

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: P455826

Luminaire Tested: **GALN-SA7A-740-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455826  
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-SA7A-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA 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: 26201 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

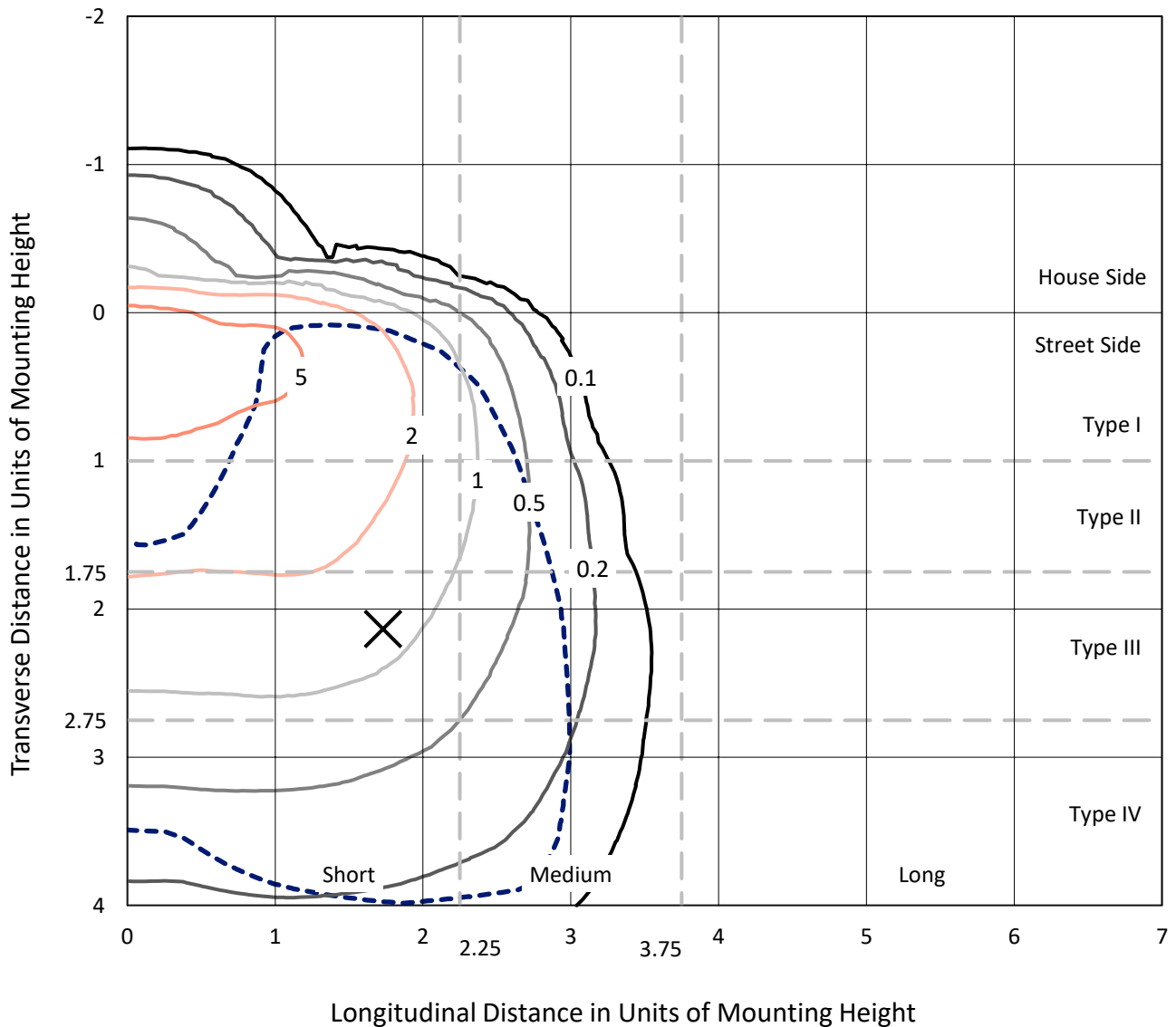
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

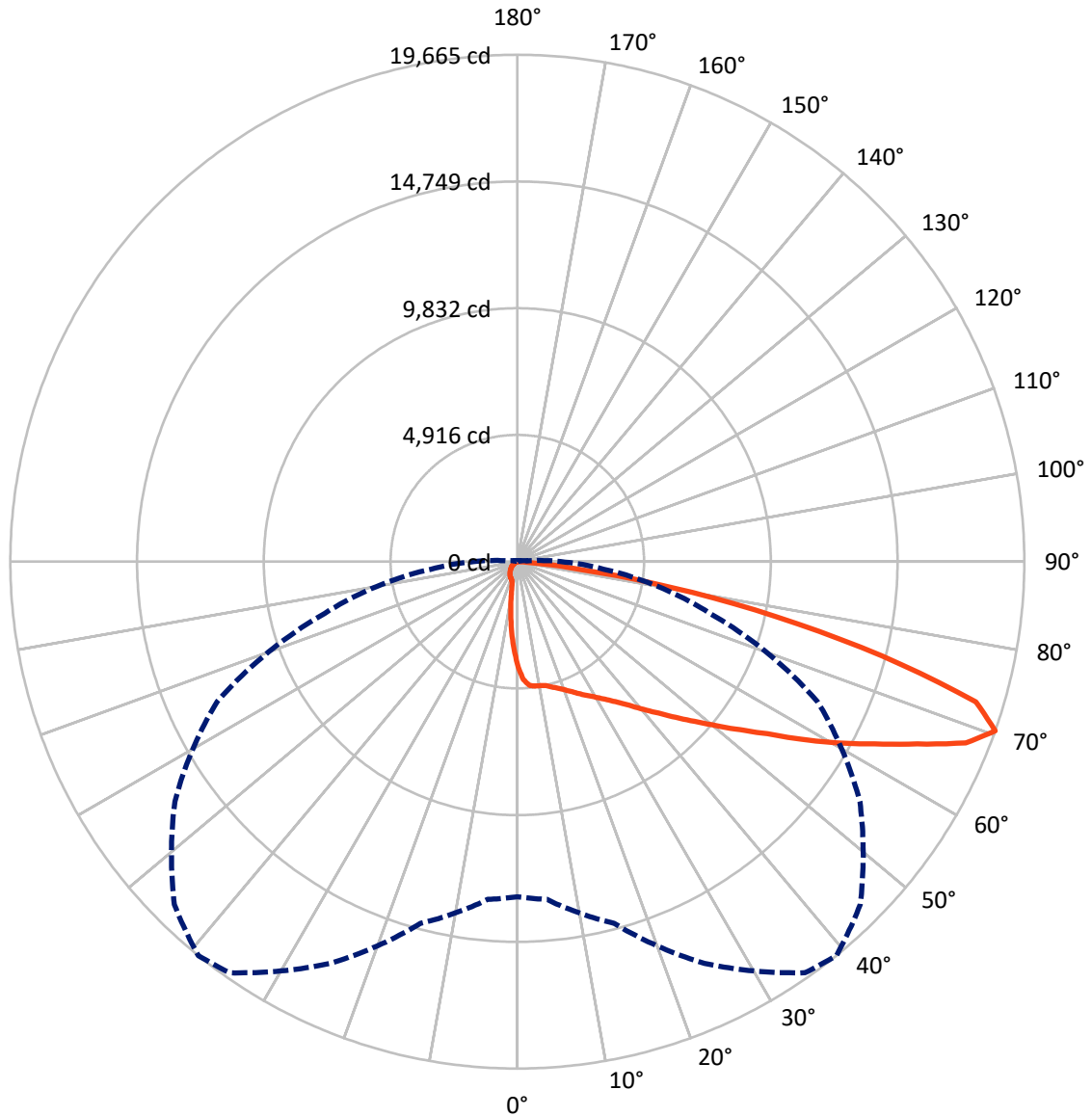
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type 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	1708.4	0.0	1708.4
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	24492.6	0.0	24492.6
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	26201.0	0.0	26201.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.7	1.3
10°-20°	906.2	3.5
20°-30°	1518.1	5.8
30°-40°	2354.4	9.0
40°-50°	3731.0	14.2
50°-60°	5469.0	20.9
60°-70°	7010.0	26.8
70°-80°	4404.8	16.8
80°-90°	458.9	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°	26201.0	100.0
0°-180°	26201.0	100.0

**Coefficient of Utilization**



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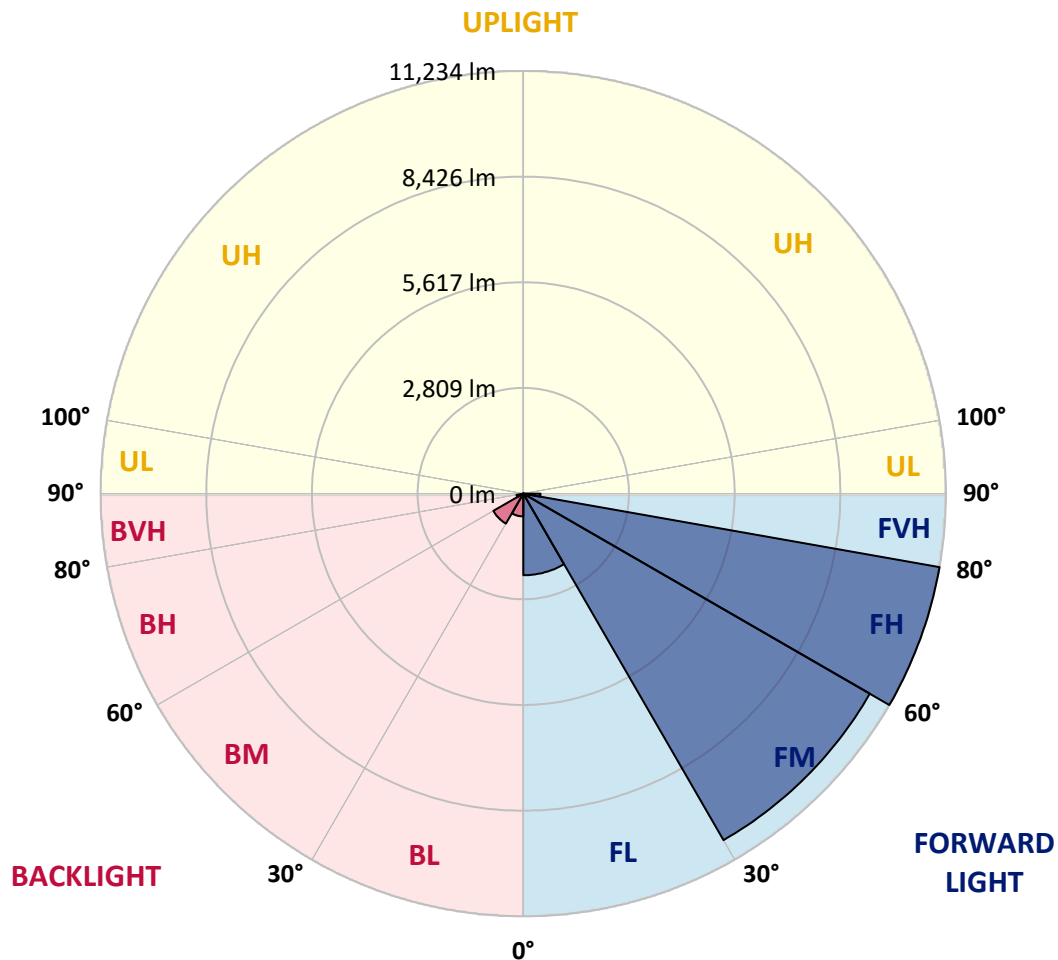
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2168.0	8.3			
FM	(30°-60°)	10634.9	40.6			
FH	(60°-80°)	11234.1	42.9			G4/12000
FVH	(80°-90°)	455.5	1.7			G3/500
BL	(0°-30°)	604.9	2.3	B2/1000		
BM	(30°-60°)	919.4	3.5	B1/1000		
BH	(60°-80°)	180.7	0.7	B1/500		G1/500
BVH	(80°-90°)	3.4	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4088.3	4088.3	4088.3	4088.3	4088.3	4088.3	4088.3	4088.3	4088.3	4088.3	4088.3
2.5°	4723.9	4708.0	4686.9	4662.2	4591.8	4579.5	4537.2	4447.4	4340.0	4252.0	4130.5
5°	4947.5	4956.3	4940.4	4896.4	4845.3	4815.4	4762.6	4623.5	4484.4	4306.6	4107.6
7.5°	4998.5	5016.1	4996.8	4954.5	4905.2	4873.5	4831.3	4711.5	4549.5	4347.1	4074.2
10°	4993.2	5014.4	5002.0	4963.3	4922.8	4892.9	4847.1	4752.0	4621.7	4408.7	4084.7
12.5°	4984.4	5012.6	5010.8	4991.5	4958.0	4935.1	4907.0	4822.5	4701.0	4498.5	4142.8
15°	4959.8	4995.0	5026.7	5042.5	5044.3	5044.3	5009.1	4919.3	4803.1	4616.5	4218.5
17.5°	4970.3	5010.8	5090.1	5135.8	5167.5	5164.0	5127.0	5030.2	4901.7	4737.9	4297.8
20°	5035.5	5090.1	5201.0	5292.5	5324.2	5313.7	5264.4	5151.7	5005.6	4841.8	4375.2
22.5°	5195.7	5245.0	5384.1	5491.5	5514.4	5486.2	5415.8	5262.6	5130.6	4954.5	4468.6
25°	5435.2	5493.3	5621.8	5702.8	5702.8	5686.9	5588.3	5408.8	5271.4	5111.2	4590.0
27.5°	5725.7	5775.0	5901.7	5973.9	5931.7	5885.9	5787.3	5570.7	5438.7	5308.4	4736.2
30°	6019.7	6051.4	6185.2	6216.9	6172.9	6114.8	6009.1	5792.6	5676.4	5576.0	4947.5
32.5°	6297.9	6366.5	6477.5	6470.4	6410.6	6382.4	6285.6	6054.9	5989.8	5979.2	5243.2
35°	6576.1	6628.9	6727.5	6752.1	6699.3	6694.0	6623.6	6452.8	6454.6	6523.2	5704.5
37.5°	6815.5	6863.1	6979.3	7033.8	7044.4	7070.8	7042.6	6930.0	7090.2	7278.6	6315.5
40°	7016.2	7083.1	7231.0	7326.1	7435.3	7532.1	7537.4	7562.0	7884.2	8208.2	7113.1
42.5°	7172.9	7266.2	7481.0	7657.1	7907.1	8030.4	8129.0	8264.5	8806.8	9291.0	8053.3
45°	7377.2	7484.6	7752.2	8028.6	8419.5	8622.0	8759.3	9122.0	9891.4	10551.6	9018.1
47.5°	7715.2	7771.6	8044.5	8447.7	8961.8	9250.5	9518.1	10067.5	11055.2	11646.8	9821.0
50°	8150.1	8187.1	8393.1	8953.0	9618.5	9998.8	10486.5	11132.7	12263.0	12555.3	10275.2
52.5°	8630.8	8643.1	8798.0	9509.3	10354.4	10833.3	11379.2	12176.7	13247.2	13203.2	10576.3
55°	9188.9	9171.3	9303.3	10113.2	11226.0	11773.5	12409.1	13245.5	14101.1	13662.7	10748.8
57.5°	9828.0	9780.5	9909.0	10914.3	12342.2	12997.2	13643.4	14168.0	14763.1	14048.3	10831.6
60°	10497.1	10402.0	10555.2	11814.0	13657.4	14279.0	14816.0	14956.8	15460.4	14354.7	10689.0
62.5°	11030.5	11032.3	11317.5	12771.8	15009.6	15553.7	15838.9	15965.7	16060.7	14287.8	9938.9
65°	11863.3	11891.5	12347.5	14101.1	16574.9	17046.7	17242.2	16830.2	16087.2	13456.7	8812.1
67.5°	12722.5	12812.3	13646.9	15932.2	18383.1	18763.4	18511.6	16997.4	15368.8	11560.5	6681.7
70°	13002.5	13150.4	14525.5	17192.9	19467.6	19664.8	18812.7	16217.4	12847.5	7729.3	3362.9
72.5°	11914.4	12153.8	14020.1	16733.3	18775.7	18604.9	16831.9	13601.1	8167.7	2935.0	1026.5
75°	8401.9	8507.5	11652.1	13881.1	15101.2	14617.0	12803.5	8768.1	3359.3	824.0	352.1
77.5°	4338.3	4287.2	6930.0	9210.0	10770.0	10268.2	8384.3	4539.0	1273.0	343.3	218.3
80°	2243.1	2280.1	2998.4	4826.0	6574.3	6049.6	4470.3	2104.0	677.9	190.2	167.3
82.5°	1257.1	1179.6	1723.7	2107.5	3074.1	2410.3	1714.9	1489.5	295.8	114.4	158.5
85°	228.9	239.4	945.5	1139.1	1067.0	677.9	552.8	994.8	86.3	63.4	110.9
87.5°	3.5	3.5	183.1	327.5	207.8	95.1	174.3	142.6	17.6	24.6	19.4
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°	4088.3	4088.3	4088.3	4088.3	4088.3	4088.3	4088.3	4088.3	4088.3	4088.3	4088.3
2.5°	4068.9	4002.0	3877.0	3753.7	3597.0	3468.5	3382.2	3292.4	3200.9	3207.9	3229.1
5°	3998.5	3882.3	3635.8	3375.2	3125.2	2899.8	2678.0	2479.0	2398.0	2324.1	2327.6
7.5°	3928.0	3764.3	3403.4	2994.9	2616.3	2232.5	1954.3	1725.4	1604.0	1512.4	1486.0
10°	3896.3	3679.8	3190.3	2628.7	2091.7	1672.6	1315.2	1128.6	984.2	938.4	950.8
12.5°	3910.4	3637.5	2998.4	2297.7	1658.5	1165.6	915.5	820.5	788.8	783.5	780.0
15°	3936.8	3607.6	2810.0	1931.4	1218.4	866.2	769.4	751.8	748.3	744.8	746.5
17.5°	3972.1	3581.2	2609.3	1588.1	934.9	757.1	728.9	720.1	718.3	718.3	718.3
20°	4007.3	3551.3	2385.7	1281.8	780.0	714.8	697.2	691.9	690.2	690.2	688.4
22.5°	4047.8	3524.8	2158.6	1007.1	718.3	684.9	669.1	665.5	663.8	662.0	662.0
25°	4105.9	3491.4	1917.4	824.0	679.6	656.7	640.9	637.4	635.6	628.6	630.3
27.5°	4183.3	3466.7	1669.1	711.3	644.4	621.5	610.9	605.7	602.1	596.9	598.6
30°	4289.0	3445.6	1405.0	649.7	603.9	584.5	574.0	570.5	566.9	561.7	561.7
32.5°	4472.1	3454.4	1126.8	600.4	566.9	544.0	533.5	530.0	526.4	521.2	521.2
35°	4746.7	3505.5	901.5	558.1	522.9	500.0	489.5	489.5	484.2	477.1	475.4
37.5°	5195.7	3635.8	723.6	517.6	480.7	459.5	447.2	443.7	438.4	427.8	426.1
40°	5725.7	3838.2	609.2	477.1	441.9	420.8	410.2	399.7	385.6	375.0	373.3
42.5°	6391.2	4046.0	528.2	436.6	405.0	385.6	373.3	355.7	334.5	320.4	318.7
45°	7084.9	4236.2	473.6	399.7	369.7	353.9	339.8	311.6	285.2	267.6	265.9
47.5°	7602.5	4271.4	429.6	364.5	339.8	324.0	304.6	269.4	234.2	218.3	213.0
50°	7847.3	4100.6	383.8	329.2	309.9	292.3	267.6	227.1	188.4	169.0	165.5
52.5°	7933.5	3804.8	346.9	297.6	279.9	258.8	228.9	183.1	147.9	128.5	126.8
55°	7898.3	3431.5	313.4	267.6	244.7	220.1	190.2	146.1	109.2	93.3	89.8
57.5°	7713.5	2956.1	279.9	237.7	209.5	184.9	151.4	109.2	73.9	59.9	58.1
60°	7215.2	2308.2	246.5	204.2	177.8	151.4	119.7	77.5	45.8	33.5	33.5
62.5°	6373.6	1713.1	214.8	170.8	149.7	121.5	84.5	49.3	24.6	17.6	15.8
65°	5326.0	1264.2	179.6	144.4	125.0	95.1	59.9	29.9	12.3	5.3	3.5
67.5°	3716.8	780.0	149.7	118.0	102.1	68.7	37.0	12.3	5.3	0.0	0.0
70°	1688.5	371.5	114.4	89.8	77.5	49.3	19.4	7.0	3.5	0.0	0.0
72.5°	524.7	195.4	81.0	65.1	52.8	31.7	10.6	5.3	3.5	0.0	0.0
75°	243.0	125.0	51.1	35.2	29.9	15.8	7.0	3.5	1.8	0.0	0.0
77.5°	181.3	96.8	29.9	19.4	15.8	10.6	5.3	3.5	1.8	0.0	0.0
80°	158.5	49.3	17.6	12.3	8.8	7.0	3.5	1.8	0.0	0.0	0.0
82.5°	142.6	24.6	10.6	7.0	5.3	3.5	1.8	1.8	0.0	0.0	0.0
85°	77.5	14.1	7.0	5.3	3.5	1.8	1.8	0.0	0.0	0.0	0.0
87.5°	14.1	7.0	5.3	3.5	3.5	1.8	1.8	1.8	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)