

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: P455797

Luminaire Tested: **GALN-SA7A-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455797  
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-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 23862 lumens  
Efficiency: N/A  
Efficacy: 111.0 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

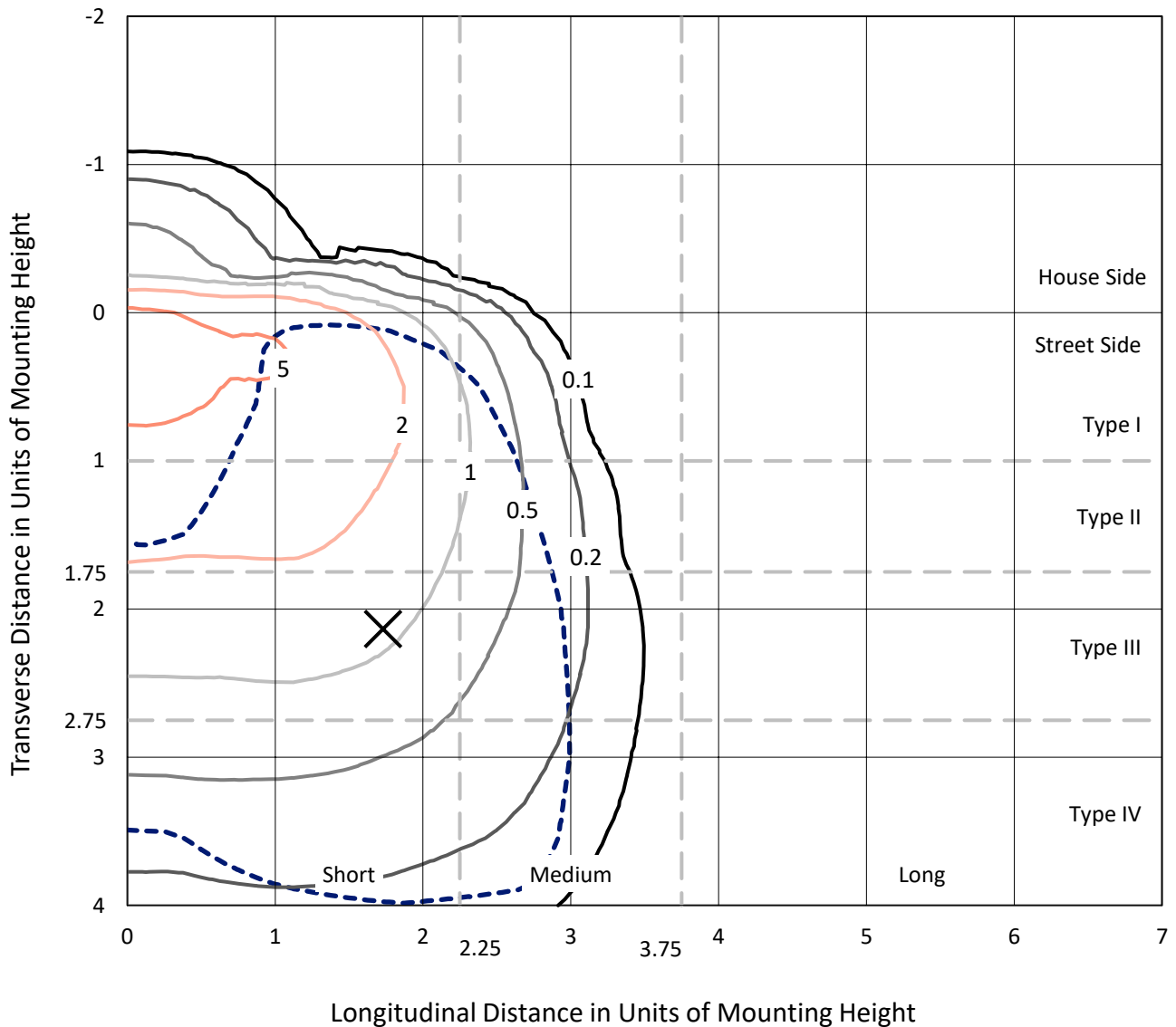
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

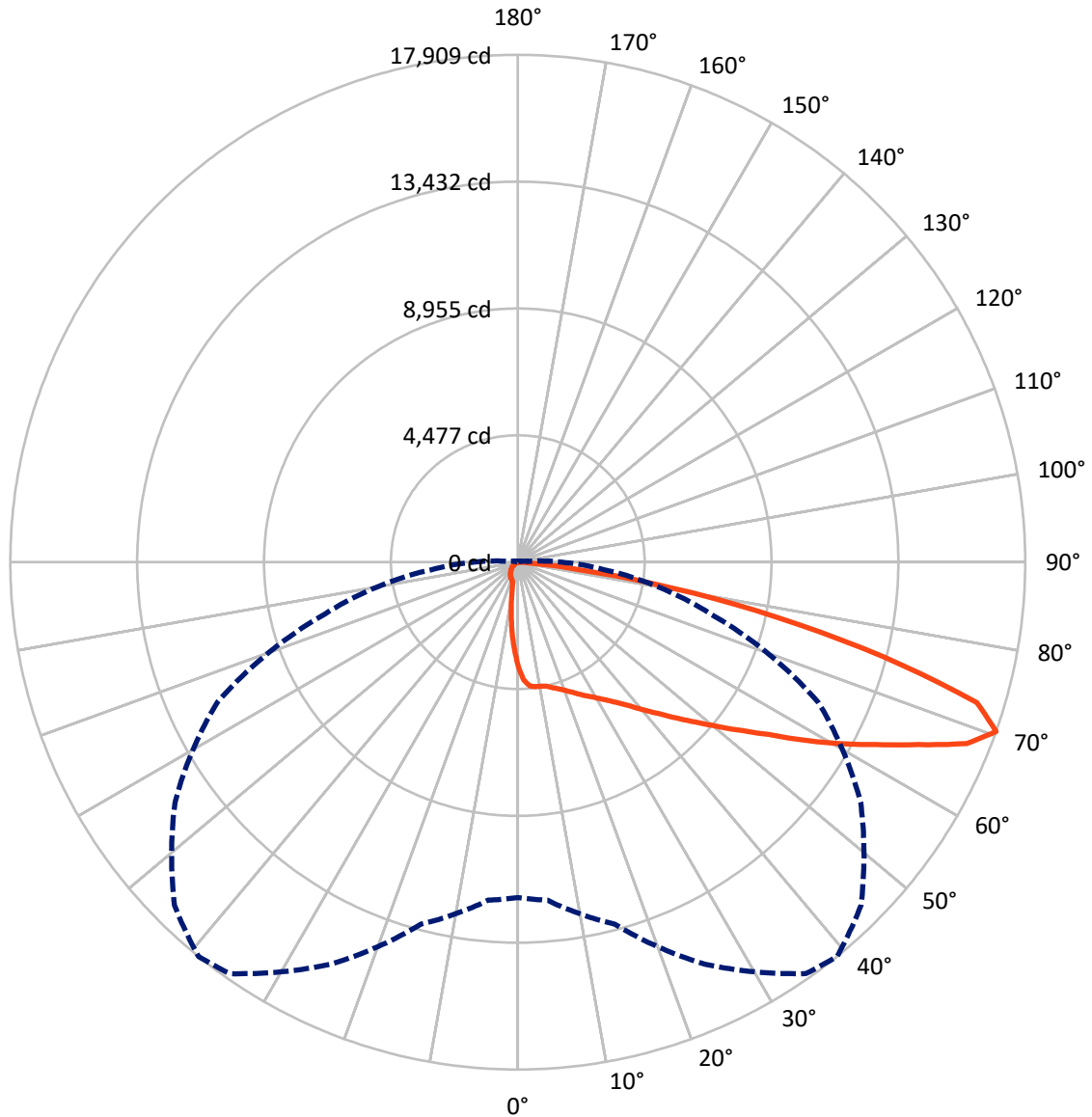
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	1555.9	0.0	1555.9
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	22306.1	0.0	22306.1
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	23862.0	0.0	23862.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.6	1.3
10°-20°	825.3	3.5
20°-30°	1382.6	5.8
30°-40°	2144.2	9.0
40°-50°	3397.9	14.2
50°-60°	4980.8	20.9
60°-70°	6384.2	26.8
70°-80°	4011.6	16.8
80°-90°	417.9	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°	23862.0	100.0
0°-180°	23862.0	100.0



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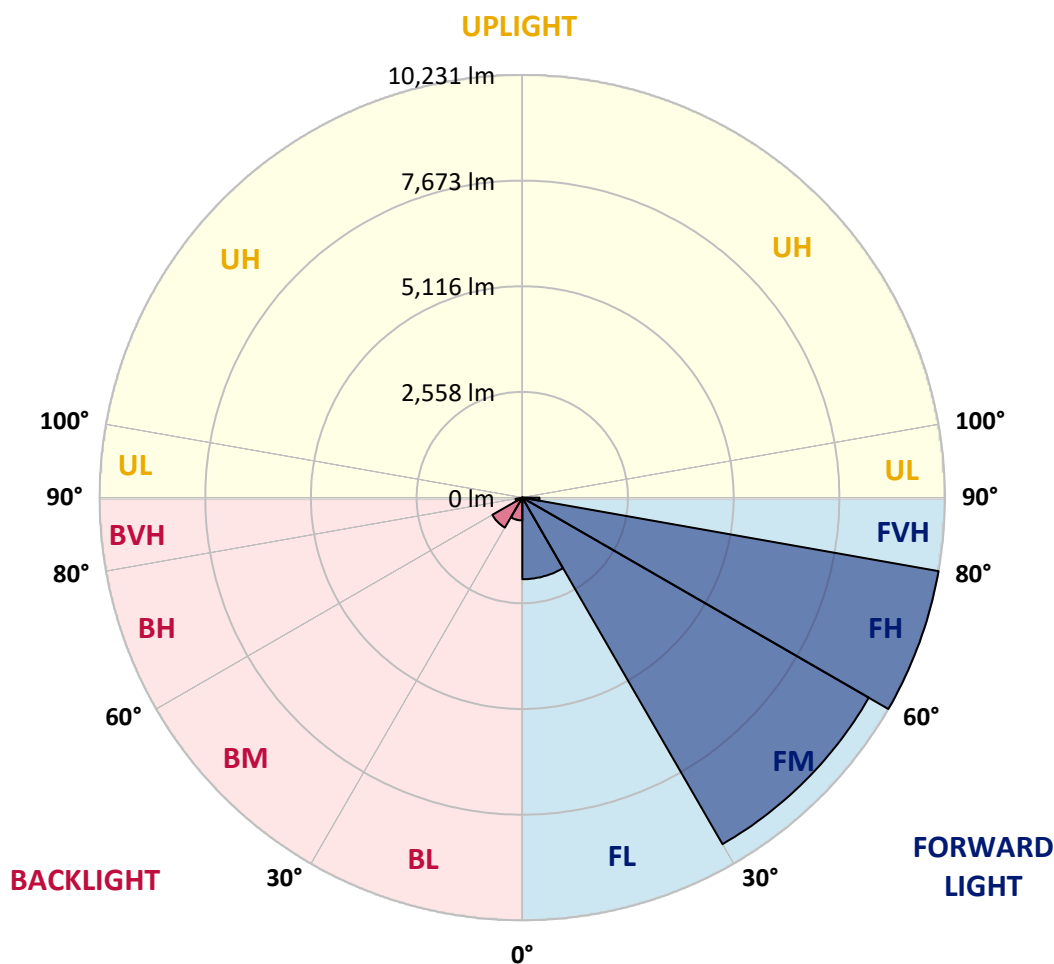
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1974.5	8.3			
FM	(30°-60°)	9685.5	40.6			
FH	(60°-80°)	10231.2	42.9			G4/12000
FVH	(80°-90°)	414.8	1.7			G3/500
BL	(0°-30°)	550.9	2.3	B2/1000		
BM	(30°-60°)	837.3	3.5	B1/1000		
BH	(60°-80°)	164.5	0.7	B1/500		G1/500
BVH	(80°-90°)	3.1	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°	3723.3	3723.3	3723.3	3723.3	3723.3	3723.3	3723.3	3723.3	3723.3	3723.3	3723.3
2.5°	4302.1	4287.7	4268.5	4246.0	4181.9	4170.7	4132.2	4050.4	3952.6	3872.4	3761.8
5°	4505.8	4513.8	4499.4	4459.3	4412.8	4385.5	4337.4	4210.7	4084.1	3922.1	3740.9
7.5°	4552.3	4568.3	4550.7	4512.2	4467.3	4438.4	4400.0	4290.9	4143.4	3959.0	3710.5
10°	4547.5	4566.7	4555.5	4520.2	4483.3	4456.1	4414.4	4327.8	4209.1	4015.1	3720.1
12.5°	4539.5	4565.1	4563.5	4545.9	4515.4	4494.6	4468.9	4391.9	4281.3	4096.9	3773.0
15°	4517.0	4549.1	4577.9	4592.4	4594.0	4594.0	4561.9	4480.1	4374.3	4204.3	3841.9
17.5°	4526.6	4563.5	4635.7	4677.4	4706.2	4703.0	4669.3	4581.2	4464.1	4315.0	3914.1
20°	4586.0	4635.7	4736.7	4820.1	4848.9	4839.3	4794.4	4691.8	4558.7	4409.6	3984.7
22.5°	4731.9	4776.8	4903.5	5001.3	5022.1	4996.5	4932.3	4792.8	4672.6	4512.2	4069.6
25°	4950.0	5002.9	5119.9	5193.7	5193.7	5179.3	5089.5	4925.9	4800.8	4654.9	4180.3
27.5°	5214.5	5259.4	5374.9	5440.6	5402.1	5360.4	5270.7	5073.4	4953.2	4834.5	4313.4
30°	5482.3	5511.2	5633.0	5661.9	5621.8	5568.9	5472.7	5275.5	5169.6	5078.2	4505.8
32.5°	5735.7	5798.2	5899.2	5892.8	5838.3	5812.6	5724.4	5514.4	5455.1	5445.4	4775.2
35°	5989.0	6037.1	6126.9	6149.4	6101.3	6096.4	6032.3	5876.8	5878.4	5940.9	5195.3
37.5°	6207.1	6250.4	6356.2	6405.9	6415.5	6439.6	6413.9	6311.3	6457.2	6628.8	5751.7
40°	6389.9	6450.8	6585.5	6672.1	6771.5	6859.7	6864.5	6887.0	7180.4	7475.4	6478.1
42.5°	6532.6	6617.6	6813.2	6973.6	7201.2	7313.5	7403.3	7526.8	8020.6	8461.6	7334.3
45°	6718.6	6816.4	7060.1	7311.9	7667.9	7852.3	7977.3	8307.7	9008.4	9609.7	8213.0
47.5°	7026.5	7077.8	7326.3	7693.5	8161.7	8424.7	8668.4	9168.7	10068.3	10607.0	8944.2
50°	7422.5	7456.2	7643.8	8153.7	8759.8	9106.2	9550.4	10138.8	11168.3	11434.4	9357.9
52.5°	7860.3	7871.5	8012.6	8660.4	9430.1	9866.2	10363.3	11089.7	12064.6	12024.5	9632.1
55°	8368.6	8352.5	8472.8	9210.4	10223.8	10722.5	11301.4	12063.0	12842.3	12443.0	9789.3
57.5°	8950.6	8907.4	9024.4	9940.0	11240.4	11836.9	12425.4	12903.2	13445.2	12794.2	9864.6
60°	9560.0	9473.4	9612.9	10759.4	12438.2	13004.3	13493.3	13621.6	14080.2	13073.2	9734.8
62.5°	10045.8	10047.4	10307.2	11631.7	13669.7	14165.2	14424.9	14540.4	14627.0	13012.3	9051.7
65°	10804.3	10829.9	11245.2	12842.3	15095.2	15524.9	15702.9	15327.7	14651.0	12255.4	8025.4
67.5°	11586.8	11668.6	12428.6	14509.9	16742.0	17088.3	16859.0	15480.0	13996.8	10528.5	6085.2
70°	11841.7	11976.4	13228.7	15658.0	17729.7	17909.3	17133.2	14769.7	11700.6	7039.3	3062.7
72.5°	10850.8	11068.9	12768.5	15239.5	17099.6	16944.0	15329.3	12386.9	7438.6	2673.0	934.8
75°	7651.8	7748.0	10611.9	12641.9	13753.1	13312.1	11660.5	7985.4	3059.4	750.4	320.7
77.5°	3951.0	3904.5	6311.3	8387.8	9808.5	9351.5	7635.8	4133.8	1159.3	312.7	198.8
80°	2042.8	2076.5	2730.7	4395.2	5987.4	5509.6	4071.2	1916.2	617.3	173.2	152.3
82.5°	1144.9	1074.3	1569.8	1919.4	2799.7	2195.2	1561.8	1356.5	269.4	104.2	144.3
85°	208.5	218.1	861.1	1037.5	971.7	617.3	503.5	906.0	78.6	57.7	101.0
87.5°	3.2	3.2	166.8	298.2	189.2	86.6	158.7	129.9	16.0	22.4	17.6
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°	3723.3	3723.3	3723.3	3723.3	3723.3	3723.3	3723.3	3723.3	3723.3	3723.3	3723.3
2.5°	3705.7	3644.7	3530.9	3418.6	3275.9	3158.9	3080.3	2998.5	2915.1	2921.5	2940.8
5°	3641.5	3535.7	3311.2	3073.9	2846.2	2640.9	2438.9	2257.7	2183.9	2116.6	2119.8
7.5°	3577.4	3428.2	3099.5	2727.5	2382.8	2033.2	1779.9	1571.4	1460.8	1377.4	1353.3
10°	3548.5	3351.3	2905.5	2394.0	1904.9	1523.3	1197.8	1027.8	896.3	854.7	865.9
12.5°	3561.3	3312.8	2730.7	2092.5	1510.5	1061.5	833.8	747.2	718.4	713.6	710.3
15°	3585.4	3285.5	2559.2	1759.0	1109.6	788.9	700.7	684.7	681.5	678.3	679.9
17.5°	3617.5	3261.5	2376.4	1446.3	851.5	689.5	663.8	655.8	654.2	654.2	654.2
20°	3649.5	3234.2	2172.7	1167.3	710.3	651.0	635.0	630.2	628.6	628.6	627.0
22.5°	3686.4	3210.2	1965.9	917.2	654.2	623.8	609.3	606.1	604.5	602.9	602.9
25°	3739.3	3179.7	1746.2	750.4	618.9	598.1	583.7	580.5	578.9	572.4	574.0
27.5°	3809.9	3157.3	1520.1	647.8	586.9	566.0	556.4	551.6	548.4	543.6	545.2
30°	3906.1	3138.0	1279.6	591.7	550.0	532.4	522.7	519.5	516.3	511.5	511.5
32.5°	4072.9	3146.0	1026.2	546.8	516.3	495.5	485.9	482.6	479.4	474.6	474.6
35°	4323.0	3192.5	821.0	508.3	476.2	455.4	445.8	445.8	441.0	434.5	432.9
37.5°	4731.9	3311.2	659.0	471.4	437.8	418.5	407.3	404.1	399.3	389.6	388.0
40°	5214.5	3495.6	554.8	434.5	402.5	383.2	373.6	364.0	351.2	341.5	339.9
42.5°	5820.6	3684.8	481.0	397.7	368.8	351.2	339.9	323.9	304.7	291.8	290.2
45°	6452.4	3858.0	431.3	364.0	336.7	322.3	309.5	283.8	259.8	243.7	242.1
47.5°	6923.8	3890.1	391.3	331.9	309.5	295.0	277.4	245.3	213.3	198.8	194.0
50°	7146.7	3734.5	349.6	299.9	282.2	266.2	243.7	206.8	171.6	153.9	150.7
52.5°	7225.3	3465.1	315.9	271.0	255.0	235.7	208.5	166.8	134.7	117.1	115.5
55°	7193.2	3125.2	285.4	243.7	222.9	200.4	173.2	133.1	99.4	85.0	81.8
57.5°	7024.9	2692.3	255.0	216.5	190.8	168.4	137.9	99.4	67.3	54.5	52.9
60°	6571.1	2102.2	224.5	186.0	162.0	137.9	109.0	70.6	41.7	30.5	30.5
62.5°	5804.6	1560.2	195.6	155.5	136.3	110.6	77.0	44.9	22.4	16.0	14.4
65°	4850.5	1151.3	163.6	131.5	113.8	86.6	54.5	27.3	11.2	4.8	3.2
67.5°	3385.0	710.3	136.3	107.4	93.0	62.5	33.7	11.2	4.8	0.0	0.0
70°	1537.7	338.3	104.2	81.8	70.6	44.9	17.6	6.4	3.2	0.0	0.0
72.5°	477.8	178.0	73.8	59.3	48.1	28.9	9.6	4.8	3.2	0.0	0.0
75°	221.3	113.8	46.5	32.1	27.3	14.4	6.4	3.2	1.6	0.0	0.0
77.5°	165.2	88.2	27.3	17.6	14.4	9.6	4.8	3.2	1.6	0.0	0.0
80°	144.3	44.9	16.0	11.2	8.0	6.4	3.2	1.6	0.0	0.0	0.0
82.5°	129.9	22.4	9.6	6.4	4.8	3.2	1.6	1.6	0.0	0.0	0.0
85°	70.6	12.8	6.4	4.8	3.2	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	12.8	6.4	4.8	3.2	3.2	1.6	1.6	1.6	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)