

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: P454949

Luminaire Tested: **GALN-SA6A-760-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-760-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22218 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

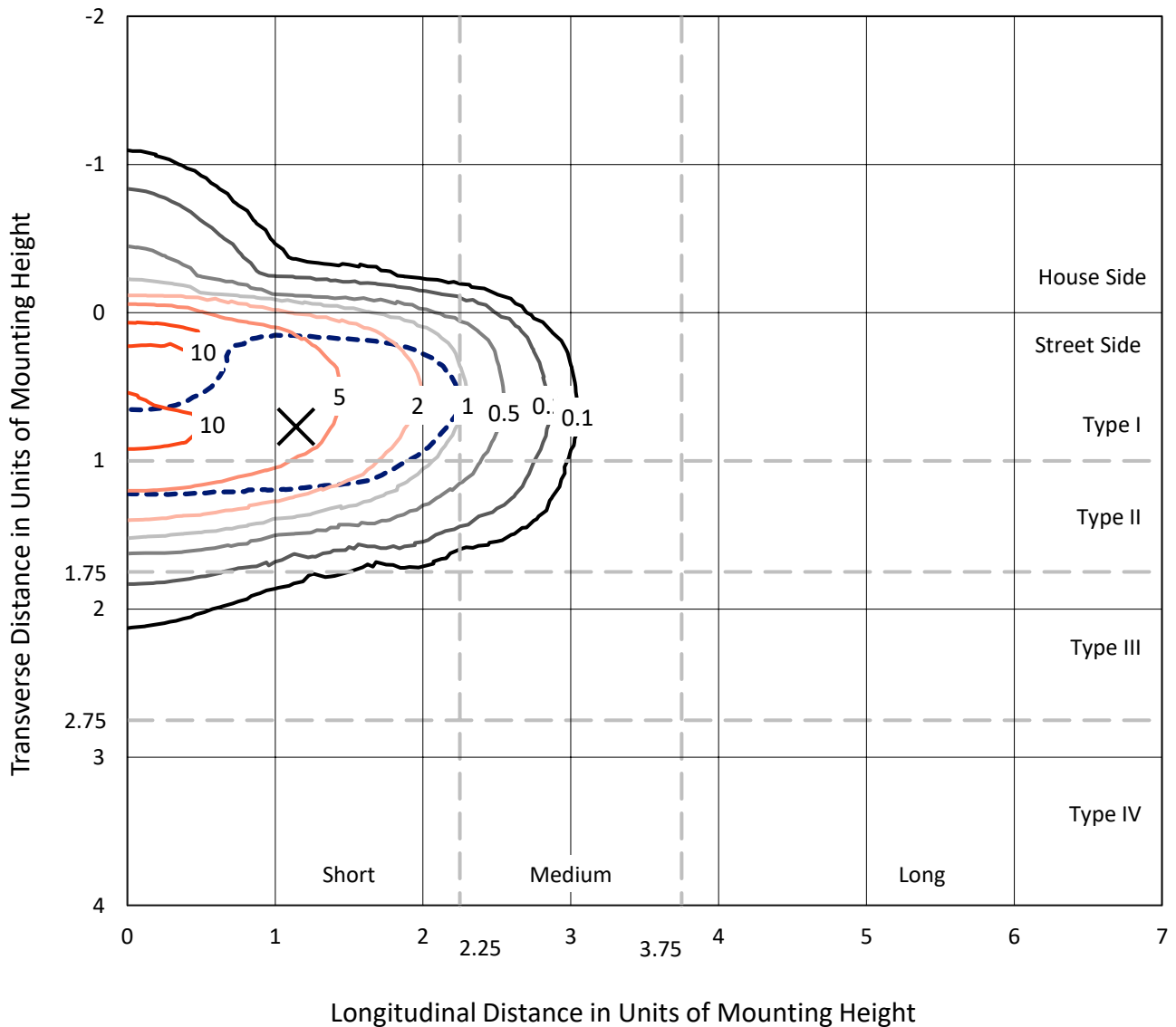
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

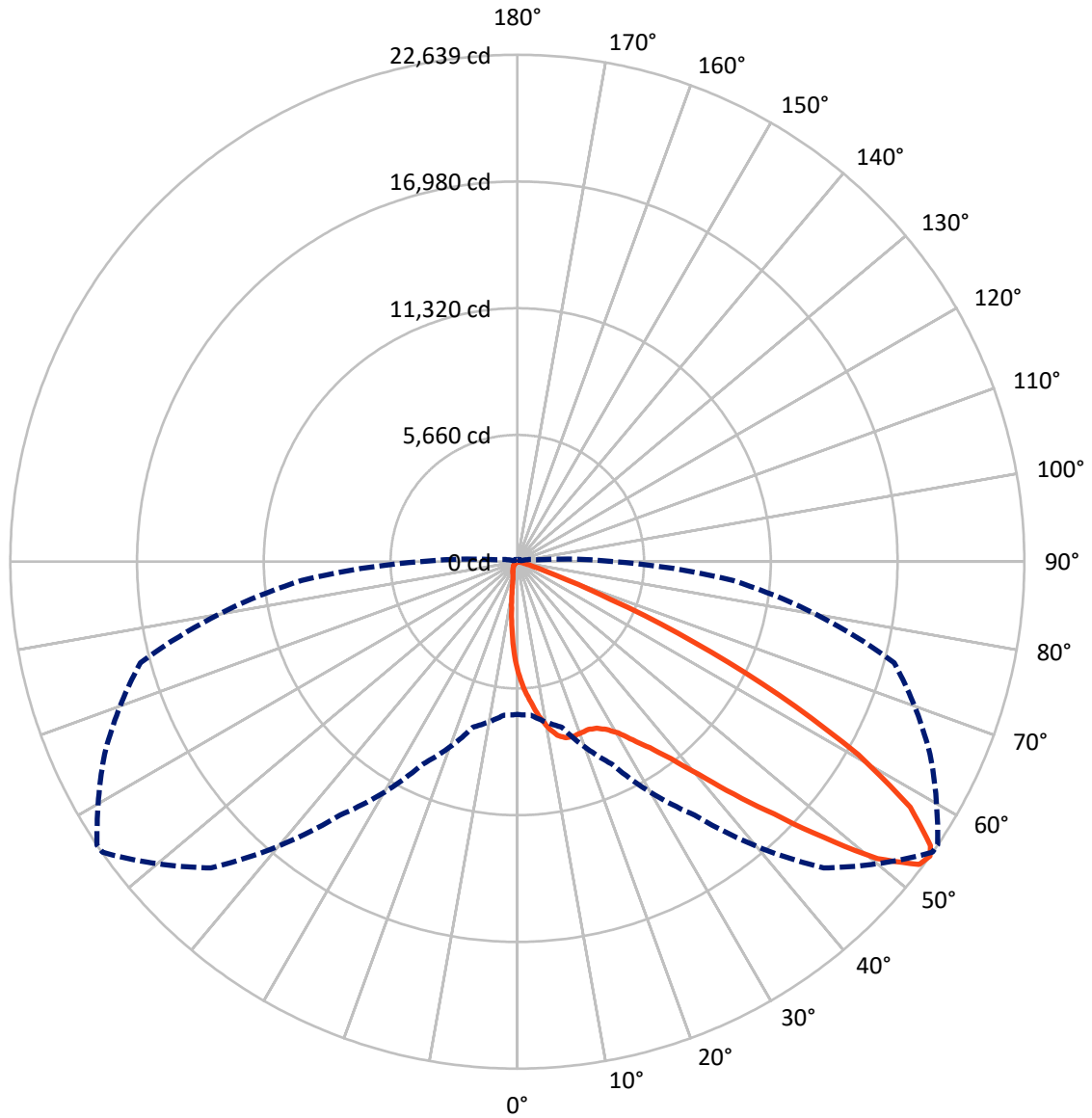
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1050.6	0.0	1050.6
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	21167.4	0.0	21167.4
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	22218.0	0.0	22218.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.2	2.0
10°-20°	1179.2	5.3
20°-30°	2042.2	9.2
30°-40°	3525.2	15.9
40°-50°	6000.0	27.0
50°-60°	5937.8	26.7
60°-70°	2710.1	12.2
70°-80°	348.1	1.6
80°-90°	39.2	0.2
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°	22218.0	100.0
0°-180°	22218.0	100.0

**Coefficient of Utilization**



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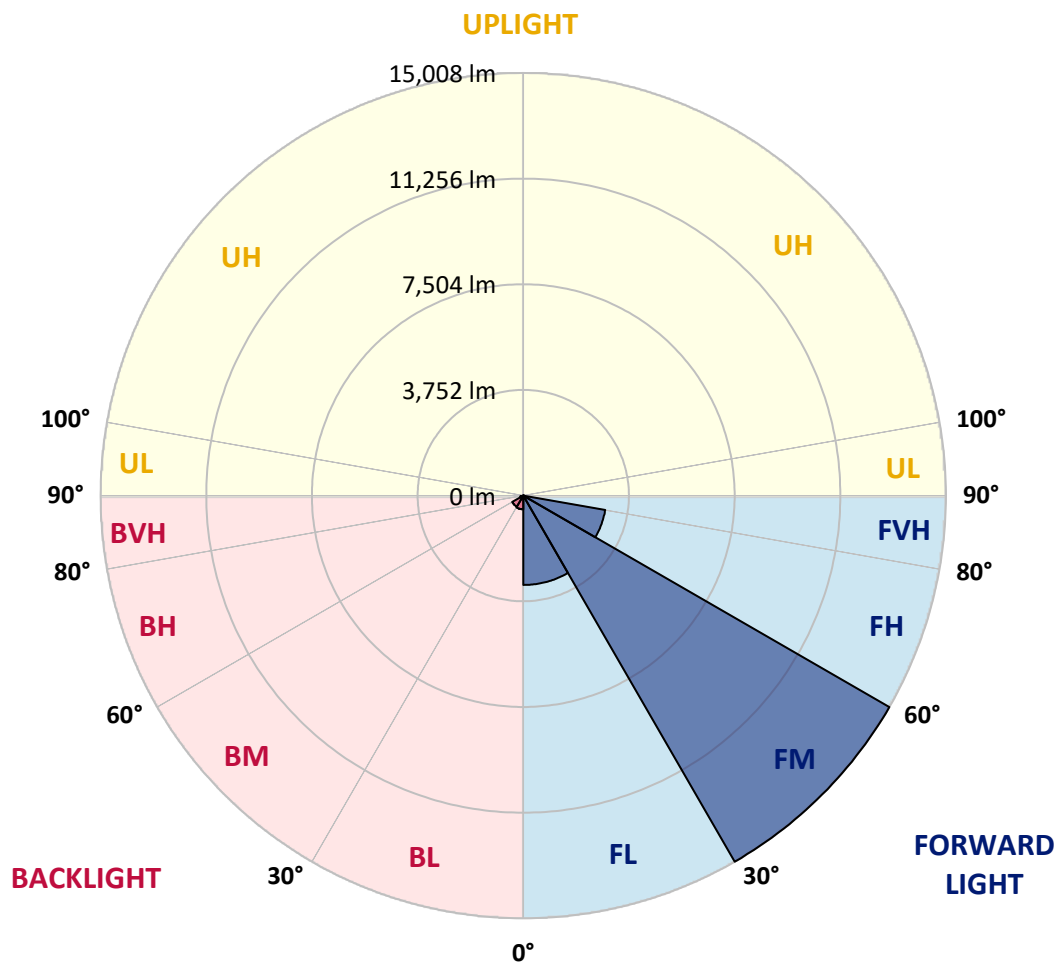
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3171.7	14.3			
FM (30°-60°)	15007.7	67.5			
FH (60°-80°)	2953.0	13.3			G2/5000
FVH (80°-90°)	35.0	0.2			G1/100
BL (0°-30°)	485.9	2.2	B1/500		
BM (30°-60°)	455.3	2.0	B1/1000		
BH (60°-80°)	105.2	0.5	B0/110		G0/110
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2
2.5°	6273.3	6229.8	6169.9	6123.4	6014.0	5856.6	5690.2	5690.2	5529.8	5306.5	5078.6
5°	7235.7	7207.2	7148.7	7028.8	6905.9	6685.5	6351.3	6292.8	6006.5	5601.8	5176.0
7.5°	7626.9	7640.4	7643.4	7611.9	7553.5	7336.1	7004.8	6964.3	6507.2	5964.5	5303.5
10°	7252.2	7318.1	7382.6	7513.0	7697.4	7749.8	7562.4	7520.5	7070.8	6331.8	5441.4
12.5°	6694.5	6730.5	6766.5	6971.8	7342.1	7766.3	7962.7	7961.2	7580.4	6697.5	5616.7
15°	6435.2	6466.7	6469.7	6561.1	6881.9	7499.5	8133.6	8156.0	8078.1	7148.7	5805.6
17.5°	6489.2	6514.6	6493.7	6516.1	6684.0	7205.7	8114.1	8189.0	8481.3	7581.9	5976.5
20°	6841.4	6890.9	6809.9	6747.0	6798.0	7127.7	8048.1	8153.1	8766.1	8004.7	6132.4
22.5°	7474.0	7501.0	7399.1	7226.7	7136.7	7291.1	8030.1	8133.6	9009.0	8350.9	6222.3
25°	8177.0	8168.0	8055.6	7862.2	7673.4	7620.9	8148.6	8241.5	9209.8	8662.7	6249.3
27.5°	8880.1	8907.0	8718.2	8478.3	8252.0	8115.6	8413.9	8482.8	9436.2	9018.0	6282.3
30°	9697.0	9653.5	9467.7	9193.4	8934.0	8743.7	8841.1	8860.6	9748.0	9488.7	6369.2
32.5°	10759.8	10639.9	10431.5	9951.8	9766.0	9443.7	9467.7	9491.7	10127.2	9954.8	6474.2
35°	12201.8	12195.8	11788.1	11142.1	10689.4	10289.1	10184.2	10203.7	10701.3	10647.4	6706.5
37.5°	13937.7	13961.7	13497.0	12846.4	12013.0	11377.4	11161.5	11164.5	11573.8	11603.7	7060.3
40°	15351.2	15414.2	15136.9	14697.7	13874.7	12880.9	12518.1	12485.2	12799.9	12762.5	7565.4
42.5°	15959.8	16018.3	16121.7	16274.6	15821.9	15002.0	14146.0	14191.0	14287.0	14024.6	8132.1
45°	15661.5	15754.5	16160.7	17105.1	17530.8	17255.0	16234.2	16076.8	15670.5	15396.2	8701.7
47.5°	14418.9	14645.2	15324.3	16896.7	18386.7	19319.1	18590.6	18382.2	17055.6	16397.5	9064.4
50°	12375.7	12389.2	13335.1	15345.2	17943.0	20621.7	20996.5	20840.6	18346.2	16959.7	9247.3
52.5°	8971.5	9266.8	10133.2	12461.2	16021.3	20423.8	22529.9	22465.5	19677.3	17247.5	9511.1
54°	6820.4	6877.4	7647.9	9957.8	13813.3	19337.1	22624.4	22639.4	20338.4	17421.4	9667.0
55°	5591.3	5454.9	6264.3	8482.8	12306.8	18376.2	22315.6	22387.5	20635.2	17511.3	9782.5
57.5°	2650.2	2651.7	3270.8	4474.5	7707.8	14269.0	20428.3	20683.2	20668.2	17665.7	10137.7
60°	1341.6	1350.6	1487.0	2065.6	3807.5	9485.7	16890.7	17497.8	19077.7	17688.2	10254.6
62.5°	938.4	927.9	905.4	993.8	1602.4	4820.8	12575.1	13102.7	16208.7	16832.3	9882.9
65°	803.5	781.0	718.0	704.5	809.5	1920.2	7832.3	8692.7	12375.7	14574.8	8824.6
67.5°	686.5	677.5	620.6	586.1	572.6	836.4	4041.3	4494.0	8458.8	10476.5	6684.0
70°	583.1	578.6	544.1	500.7	463.2	500.7	1499.0	1857.3	4714.3	5640.7	3153.9
72.5°	473.7	478.2	484.2	428.7	389.7	355.3	640.1	745.0	1972.7	2016.2	1103.3
75°	415.2	410.7	410.7	373.3	325.3	263.8	352.3	379.2	604.1	560.6	256.3
77.5°	292.3	281.8	329.8	307.3	271.3	187.4	200.9	212.9	250.3	214.4	119.9
80°	202.4	202.4	211.4	275.8	244.3	136.4	122.9	131.9	148.4	127.4	69.0
82.5°	113.9	116.9	137.9	146.9	142.4	91.4	80.9	82.4	98.9	86.9	43.5
85°	13.5	22.5	79.4	77.9	58.5	40.5	45.0	46.5	61.5	54.0	25.5
87.5°	1.5	3.0	16.5	21.0	15.0	16.5	16.5	16.5	21.0	24.0	18.0
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°	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2	4936.2
2.5°	4955.7	4841.8	4570.4	4255.7	4054.8	3728.0	3452.2	3252.8	3203.4	3107.4	3135.9
5°	4949.7	4712.9	4159.7	3575.1	2951.5	2486.8	2140.6	1867.8	1747.8	1668.4	1612.9
7.5°	4952.7	4582.4	3695.0	2764.2	2019.2	1563.5	1242.7	1076.3	965.4	918.9	924.9
10°	4961.7	4435.5	3155.4	2047.6	1362.6	1010.3	814.0	734.5	697.0	691.0	689.5
12.5°	4982.7	4275.1	2639.7	1520.0	953.4	734.5	659.6	632.6	620.6	620.6	616.1
15°	5005.2	4098.3	2211.0	1130.2	734.5	631.1	596.6	583.1	575.6	575.6	574.1
17.5°	5005.2	3894.4	1810.8	876.9	632.6	580.1	553.1	535.1	529.1	529.1	527.6
20°	4973.7	3657.6	1455.5	706.0	574.1	532.1	505.2	485.7	478.2	475.2	473.7
22.5°	4864.2	3341.3	1158.7	607.1	526.1	490.2	455.7	433.2	427.2	424.2	425.7
25°	4669.4	2984.5	917.4	533.6	482.7	439.2	409.2	392.7	386.7	386.7	388.2
27.5°	4468.5	2611.3	727.0	478.2	430.2	391.2	367.3	356.8	355.3	359.8	361.3
30°	4282.6	2236.5	589.1	433.2	383.7	350.8	334.3	331.3	331.3	332.8	334.3
32.5°	4075.8	1908.2	493.2	394.2	346.3	317.8	308.8	308.8	311.8	311.8	314.8
35°	3945.4	1626.4	433.2	356.8	317.8	293.8	287.8	289.3	293.8	299.8	302.8
37.5°	3874.9	1401.6	394.2	326.8	290.8	274.3	268.3	271.3	281.8	292.3	293.8
40°	3880.9	1232.2	362.8	301.3	269.8	251.8	247.3	256.3	266.8	277.3	278.8
42.5°	3946.9	1106.3	332.8	271.3	251.8	226.3	224.8	233.8	238.3	248.8	250.3
45°	4024.8	1014.8	301.3	239.8	218.9	196.4	197.9	205.4	211.4	227.8	230.8
47.5°	4048.8	951.9	265.3	203.9	179.9	172.4	173.9	178.4	190.4	205.4	206.9
50°	4075.8	912.9	230.8	172.4	152.9	151.4	152.9	155.9	163.4	169.4	167.9
52.5°	4191.2	911.4	202.4	149.9	130.4	133.4	134.9	133.4	127.4	118.4	115.4
54°	4299.1	915.9	188.9	139.4	119.9	124.4	122.9	115.4	100.4	91.4	86.9
55°	4386.1	920.4	181.4	131.9	113.9	115.4	116.9	101.9	82.4	73.5	70.5
57.5°	4557.0	909.9	163.4	115.4	100.4	94.4	92.9	67.5	45.0	39.0	36.0
60°	4471.5	821.5	148.4	98.9	85.4	76.4	63.0	37.5	22.5	16.5	16.5
62.5°	4135.7	697.0	131.9	80.9	70.5	58.5	33.0	21.0	10.5	6.0	4.5
65°	3699.5	586.1	118.4	64.5	55.5	37.5	18.0	13.5	4.5	0.0	0.0
67.5°	2750.7	434.7	100.4	51.0	42.0	24.0	12.0	7.5	1.5	0.0	0.0
70°	1274.1	265.3	85.4	39.0	30.0	18.0	9.0	4.5	0.0	0.0	0.0
72.5°	365.8	166.4	70.5	28.5	21.0	15.0	7.5	3.0	1.5	0.0	0.0
75°	127.4	133.4	52.5	21.0	16.5	10.5	6.0	3.0	1.5	0.0	0.0
77.5°	76.4	107.9	33.0	18.0	13.5	9.0	6.0	3.0	1.5	1.5	0.0
80°	43.5	72.0	21.0	15.0	12.0	7.5	4.5	3.0	1.5	1.5	0.0
82.5°	24.0	34.5	16.5	13.5	10.5	7.5	4.5	3.0	1.5	1.5	1.5
85°	19.5	18.0	13.5	12.0	9.0	6.0	4.5	1.5	0.0	0.0	0.0
87.5°	15.0	12.0	12.0	12.0	9.0	6.0	4.5	1.5	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)