

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: P455897

Luminaire Tested: **GALN-SA7A-760-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455897  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-760-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24938 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

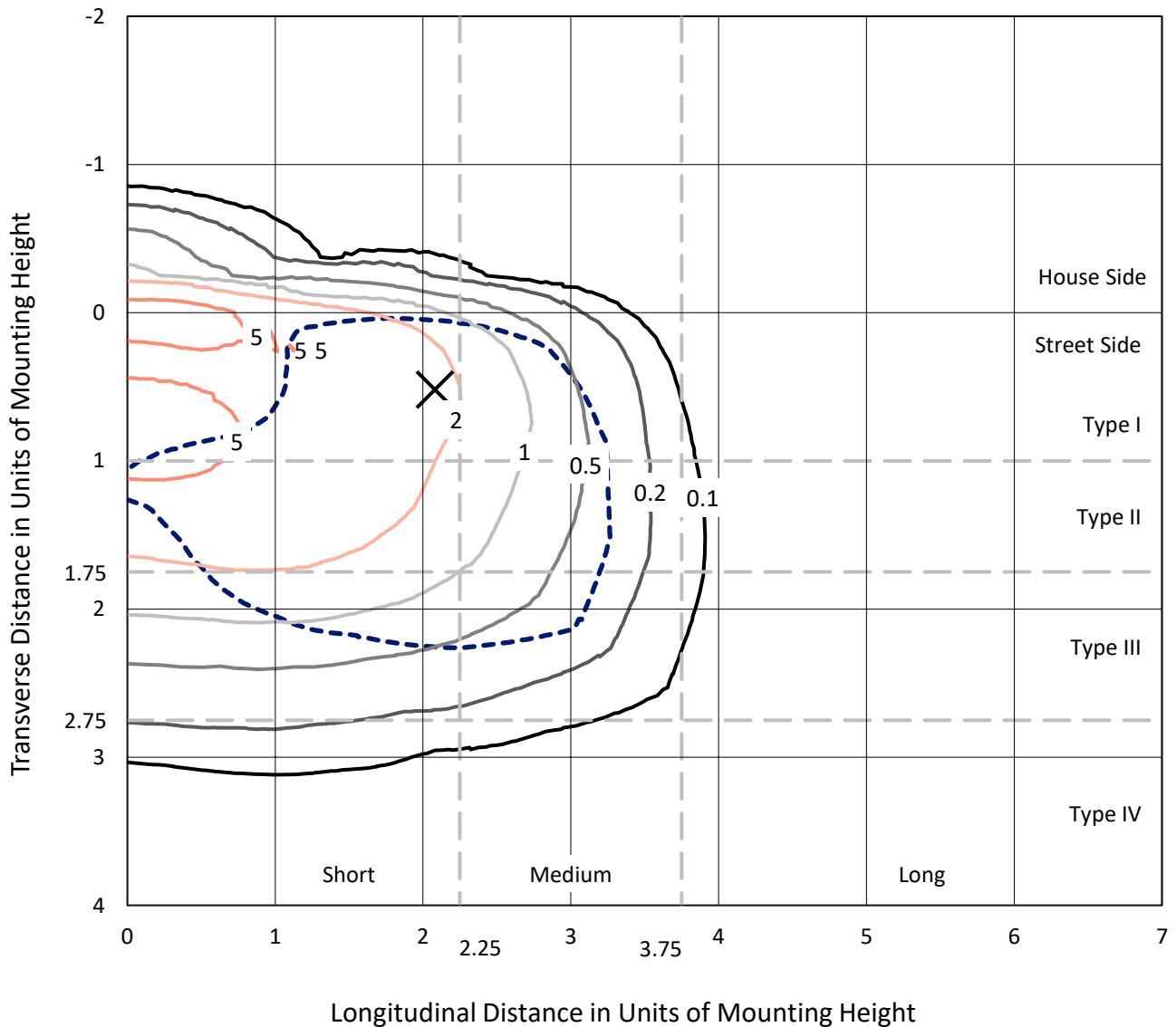
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

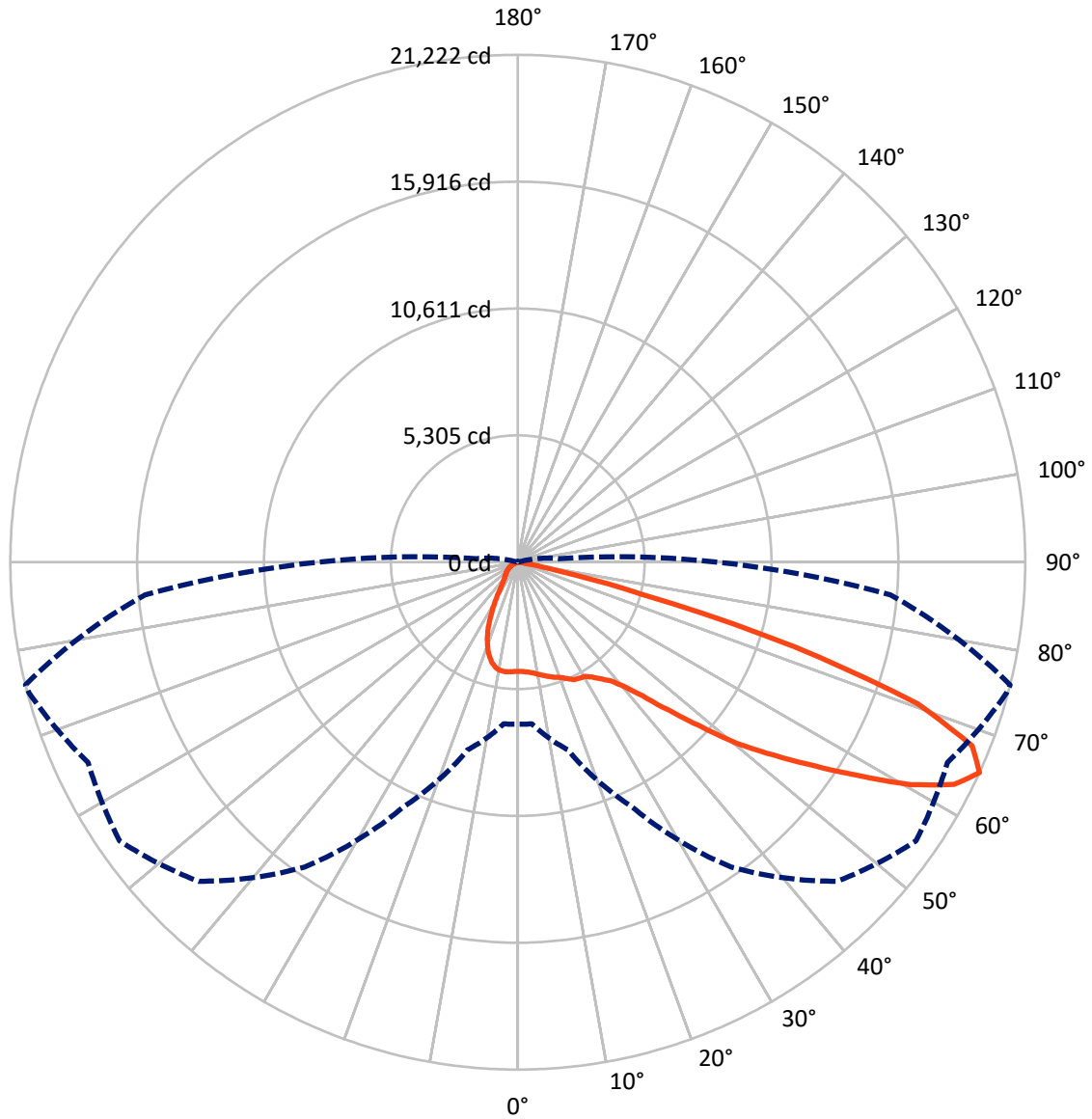
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1801.0	0.0	1801.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	23137.0	0.0	23137.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	24938.0	0.0	24938.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.8	1.5
10°-20°	836.7	3.4
20°-30°	1348.3	5.4
30°-40°	2344.4	9.4
40°-50°	3874.0	15.5
50°-60°	5984.6	24.0
60°-70°	7308.0	29.3
70°-80°	2773.6	11.1
80°-90°	92.6	0.4
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°	24938.0	100.0
0°-180°	24938.0	100.0



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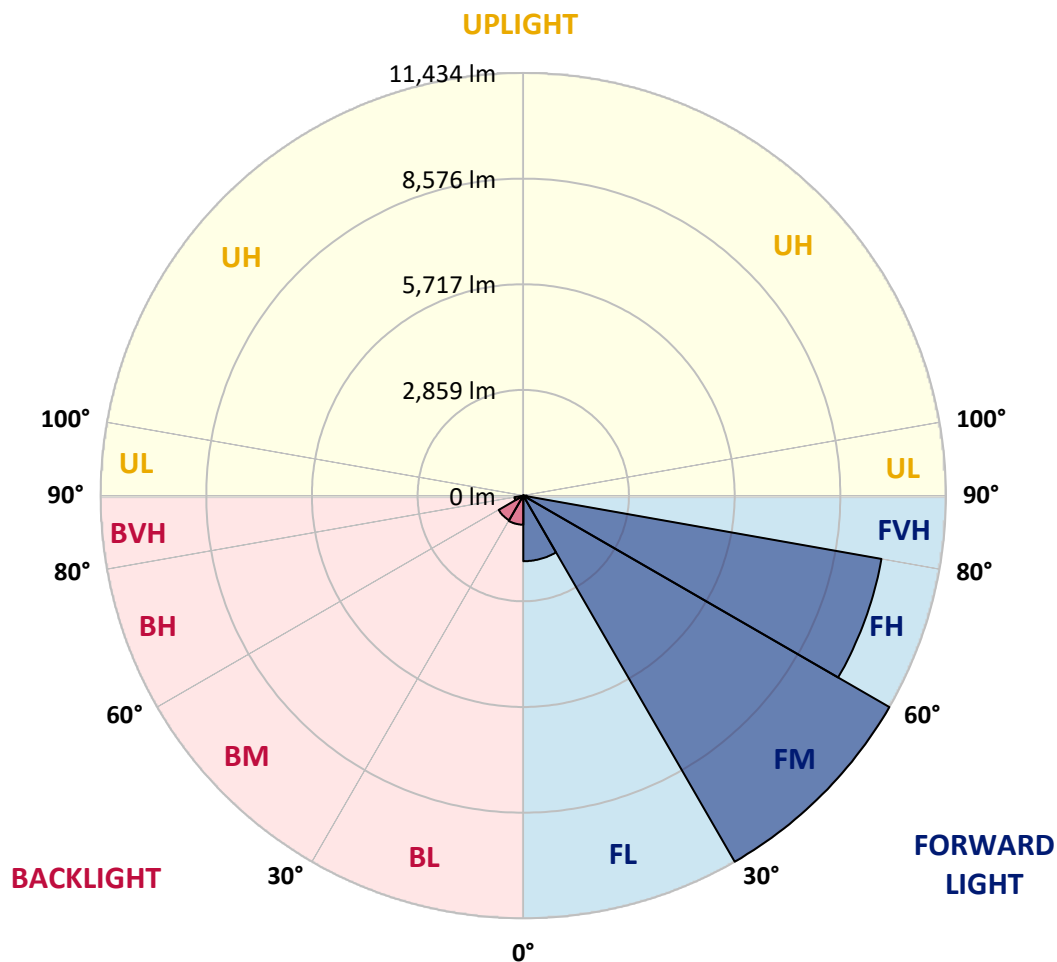
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1774.0	7.1			
FM (30°-60°)	11434.5	45.9			
FH (60°-80°)	9837.2	39.4			G4/12000
FVH (80°-90°)	91.3	0.4			G1/100
BL (0°-30°)	786.8	3.2	B2/1000		
BM (30°-60°)	768.5	3.1	B1/1000		
BH (60°-80°)	244.4	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4562.0	4562.0	4562.0	4562.0	4562.0	4562.0	4562.0	4562.0	4562.0	4562.0	4562.0
2.5°	4359.5	4361.2	4371.8	4398.2	4438.7	4472.2	4500.3	4546.1	4577.8	4581.3	4591.9
5°	4058.4	4037.3	4058.4	4127.1	4188.7	4282.0	4396.5	4510.9	4613.0	4620.1	4669.4
7.5°	3720.3	3738.0	3771.4	3841.8	3958.0	4100.7	4266.2	4470.4	4664.1	4681.7	4778.5
10°	3377.0	3415.7	3470.3	3577.7	3739.7	3924.6	4150.0	4442.2	4745.1	4769.7	4937.0
12.5°	3060.1	3077.7	3144.6	3289.0	3489.7	3750.3	4061.9	4426.4	4834.9	4864.8	5106.0
15°	2817.1	2840.0	2898.1	3028.4	3252.0	3586.5	3989.7	4421.1	4922.9	4965.2	5275.0
17.5°	2771.3	2785.4	2810.1	2898.1	3093.5	3456.2	3924.6	4419.3	5007.4	5058.5	5431.7
20°	2959.7	2947.4	2922.8	2913.9	3021.3	3355.9	3877.0	4433.4	5088.4	5146.5	5597.2
22.5°	3431.6	3447.4	3303.1	3132.3	3097.1	3340.0	3870.0	4500.3	5216.9	5285.6	5782.1
25°	4433.4	4311.9	4086.6	3678.1	3370.0	3436.9	3949.2	4658.8	5366.6	5442.3	5949.4
27.5°	5540.9	5503.9	5153.5	4481.0	3907.0	3641.1	4090.1	4780.3	5415.9	5493.4	6044.5
30°	6629.0	6673.0	6271.6	5528.6	4687.0	4019.7	4222.1	4826.1	5459.9	5540.9	6165.9
32.5°	7637.9	7690.7	7338.6	6602.6	5606.0	4674.6	4449.3	5003.9	5644.8	5727.5	6368.4
35°	8432.0	8439.0	8173.1	7586.8	6609.6	5470.5	4940.5	5315.5	5894.8	5991.6	6583.2
37.5°	9160.9	9150.3	8838.7	8333.4	7446.0	6261.0	5558.5	5674.7	6180.0	6280.4	6893.1
40°	9701.4	9708.5	9608.1	9132.7	8226.0	6991.7	6048.0	6011.0	6658.9	6815.6	7343.9
42.5°	10062.4	10127.5	10176.8	9935.6	9206.7	7891.4	6799.8	6731.1	7490.0	7620.3	7981.2
45°	10354.6	10470.8	10717.3	10705.0	10148.6	8995.4	7831.6	7690.7	8667.9	8807.0	8792.9
47.5°	10567.7	10685.6	11094.1	11340.6	11034.3	10065.9	9129.2	9007.7	10074.7	10226.1	9689.1
50°	10676.8	10817.7	11338.9	11816.0	11726.2	11097.6	10608.2	10615.2	11773.8	11919.9	10727.9
52.5°	10421.5	10604.7	11469.2	12328.4	12502.7	12085.4	11993.8	12226.3	13286.2	13411.2	11666.4
55°	9606.3	9837.0	11291.3	12765.0	13402.4	13251.0	13567.9	13921.8	14939.5	15020.5	12629.5
57.5°	9090.5	9335.2	10766.6	13136.5	14483.5	14715.9	15217.7	15476.5	16645.6	16851.6	13735.2
60°	8655.6	8847.5	10335.3	13215.8	15582.1	16508.3	16996.0	17263.6	18751.4	18885.2	14951.8
62.5°	7931.9	8152.0	9606.3	12662.9	16135.0	17943.2	18953.9	18834.1	20380.0	20473.3	15698.3
65°	6768.1	6787.5	8127.4	11273.7	15564.5	18874.6	20329.0	19827.2	21158.3	21221.6	15640.2
67.5°	5051.4	5238.1	6252.2	8861.6	13147.1	18078.8	20774.4	19853.6	20667.0	20490.9	14398.9
70°	3253.8	3396.4	4238.0	6144.8	9479.6	15087.4	19297.2	18492.6	18138.7	17747.8	11786.1
72.5°	1501.9	1685.0	2517.8	3510.8	5621.9	10747.3	15664.9	15024.0	13055.5	12090.7	7491.7
75°	655.0	700.8	1243.0	1852.2	2635.8	5683.5	10328.2	9326.4	5896.6	5386.0	2998.5
77.5°	399.7	429.6	651.5	993.0	1035.3	2165.7	5563.8	4069.0	1822.3	1607.5	813.4
80°	271.1	304.6	473.6	519.4	353.9	603.9	2088.2	1086.3	368.0	352.1	174.3
82.5°	132.1	167.3	350.4	290.5	153.2	193.7	607.4	232.4	107.4	100.4	61.6
85°	19.4	33.5	197.2	190.2	68.7	45.8	107.4	58.1	37.0	35.2	28.2
87.5°	0.0	0.0	66.9	29.9	7.0	7.0	12.3	12.3	14.1	12.3	14.1
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°	4562.0	4562.0	4562.0	4562.0	4562.0	4562.0	4562.0	4562.0	4562.0	4562.0	4562.0
2.5°	4597.2	4606.0	4572.5	4525.0	4473.9	4422.9	4350.7	4285.5	4246.8	4269.7	4213.3
5°	4679.9	4672.9	4584.8	4440.5	4248.6	4017.9	3789.0	3593.6	3530.2	3435.1	3424.5
7.5°	4794.4	4775.0	4588.4	4257.4	3824.2	3391.1	2968.5	2688.6	2528.4	2392.8	2396.3
10°	4954.6	4898.2	4547.9	3935.1	3222.1	2568.9	2030.1	1660.3	1500.1	1449.1	1408.6
12.5°	5120.1	5010.9	4435.2	3500.3	2509.0	1755.4	1234.2	1008.9	910.3	878.6	875.1
15°	5268.0	5095.4	4238.0	2977.3	1824.1	1121.6	841.6	767.7	755.3	757.1	755.3
17.5°	5414.1	5162.4	3965.1	2422.7	1239.5	804.6	723.6	706.0	711.3	718.4	716.6
20°	5535.6	5176.4	3616.5	1848.7	876.8	706.0	679.6	676.1	681.4	686.7	686.7
22.5°	5667.7	5187.0	3202.7	1280.0	716.6	656.7	642.7	642.7	649.7	656.7	658.5
25°	5766.3	5128.9	2707.9	919.1	632.1	609.2	602.2	603.9	611.0	614.5	612.7
27.5°	5782.1	4965.2	2183.3	704.3	574.0	551.1	544.1	551.1	542.3	547.6	544.1
30°	5796.2	4757.4	1651.5	593.4	521.2	486.0	475.4	464.8	457.8	449.0	447.2
32.5°	5840.2	4512.7	1206.1	533.5	471.9	433.1	408.5	378.5	355.7	348.6	346.9
35°	5859.6	4218.6	885.6	486.0	427.8	385.6	341.6	299.3	265.9	253.5	262.3
37.5°	5933.5	3933.4	686.7	450.7	389.1	336.3	280.0	227.1	195.4	188.4	191.9
40°	6085.0	3623.5	575.7	420.8	355.7	290.5	221.8	170.8	149.7	142.6	140.9
42.5°	6327.9	3315.4	512.4	392.6	322.2	244.7	174.3	133.8	116.2	110.9	110.9
45°	6623.7	3019.6	468.3	362.7	287.0	197.2	137.3	107.4	96.8	93.3	93.3
47.5°	7012.8	2760.8	431.4	332.8	248.3	156.7	110.9	93.3	86.3	88.0	89.8
50°	7407.2	2568.9	390.9	299.3	204.2	128.5	95.1	82.8	81.0	82.8	82.8
52.5°	7704.8	2456.2	336.3	253.5	160.2	107.4	84.5	77.5	75.7	72.2	72.2
55°	8106.2	2431.5	267.6	206.0	126.8	89.8	75.7	70.4	65.1	61.6	59.9
57.5°	8622.1	2459.7	206.0	160.2	98.6	73.9	66.9	58.1	51.1	44.0	44.0
60°	8942.6	2396.3	160.2	123.2	72.2	59.9	51.1	42.3	33.5	28.2	26.4
62.5°	8840.4	2128.7	126.8	91.6	51.1	44.0	33.5	28.2	19.4	14.1	12.3
65°	8314.0	1718.4	102.1	63.4	37.0	26.4	17.6	17.6	8.8	1.8	0.0
67.5°	7276.9	1273.0	81.0	42.3	21.1	12.3	8.8	5.3	0.0	0.0	0.0
70°	5923.0	919.1	63.4	26.4	12.3	8.8	3.5	1.8	0.0	0.0	0.0
72.5°	3760.8	526.4	49.3	15.8	8.8	3.5	0.0	0.0	0.0	0.0	0.0
75°	1454.3	206.0	33.5	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	412.0	96.8	19.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	107.4	42.3	10.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	51.1	17.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.9	7.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	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)