

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: P459067

Luminaire Tested: **GALN-SA5D-735-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459067  
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-SA5D-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA 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: 29568 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

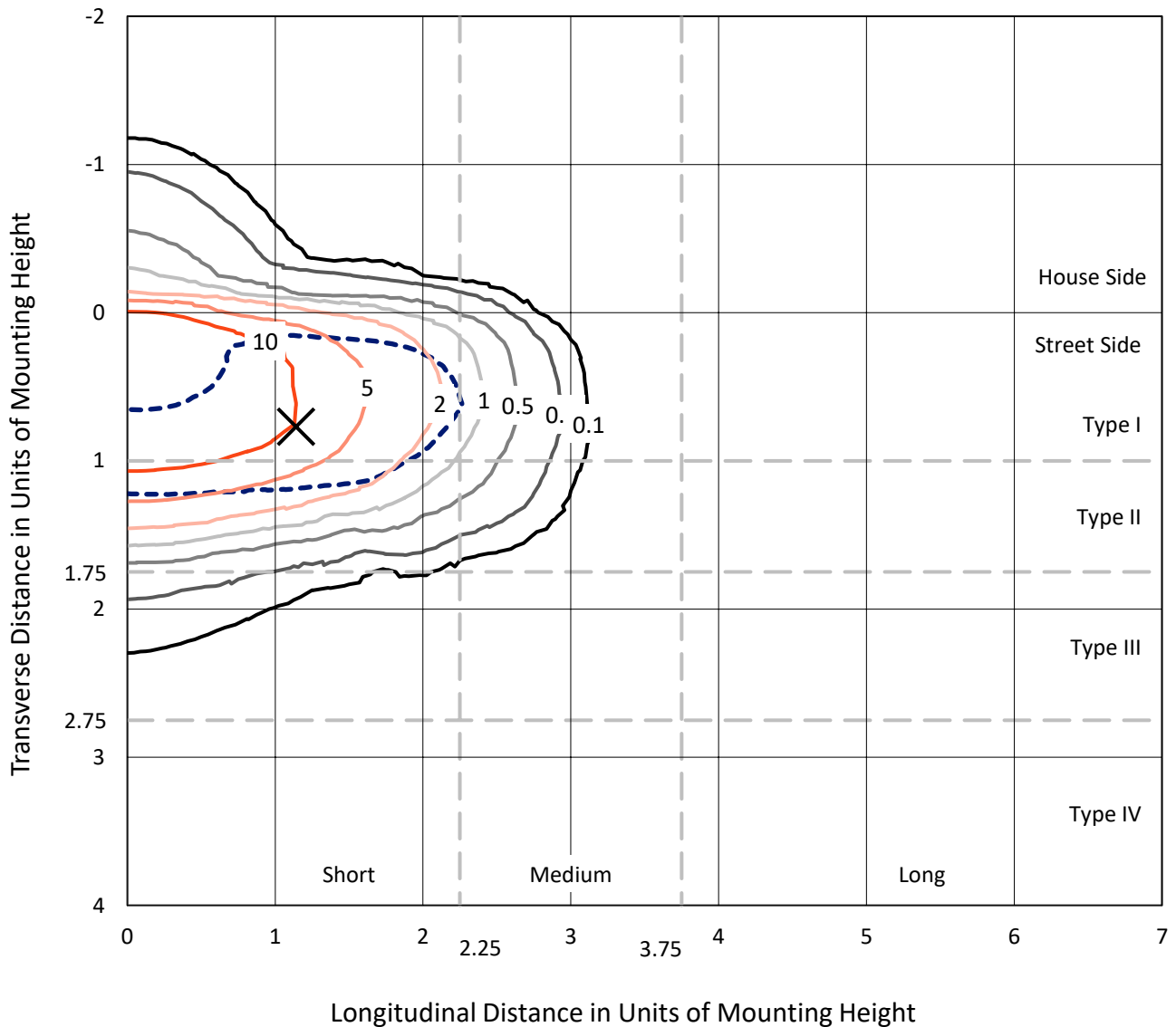
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

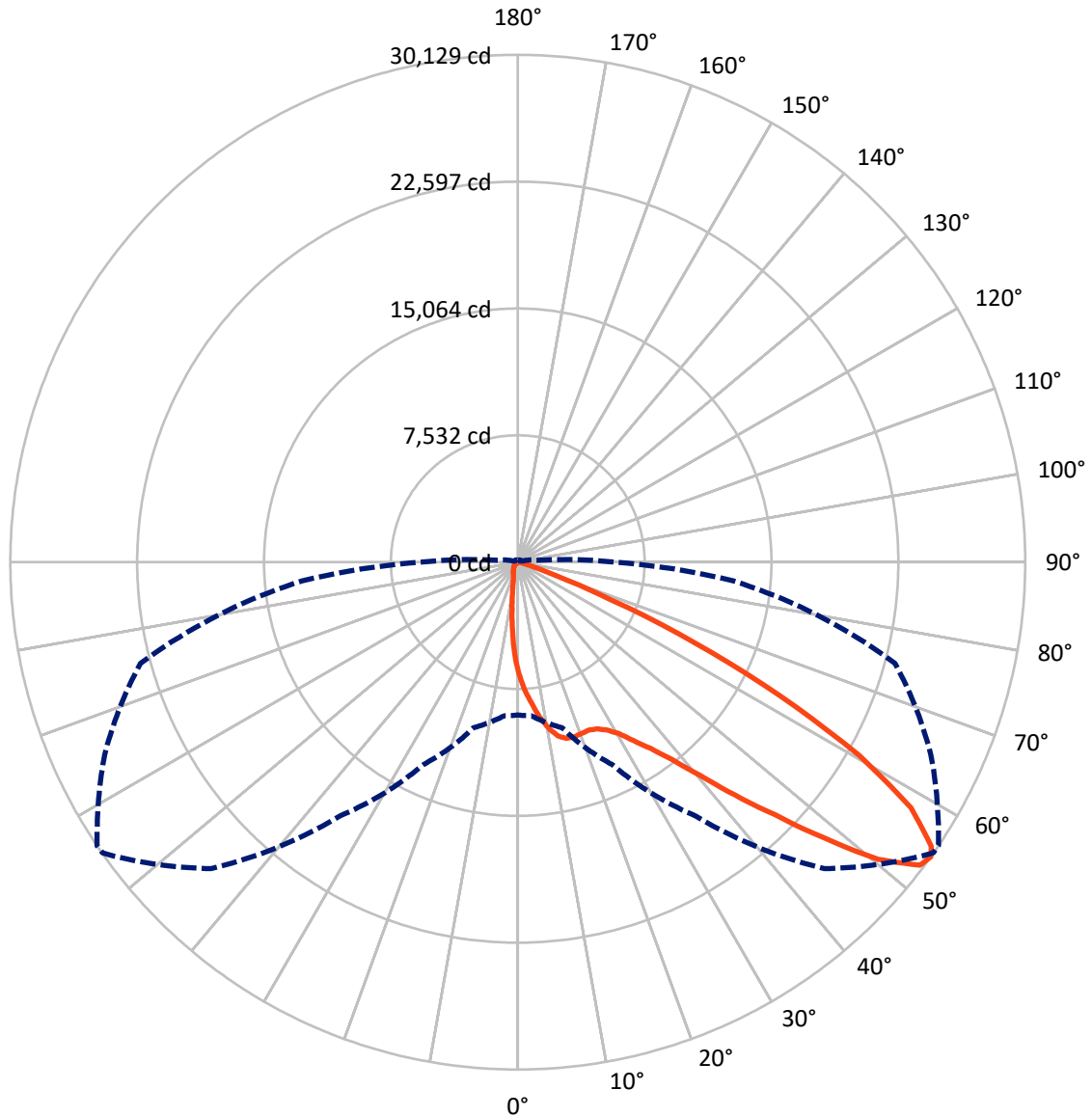
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	1398.2	0.0	1398.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	28169.8	0.0	28169.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	29568.0	0.0	29568.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.5	2.0
10°-20°	1569.3	5.3
20°-30°	2717.8	9.2
30°-40°	4691.4	15.9
40°-50°	7984.9	27.0
50°-60°	7902.1	26.7
60°-70°	3606.7	12.2
70°-80°	463.2	1.6
80°-90°	52.2	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°	29568.0	100.0
0°-180°	29568.0	100.0

**Coefficient of Utilization**



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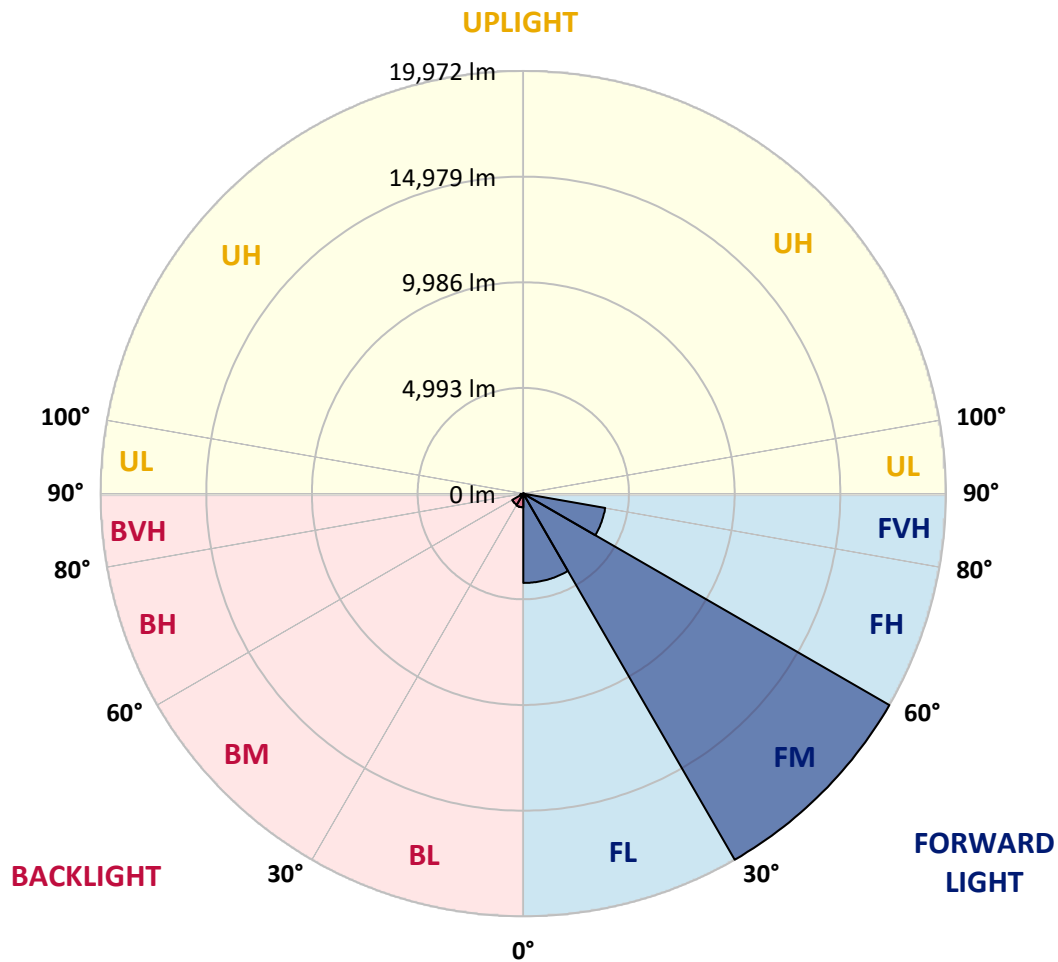
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4220.9	14.3			
FM (30°-60°)	19972.4	67.5			
FH (60°-80°)	3929.8	13.3			G2/5000
FVH (80°-90°)	46.6	0.2			G1/100
BL (0°-30°)	646.6	2.2	B2/1000		
BM (30°-60°)	606.0	2.0	B1/1000		
BH (60°-80°)	140.0	0.5	B1/500		G1/500
BVH (80°-90°)	5.6	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6569.2	6569.2	6569.2	6569.2	6569.2	6569.2	6569.2	6569.2	6569.2	6569.2	6569.2
2.5°	8348.6	8290.7	8211.0	8149.1	8003.5	7794.0	7572.6	7572.6	7359.1	7061.9	6758.7
5°	9629.3	9591.4	9513.6	9354.0	9190.4	8897.2	8452.3	8374.5	7993.5	7454.9	6888.3
7.5°	10150.0	10167.9	10171.9	10130.0	10052.2	9763.0	9322.1	9268.2	8659.8	7937.7	7057.9
10°	9651.3	9739.0	9824.8	9998.4	10243.7	10313.6	10064.2	10008.3	9409.9	8426.4	7241.4
12.5°	8909.2	8957.0	9004.9	9278.2	9771.0	10335.5	10596.8	10594.8	10088.1	8913.2	7474.8
15°	8564.0	8605.9	8609.9	8731.6	9158.5	9980.4	10824.3	10854.2	10750.4	9513.6	7726.2
17.5°	8635.9	8669.8	8641.8	8671.8	8895.2	9589.4	10798.3	10898.1	11287.1	10090.1	7953.6
20°	9104.7	9170.5	9062.8	8979.0	9046.8	9485.7	10710.5	10850.2	11666.1	10652.7	8161.1
22.5°	9946.5	9982.4	9846.8	9617.3	9497.7	9703.1	10686.6	10824.3	11989.3	11113.5	8280.8
25°	10882.1	10870.1	10720.5	10463.2	10211.8	10142.0	10844.2	10967.9	12256.6	11528.4	8316.7
27.5°	11817.7	11853.6	11602.3	11283.1	10981.8	10800.3	11197.3	11289.1	12557.8	12001.2	8360.6
30°	12904.9	12847.1	12599.7	12234.6	11889.5	11636.2	11765.8	11791.8	12972.7	12627.6	8476.3
32.5°	14319.3	14159.7	13882.4	13244.0	12996.7	12567.8	12599.7	12631.6	13477.4	13248.0	8615.9
35°	16238.4	16230.4	15687.8	14828.0	14225.5	13692.9	13553.3	13579.2	14241.5	14169.7	8925.1
37.5°	18548.5	18580.4	17962.0	17096.2	15987.0	15141.2	14853.9	14857.9	15402.5	15442.4	9395.9
40°	20429.6	20513.4	20144.4	19559.9	18464.7	17142.1	16659.3	16615.4	17034.3	16984.5	10068.2
42.5°	21239.6	21317.4	21455.0	21658.5	21056.0	19964.8	18825.7	18885.6	19013.3	18664.2	10822.3
45°	20842.6	20966.3	21506.9	22763.6	23330.2	22963.1	21604.6	21395.2	20854.5	20489.5	11580.3
47.5°	19188.8	19490.0	20393.7	22486.4	24469.3	25710.1	24740.6	24463.3	22697.8	21822.1	12063.1
50°	16469.8	16487.7	17746.5	20421.6	23878.8	27443.6	27942.4	27734.9	24415.4	22570.1	12306.5
52.5°	11939.4	12332.4	13485.4	16583.5	21321.3	27180.3	29983.1	29897.4	26186.9	22953.2	12657.6
54°	9076.7	9152.5	10177.9	13252.0	18382.9	25734.0	30108.8	30128.8	27066.6	23184.6	12865.0
55°	7440.9	7259.4	8336.6	11289.1	16378.0	24455.3	29697.9	29793.6	27461.6	23304.3	13018.6
57.5°	3527.0	3529.0	4352.8	5954.7	10257.7	18989.3	27186.3	27525.4	27505.5	23509.7	13491.4
60°	1785.4	1797.4	1978.9	2749.0	5067.0	12623.6	22478.4	23286.3	25388.9	23539.7	13647.0
62.5°	1248.8	1234.8	1204.9	1322.6	2132.5	6415.6	16735.1	17437.3	21570.7	22400.6	13152.3
65°	1069.3	1039.3	955.6	937.6	1077.2	2555.4	10423.3	11568.3	16469.8	19396.3	11743.9
67.5°	913.7	901.7	825.9	780.0	762.0	1113.1	5378.2	5980.7	11257.1	13942.3	8895.2
70°	776.0	770.0	724.1	666.3	616.4	666.3	1994.9	2471.7	6273.9	7506.8	4197.2
72.5°	630.4	636.4	644.3	570.5	518.7	472.8	851.8	991.5	2625.3	2683.1	1468.2
75°	552.6	546.6	546.6	496.7	432.9	351.1	468.8	504.7	803.9	746.1	341.1
77.5°	389.0	375.0	438.9	409.0	361.1	249.4	267.3	283.3	333.1	285.3	159.6
80°	269.3	269.3	281.3	367.1	325.2	181.5	163.6	175.5	197.5	169.6	91.8
82.5°	151.6	155.6	183.5	195.5	189.5	121.7	107.7	109.7	131.7	115.7	57.9
85°	18.0	29.9	105.7	103.7	77.8	53.9	59.8	61.8	81.8	71.8	33.9
87.5°	2.0	4.0	21.9	27.9	19.9	21.9	21.9	21.9	27.9	31.9	23.9
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°	6569.2	6569.2	6569.2	6569.2	6569.2	6569.2	6569.2	6569.2	6569.2	6569.2	6569.2
2.5°	6595.1	6443.5	6082.4	5663.5	5396.2	4961.3	4594.2	4328.9	4263.1	4135.4	4173.3
5°	6587.1	6271.9	5535.8	4757.8	3927.9	3309.5	2848.7	2485.6	2326.0	2220.3	2146.5
7.5°	6591.1	6098.4	4917.4	3678.6	2687.1	2080.7	1653.8	1432.3	1284.7	1222.9	1230.8
10°	6603.1	5902.9	4199.2	2725.0	1813.4	1344.6	1083.2	977.5	927.6	919.6	917.6
12.5°	6631.0	5689.4	3513.0	2022.8	1268.7	977.5	877.7	841.8	825.9	825.9	819.9
15°	6660.9	5454.0	2942.5	1504.1	977.5	839.8	794.0	776.0	766.0	766.0	764.0
17.5°	6660.9	5182.7	2409.8	1167.0	841.8	772.0	736.1	712.2	704.2	704.2	702.2
20°	6619.0	4867.5	1937.0	939.6	764.0	708.2	672.3	646.3	636.4	632.4	630.4
22.5°	6473.4	4446.6	1542.0	807.9	700.2	652.3	606.4	576.5	568.5	564.6	566.5
25°	6214.1	3971.8	1220.9	710.2	642.4	584.5	544.6	522.7	514.7	514.7	516.7
27.5°	5946.8	3475.1	967.5	636.4	572.5	520.7	488.7	474.8	472.8	478.8	480.8
30°	5699.4	2976.4	784.0	576.5	510.7	466.8	444.9	440.9	440.9	442.9	444.9
32.5°	5424.1	2539.5	656.3	524.7	460.8	422.9	410.9	410.9	414.9	414.9	418.9
35°	5250.5	2164.5	576.5	474.8	422.9	391.0	383.0	385.0	391.0	399.0	403.0
37.5°	5156.8	1865.2	524.7	434.9	387.0	365.1	357.1	361.1	375.0	389.0	391.0
40°	5164.8	1639.8	482.8	401.0	359.1	335.1	329.2	341.1	355.1	369.1	371.0
42.5°	5252.5	1472.2	442.9	361.1	335.1	301.2	299.2	311.2	317.2	331.2	333.1
45°	5356.3	1350.5	401.0	319.2	291.3	261.3	263.3	273.3	281.3	303.2	307.2
47.5°	5388.2	1266.8	353.1	271.3	239.4	229.4	231.4	237.4	253.4	273.3	275.3
50°	5424.1	1214.9	307.2	229.4	203.5	201.5	203.5	207.5	217.4	225.4	223.4
52.5°	5577.7	1212.9	269.3	199.5	173.6	177.5	179.5	177.5	169.6	157.6	153.6
54°	5721.3	1218.9	251.4	185.5	159.6	165.6	163.6	153.6	133.7	121.7	115.7
55°	5837.0	1224.9	241.4	175.5	151.6	153.6	155.6	135.7	109.7	97.7	93.8
57.5°	6064.5	1210.9	217.4	153.6	133.7	125.7	123.7	89.8	59.8	51.9	47.9
60°	5950.7	1093.2	197.5	131.7	113.7	101.7	83.8	49.9	29.9	21.9	21.9
62.5°	5503.9	927.6	175.5	107.7	93.8	77.8	43.9	27.9	14.0	8.0	6.0
65°	4923.4	780.0	157.6	85.8	73.8	49.9	23.9	18.0	6.0	0.0	0.0
67.5°	3660.6	578.5	133.7	67.8	55.9	31.9	16.0	10.0	2.0	0.0	0.0
70°	1695.7	353.1	113.7	51.9	39.9	23.9	12.0	6.0	0.0	0.0	0.0
72.5°	486.8	221.4	93.8	37.9	27.9	19.9	10.0	4.0	2.0	0.0	0.0
75°	169.6	177.5	69.8	27.9	21.9	14.0	8.0	4.0	2.0	0.0	0.0
77.5°	101.7	143.6	43.9	23.9	18.0	12.0	8.0	4.0	2.0	2.0	0.0
80°	57.9	95.8	27.9	19.9	16.0	10.0	6.0	4.0	2.0	2.0	0.0
82.5°	31.9	45.9	21.9	18.0	14.0	10.0	6.0	4.0	2.0	2.0	2.0
85°	25.9	23.9	18.0	16.0	12.0	8.0	6.0	2.0	0.0	0.0	0.0
87.5°	19.9	16.0	16.0	16.0	12.0	8.0	6.0	2.0	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)