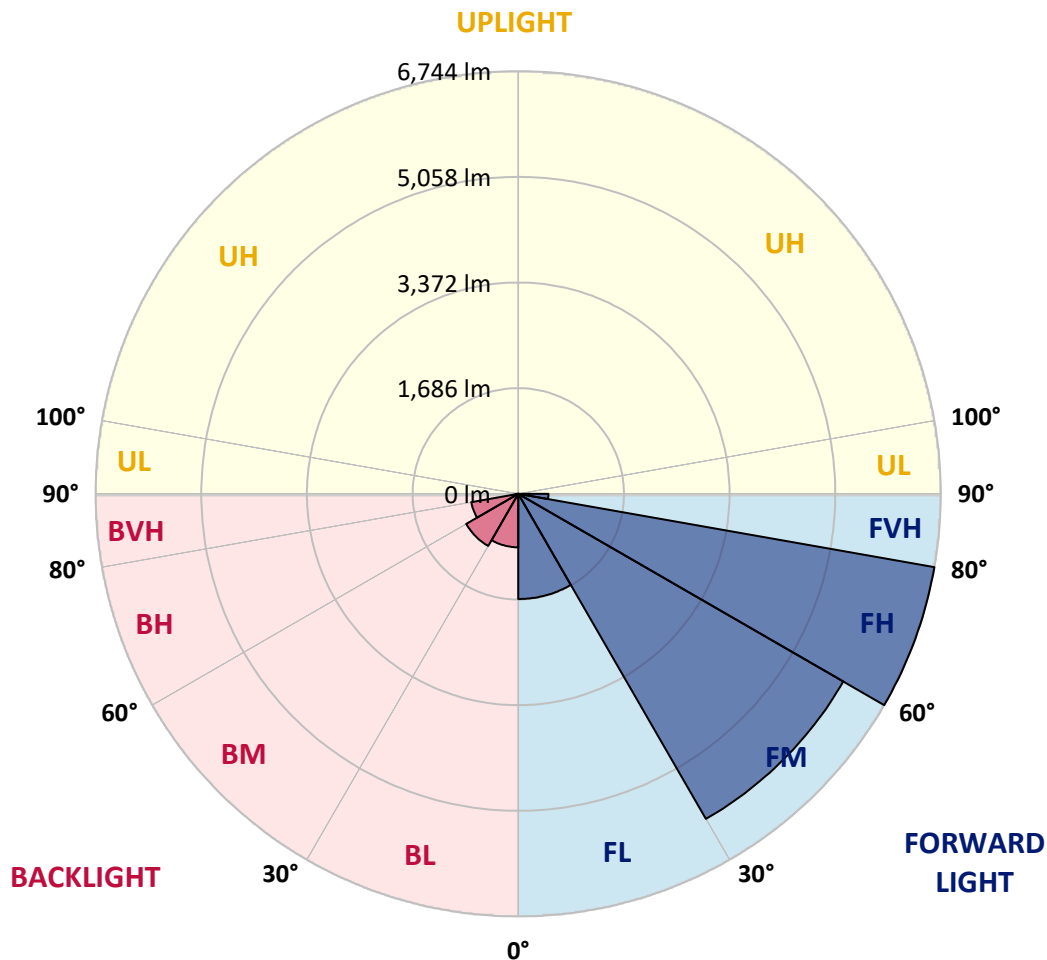


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1678.9	9.6			
FM (30°-60°)	5990.3	34.2			
FH (60°-80°)	6744.1	38.5			G3/7500
FVH (80°-90°)	481.4	2.7			G3/500
BL (0°-30°)	853.5	4.9	B2/1000		
BM (30°-60°)	960.2	5.5	B1/1000		
BH (60°-80°)	761.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	43.6	0.2			G1/100
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°	58°	65°	75°	85°
0°	4852.3	4852.3	4852.3	4852.3	4852.3	4852.3	4852.3	4852.3	4852.3	4852.3	4852.3
2.5°	4981.0	4974.3	4976.8	4971.9	4960.3	4948.7	4931.6	4934.7	4910.8	4875.4	4831.6
5°	4887.1	4884.7	4902.9	4913.3	4921.8	4915.1	4910.3	4916.3	4881.6	4832.8	4756.5
7.5°	4690.1	4663.1	4686.3	4721.2	4754.1	4779.1	4812.0	4816.3	4794.3	4743.1	4643.0
10°	4410.0	4384.4	4418.5	4472.8	4538.8	4598.5	4665.0	4677.2	4681.5	4635.1	4513.7
12.5°	4119.7	4100.1	4134.3	4210.5	4319.8	4411.8	4518.0	4536.3	4574.1	4543.0	4394.1
15°	3859.8	3852.4	3894.0	3969.0	4094.6	4235.6	4388.7	4422.2	4486.2	4475.9	4300.9
17.5°	3635.3	3633.4	3665.2	3743.9	3883.0	4061.1	4260.0	4316.7	4411.8	4424.0	4223.9
20°	3468.2	3464.4	3486.4	3544.4	3687.7	3889.7	4120.9	4199.0	4336.2	4378.9	4144.6
22.5°	3378.4	3377.8	3378.4	3405.9	3523.0	3710.9	3985.4	4080.6	4262.4	4342.9	4056.8
25°	3363.2	3361.3	3347.9	3344.9	3411.3	3561.4	3851.2	3956.1	4192.2	4317.9	3973.2
27.5°	3402.9	3405.3	3387.6	3358.9	3372.3	3463.2	3734.7	3846.9	4136.1	4313.0	3915.3
30°	3485.2	3484.0	3468.7	3438.8	3412.6	3426.6	3651.8	3764.0	4098.3	4334.4	3875.6
32.5°	3576.1	3582.8	3579.8	3563.3	3524.2	3468.2	3626.7	3736.5	4087.3	4385.6	3858.6
35°	3685.3	3692.6	3714.5	3727.4	3681.7	3591.3	3680.4	3775.6	4119.0	4482.0	3886.0
37.5°	3789.0	3807.9	3869.6	3923.8	3884.7	3784.1	3823.2	3890.9	4217.2	4633.9	3959.8
40°	3908.6	3925.1	4025.7	4141.0	4134.9	4030.5	4053.2	4098.3	4390.5	4851.7	4093.4
42.5°	4026.3	4059.2	4205.0	4368.5	4415.5	4323.4	4359.4	4383.2	4634.5	5140.3	4326.5
45°	4183.1	4218.4	4421.0	4618.1	4727.9	4676.0	4733.4	4742.5	4941.4	5533.1	4665.0
47.5°	4420.4	4460.6	4696.8	4903.6	5071.3	5076.7	5171.4	5167.7	5324.4	5982.7	5091.5
50°	4790.1	4848.1	5041.4	5234.8	5438.6	5552.0	5678.3	5660.6	5783.8	6461.6	5582.5
52.5°	5274.4	5301.3	5444.6	5587.4	5840.6	6094.9	6276.1	6260.3	6304.8	6953.9	6140.1
55°	5776.5	5796.6	5855.8	5933.9	6274.3	6689.2	7072.2	7047.3	6934.3	7465.1	6690.9
57.5°	6228.0	6268.8	6309.7	6342.1	6711.1	7310.1	7886.7	7888.5	7617.6	8016.6	7260.1
60°	6298.1	6334.1	6604.4	6859.4	7458.4	8138.7	8758.4	8740.2	8324.7	8615.0	7894.6
62.5°	5567.3	5648.4	6099.9	6778.2	8178.2	9654.0	9870.5	9847.9	9170.2	9352.6	8633.4
65°	3989.7	4081.9	4626.6	5645.9	7829.3	11323.6	11877.6	11573.7	10323.2	10259.7	9498.4
67.5°	2301.7	2323.7	2559.7	3378.4	5961.3	11410.9	14939.4	14514.2	12113.7	11288.9	9921.7
70°	1702.0	1701.4	1757.6	2079.0	3225.9	9313.0	16395.6	16776.9	13998.7	11627.5	9323.3
71°	1539.1	1541.0	1603.8	1892.3	2554.9	7795.2	16086.2	16920.8	14495.3	11460.3	8890.2
72.5°	1316.5	1322.6	1409.8	1697.2	2149.2	5375.7	14753.9	16057.0	14730.7	11047.9	8212.4
75°	998.6	1012.7	1133.5	1430.6	1964.4	2726.3	10828.3	12821.9	13086.1	9748.6	6102.3
77.5°	712.5	728.4	865.0	1203.0	1867.4	2054.6	7251.6	9352.6	9630.2	6247.5	2752.5
80°	450.2	469.1	572.2	957.2	1754.5	1950.9	4557.0	6286.5	5251.2	1999.1	700.3
82.5°	264.2	278.8	355.0	625.3	1433.0	1878.9	2681.2	3484.5	2043.6	603.9	318.4
85°	153.1	159.9	221.4	398.3	1040.7	1773.4	1969.9	1947.9	887.0	295.3	150.7
87.5°	71.4	79.3	131.2	208.0	577.7	1285.3	1556.8	1345.2	551.5	138.5	70.8
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°	4852.3	4852.3	4852.3	4852.3	4852.3	4852.3	4852.3	4852.3	4852.3	4852.3	4852.3
2.5°	4810.2	4799.8	4756.5	4718.1	4677.9	4625.3	4567.4	4560.1	4524.7	4531.4	4519.2
5°	4715.0	4688.9	4584.5	4490.0	4378.3	4278.2	4169.7	4119.7	4047.7	4042.7	4024.5
7.5°	4579.0	4530.2	4368.5	4189.2	4009.8	3839.0	3670.0	3559.0	3445.5	3397.4	3393.1
10°	4425.9	4342.9	4105.0	3839.7	3581.0	3331.5	3089.9	2911.2	2750.1	2673.8	2670.7
12.5°	4280.6	4158.1	3831.7	3470.6	3116.7	2793.4	2462.2	2227.2	2025.4	1957.6	1929.0
15°	4157.5	3984.8	3565.7	3103.9	2674.5	2225.5	1848.5	1601.3	1414.6	1350.0	1337.8
17.5°	4037.9	3815.8	3293.0	2733.6	2214.5	1720.9	1343.3	1159.7	1060.3	1034.0	1033.5
20°	3918.9	3642.0	3008.2	2354.8	1769.8	1287.2	1032.8	950.5	916.9	913.8	909.0
22.5°	3784.1	3457.7	2708.6	1974.7	1381.1	1012.0	877.9	844.9	840.6	851.6	851.6
25°	3657.8	3274.8	2404.8	1602.6	1074.3	844.3	783.9	777.2	788.8	808.3	810.2
27.5°	3540.1	3098.4	2108.3	1271.9	860.7	743.7	718.6	726.6	747.3	769.8	770.5
30°	3443.1	2931.9	1820.3	1002.3	727.2	668.6	664.4	680.2	702.8	720.5	724.7
32.5°	3368.1	2789.7	1542.2	805.9	640.0	612.5	616.1	629.5	643.6	653.4	660.1
35°	3333.3	2667.8	1285.3	679.6	584.5	569.2	574.0	581.4	587.4	594.8	600.3
37.5°	3339.4	2573.2	1056.0	600.8	547.2	539.3	539.3	539.3	539.3	542.9	543.6
40°	3396.1	2518.9	869.3	550.8	522.2	513.7	506.9	500.9	496.0	498.4	497.2
42.5°	3541.3	2514.0	732.7	519.2	502.1	488.0	474.6	466.1	460.0	462.4	463.6
45°	3787.8	2575.0	640.5	496.6	483.2	461.8	444.7	435.6	431.3	439.2	440.4
47.5°	4106.8	2708.0	584.5	480.1	465.5	437.4	419.1	410.5	411.7	423.4	426.5
50°	4518.0	2923.9	557.6	469.8	453.3	416.7	397.8	390.4	394.0	410.5	414.3
52.5°	4969.4	3235.1	560.6	466.7	445.4	401.4	381.3	372.7	378.9	394.0	397.1
55°	5490.4	3609.0	611.3	471.0	433.7	391.6	367.9	353.2	358.1	372.2	374.6
57.5°	6069.3	4037.2	713.1	469.8	419.1	382.5	353.8	331.9	335.5	344.0	346.5
60°	6672.0	4554.6	871.2	473.4	412.4	371.5	334.9	307.5	306.2	313.6	314.8
62.5°	7395.6	5153.0	1051.7	475.8	416.7	357.5	309.9	283.1	279.4	281.2	282.4
65°	8141.1	5586.2	984.0	466.1	430.1	345.9	287.9	259.2	252.5	251.3	252.0
67.5°	8164.3	5121.9	690.0	446.6	435.6	339.8	271.5	239.1	228.1	223.9	223.3
70°	7321.8	4161.1	537.4	425.8	413.6	330.0	256.2	222.6	206.2	199.4	198.9
71°	6910.6	3830.4	509.4	415.5	397.1	320.3	249.5	215.4	198.2	191.0	189.8
72.5°	6265.8	3434.0	475.2	399.0	365.4	295.3	236.7	204.9	187.2	178.8	176.9
75°	4496.7	2245.6	408.1	355.7	302.6	235.5	207.5	184.3	169.0	158.6	157.4
77.5°	1732.5	893.7	308.7	295.9	231.9	184.3	170.8	159.2	148.2	137.9	137.2
80°	535.6	399.5	225.1	222.6	167.8	137.2	133.0	130.0	125.7	114.7	112.3
82.5°	286.1	229.3	154.9	143.9	109.8	91.5	96.4	97.6	98.2	86.6	85.4
85°	136.7	121.4	87.2	81.8	64.1	51.2	59.2	64.1	64.6	53.1	49.4
87.5°	65.3	63.4	40.9	31.1	23.8	17.0	20.8	25.6	28.0	20.1	17.7
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)