

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: P458929

Luminaire Tested: **GALN-SA4C-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21311 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

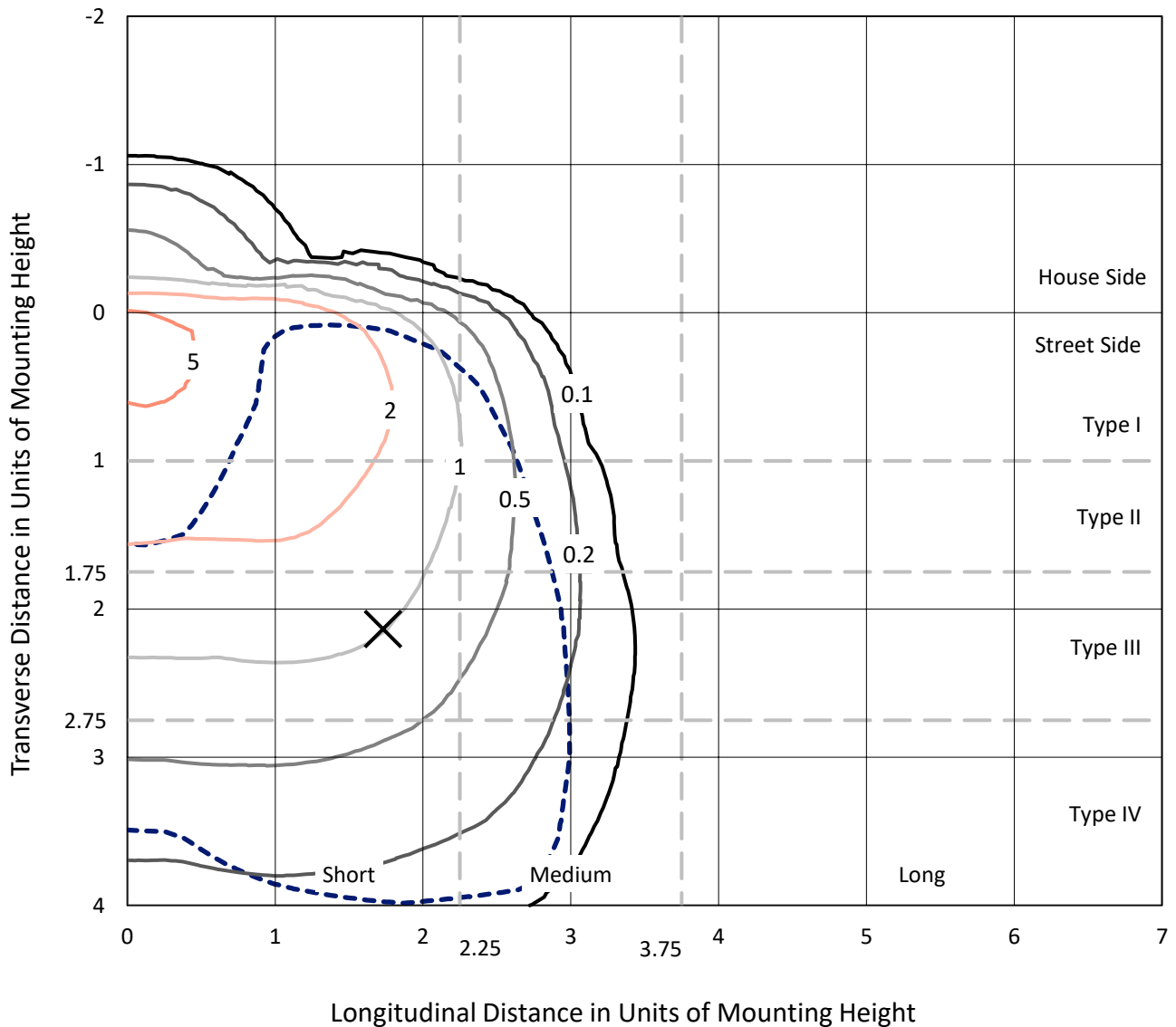
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

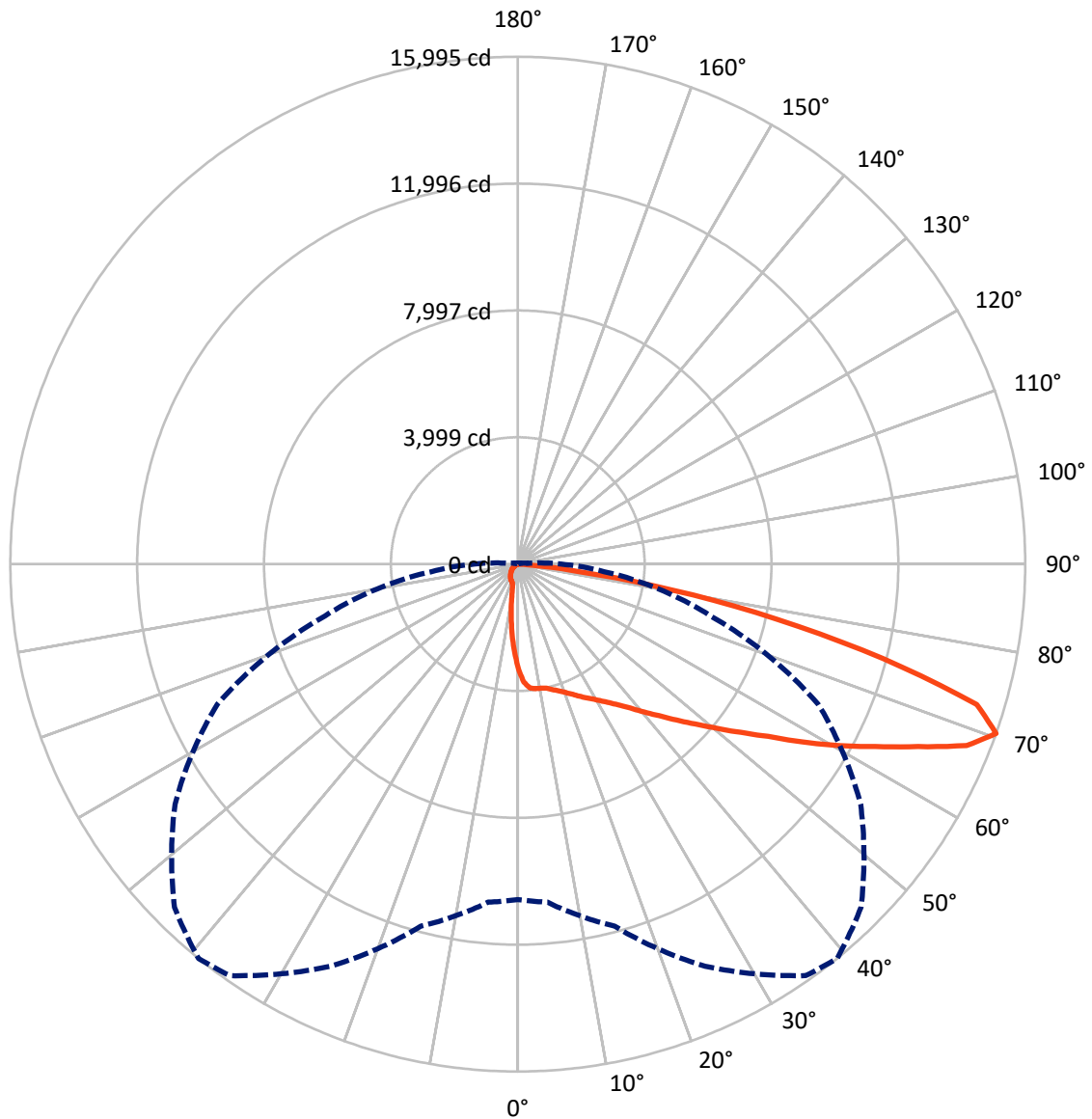
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1389.6	0.0	1389.6
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	19921.4	0.0	19921.4
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	21311.0	0.0	21311.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.6	1.3
10°-20°	737.0	3.5
20°-30°	1234.8	5.8
30°-40°	1915.0	9.0
40°-50°	3034.6	14.2
50°-60°	4448.3	20.9
60°-70°	5701.7	26.8
70°-80°	3582.8	16.8
80°-90°	373.2	1.8
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°	21311.0	100.0
0°-180°	21311.0	100.0

**Coefficient of Utilization**



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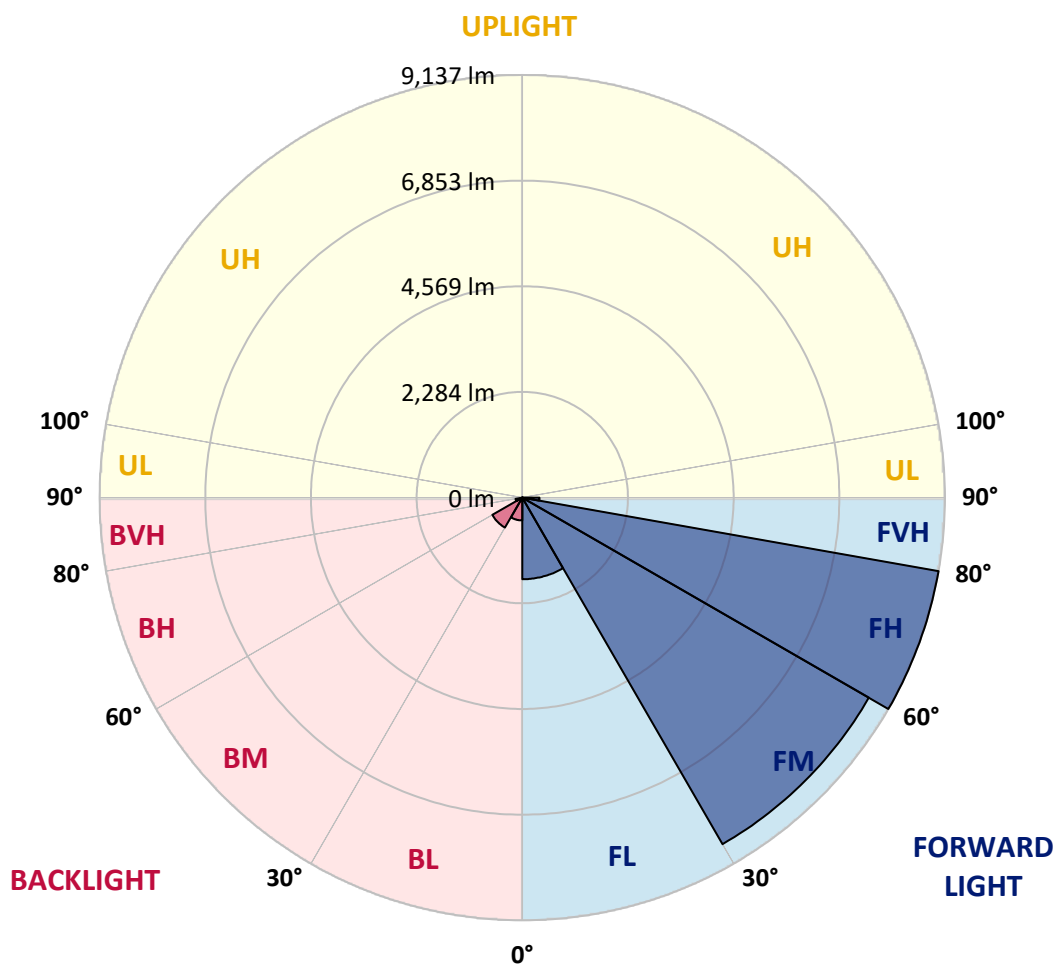
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1763.4	8.3			
FM (30°-60°)	8650.1	40.6			
FH (60°-80°)	9137.5	42.9			G4/12000
FVH (80°-90°)	370.5	1.7			G3/500
BL (0°-30°)	492.0	2.3	B1/500		
BM (30°-60°)	747.8	3.5	B1/1000		
BH (60°-80°)	147.0	0.7	B1/500		G1/500
BVH (80°-90°)	2.7	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2
2.5°	3842.2	3829.3	3812.1	3792.1	3734.8	3724.8	3690.4	3617.4	3530.0	3458.4	3359.6
5°	4024.1	4031.3	4018.4	3982.6	3941.0	3916.7	3873.7	3760.6	3647.5	3502.8	3341.0
7.5°	4065.6	4079.9	4064.2	4029.8	3989.7	3963.9	3929.6	3832.2	3700.4	3535.8	3313.8
10°	4061.3	4078.5	4068.5	4037.0	4004.0	3979.7	3942.5	3865.1	3759.2	3585.9	3322.4
12.5°	4054.2	4077.1	4075.6	4059.9	4032.7	4014.1	3991.2	3922.4	3823.6	3658.9	3369.6
15°	4034.1	4062.8	4088.5	4101.4	4102.9	4102.9	4074.2	4001.2	3906.7	3754.9	3431.2
17.5°	4042.7	4075.6	4140.1	4177.3	4203.1	4200.2	4170.2	4091.4	3986.9	3853.7	3495.7
20°	4095.7	4140.1	4230.3	4304.8	4330.6	4322.0	4281.9	4190.2	4071.4	3938.2	3558.7
22.5°	4226.0	4266.1	4379.2	4466.6	4485.2	4462.3	4405.0	4280.4	4173.0	4029.8	3634.6
25°	4420.8	4468.0	4572.6	4638.4	4638.4	4625.6	4545.4	4399.3	4287.6	4157.3	3733.4
27.5°	4657.1	4697.2	4800.3	4859.0	4824.6	4787.4	4707.2	4531.0	4423.6	4317.7	3852.2
30°	4896.2	4922.0	5030.8	5056.6	5020.8	4973.5	4887.6	4711.5	4617.0	4535.3	4024.1
32.5°	5122.5	5178.3	5268.6	5262.8	5214.1	5191.2	5112.5	4924.9	4871.9	4863.3	4264.7
35°	5348.7	5391.7	5471.9	5492.0	5449.0	5444.7	5387.4	5248.5	5249.9	5305.8	4639.9
37.5°	5543.5	5582.2	5676.7	5721.1	5729.7	5751.2	5728.2	5636.6	5766.9	5920.1	5136.8
40°	5706.8	5761.2	5881.5	5958.8	6047.6	6126.4	6130.7	6150.7	6412.8	6676.3	5785.5
42.5°	5834.2	5910.1	6084.8	6228.0	6431.4	6531.6	6611.8	6722.1	7163.2	7557.0	6550.2
45°	6000.3	6087.7	6305.4	6530.2	6848.1	7012.8	7124.5	7419.5	8045.3	8582.3	7335.0
47.5°	6275.3	6321.1	6543.1	6871.0	7289.2	7524.1	7741.7	8188.5	8991.9	9473.1	7988.0
50°	6629.0	6659.1	6826.6	7282.0	7823.4	8132.7	8529.4	9054.9	9974.3	10212.0	8357.5
52.5°	7020.0	7030.0	7156.0	7734.6	8422.0	8811.5	9255.4	9904.1	10774.8	10739.0	8602.4
55°	7473.9	7459.6	7567.0	8225.8	9130.8	9576.2	10093.2	10773.4	11469.4	11112.8	8742.7
57.5°	7993.8	7955.1	8059.6	8877.3	10038.8	10571.5	11097.0	11523.8	12007.8	11426.4	8810.0
60°	8538.0	8460.6	8585.2	9609.1	11108.5	11614.0	12050.8	12165.4	12574.9	11675.6	8694.0
62.5°	8971.9	8973.3	9205.3	10388.2	12208.3	12650.8	12882.8	12985.9	13063.3	11621.2	8084.0
65°	9649.2	9672.1	10043.0	11469.4	13481.4	13865.2	14024.2	13689.1	13084.7	10945.2	7167.5
67.5°	10348.1	10421.1	11099.9	12958.7	14952.2	15261.5	15056.7	13825.1	12500.5	9402.9	5434.7
70°	10575.8	10696.1	11814.5	13984.1	15834.3	15994.7	15301.6	13190.7	10449.8	6286.8	2735.2
72.5°	9690.8	9885.5	11403.5	13610.3	15271.5	15132.6	13690.5	11062.7	6643.3	2387.2	834.9
75°	6833.8	6919.7	9477.4	11290.4	12282.8	11889.0	10414.0	7131.7	2732.4	670.2	286.4
77.5°	3528.6	3487.1	5636.6	7491.1	8759.9	8351.8	6819.5	3691.9	1035.4	279.3	177.6
80°	1824.4	1854.5	2438.8	3925.3	5347.3	4920.6	3636.0	1711.3	551.3	154.7	136.0
82.5°	1022.5	959.5	1402.0	1714.2	2500.4	1960.5	1394.8	1211.5	240.6	93.1	128.9
85°	186.2	194.8	769.0	926.5	867.8	551.3	449.7	809.1	70.2	51.6	90.2
87.5°	2.9	2.9	148.9	266.4	169.0	77.3	141.8	116.0	14.3	20.0	15.8
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°	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2	3325.2
2.5°	3309.5	3255.1	3153.4	3053.2	2925.7	2821.2	2751.0	2678.0	2603.5	2609.2	2626.4
5°	3252.2	3157.7	2957.2	2745.3	2541.9	2358.6	2178.2	2016.3	1950.5	1890.3	1893.2
7.5°	3194.9	3061.7	2768.2	2435.9	2128.0	1815.9	1589.6	1403.4	1304.6	1230.1	1208.7
10°	3169.2	2993.0	2594.9	2138.1	1701.3	1360.5	1069.7	918.0	800.5	763.3	773.3
12.5°	3180.6	2958.6	2438.8	1868.8	1349.0	948.0	744.7	667.3	641.6	637.3	634.4
15°	3202.1	2934.3	2285.6	1571.0	991.0	704.6	625.8	611.5	608.6	605.8	607.2
17.5°	3230.7	2912.8	2122.3	1291.7	760.4	615.8	592.9	585.7	584.3	584.3	584.3
20°	3259.4	2888.5	1940.4	1042.5	634.4	581.4	567.1	562.8	561.4	561.4	559.9
22.5°	3292.3	2867.0	1755.7	819.1	584.3	557.1	544.2	541.3	539.9	538.5	538.5
25°	3339.6	2839.8	1559.5	670.2	552.8	534.2	521.3	518.4	517.0	511.2	512.7
27.5°	3402.6	2819.7	1357.6	578.6	524.1	505.5	496.9	492.6	489.8	485.5	486.9
30°	3488.5	2802.5	1142.8	528.4	491.2	475.4	466.9	464.0	461.1	456.8	456.8
32.5°	3637.4	2809.7	916.5	488.3	461.1	442.5	433.9	431.1	428.2	423.9	423.9
35°	3860.8	2851.2	733.2	454.0	425.3	406.7	398.1	398.1	393.8	388.1	386.7
37.5°	4226.0	2957.2	588.6	421.0	391.0	373.8	363.7	360.9	356.6	348.0	346.6
40°	4657.1	3121.9	495.5	388.1	359.4	342.3	333.7	325.1	313.6	305.0	303.6
42.5°	5198.4	3290.9	429.6	355.2	329.4	313.6	303.6	289.3	272.1	260.6	259.2
45°	5762.6	3445.5	385.2	325.1	300.7	287.8	276.4	253.5	232.0	217.7	216.2
47.5°	6183.6	3474.2	349.4	296.4	276.4	263.5	247.7	219.1	190.5	177.6	173.3
50°	6382.7	3335.3	312.2	267.8	252.0	237.7	217.7	184.7	153.2	137.5	134.6
52.5°	6452.9	3094.7	282.1	242.0	227.7	210.5	186.2	148.9	120.3	104.5	103.1
55°	6424.2	2791.1	254.9	217.7	199.1	179.0	154.7	118.9	88.8	75.9	73.0
57.5°	6273.9	2404.4	227.7	193.3	170.4	150.4	123.2	88.8	60.1	48.7	47.3
60°	5868.6	1877.4	200.5	166.1	144.6	123.2	97.4	63.0	37.2	27.2	27.2
62.5°	5184.1	1393.4	174.7	138.9	121.7	98.8	68.7	40.1	20.0	14.3	12.9
65°	4332.0	1028.2	146.1	117.4	101.7	77.3	48.7	24.3	10.0	4.3	2.9
67.5°	3023.1	634.4	121.7	95.9	83.1	55.9	30.1	10.0	4.3	0.0	0.0
70°	1373.3	302.2	93.1	73.0	63.0	40.1	15.8	5.7	2.9	0.0	0.0
72.5°	426.8	159.0	65.9	53.0	43.0	25.8	8.6	4.3	2.9	0.0	0.0
75°	197.6	101.7	41.5	28.6	24.3	12.9	5.7	2.9	1.4	0.0	0.0
77.5°	147.5	78.8	24.3	15.8	12.9	8.6	4.3	2.9	1.4	0.0	0.0
80°	128.9	40.1	14.3	10.0	7.2	5.7	2.9	1.4	0.0	0.0	0.0
82.5°	116.0	20.0	8.6	5.7	4.3	2.9	1.4	1.4	0.0	0.0	0.0
85°	63.0	11.5	5.7	4.3	2.9	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	11.5	5.7	4.3	2.9	2.9	1.4	1.4	1.4	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)