

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: P457666

Luminaire Tested: **GALN-SA9A-730-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457666  
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-SA9A-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 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: 29561 lumens  
Efficiency: N/A  
Efficacy: 107.9 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

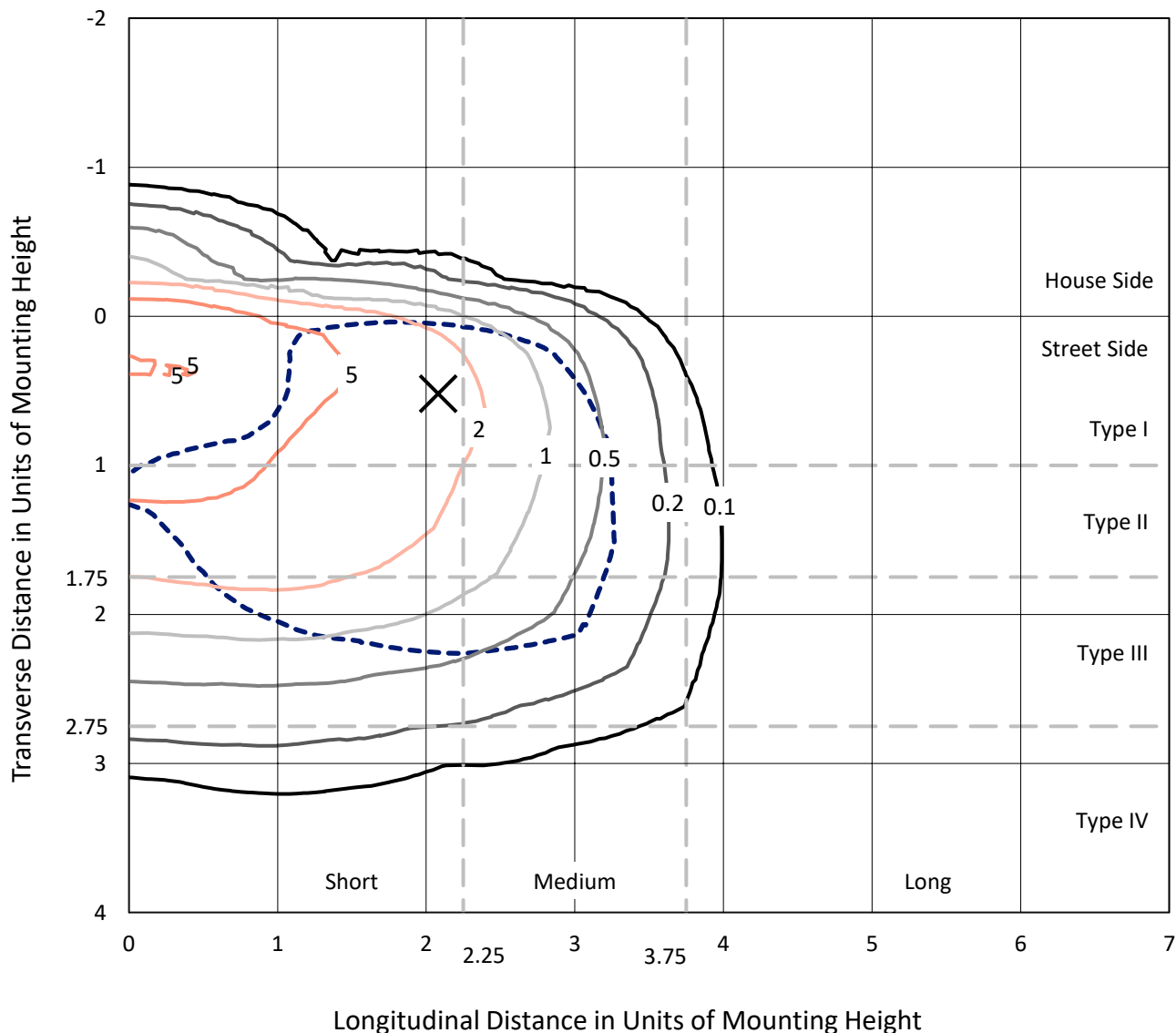
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457666  
 CATALOG NUMBER: GALN-SA9A-730-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

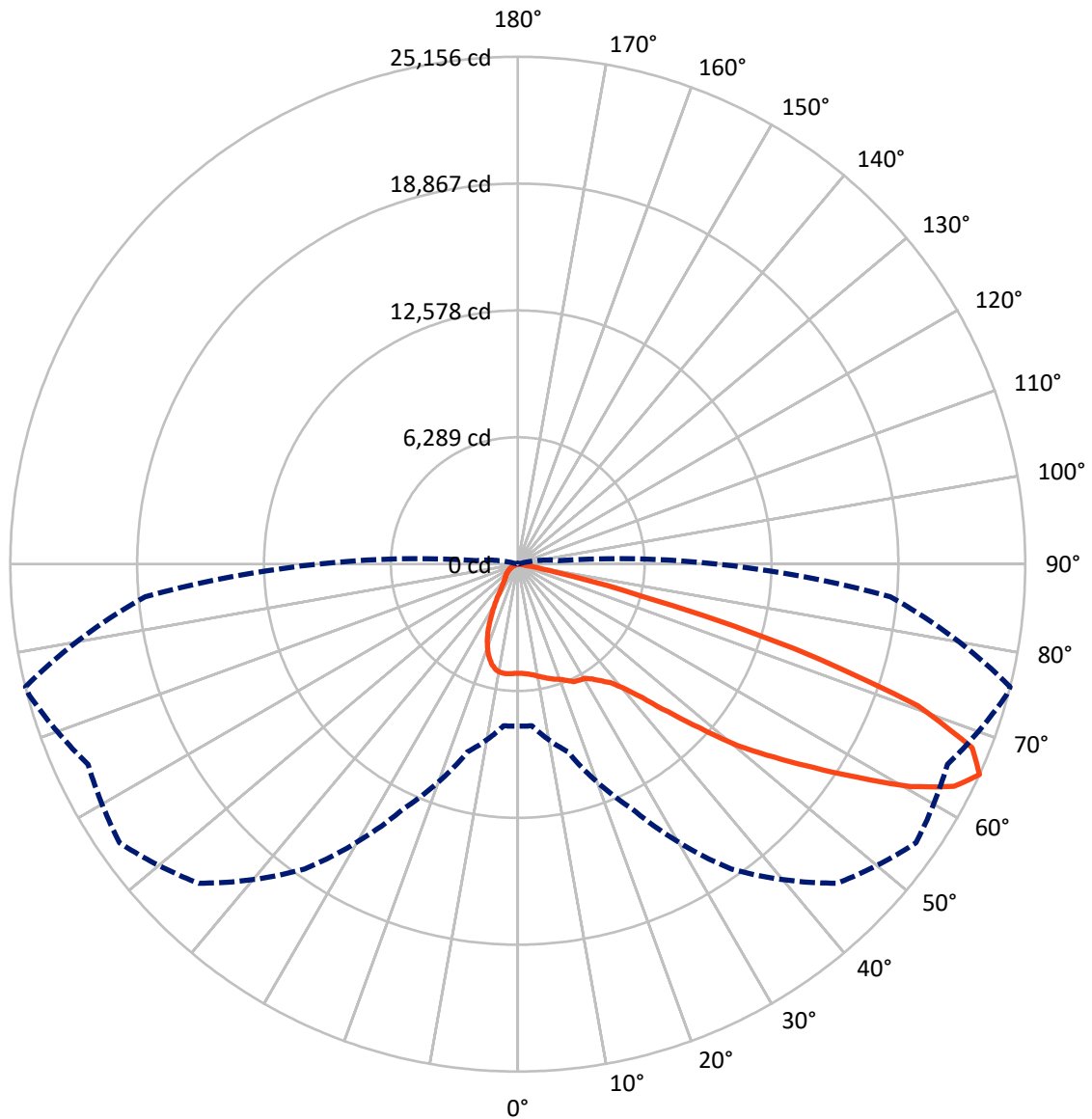
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Short - N/A

REPORT NUMBER: P457666  
CATALOG NUMBER: GALN-SA9A-730-U-T3R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P457666

CATALOG NUMBER: GALN-SA9A-730-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2134.9	0.0	2134.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	27426.1	0.0	27426.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	29561.0	0.0	29561.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.5	1.5
10°-20°	991.9	3.4
20°-30°	1598.3	5.4
30°-40°	2779.0	9.4
40°-50°	4592.2	15.5
50°-60°	7094.0	24.0
60°-70°	8662.8	29.3
70°-80°	3287.7	11.1
80°-90°	109.7	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°	29561.0	100.0
0°-180°	29561.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457666

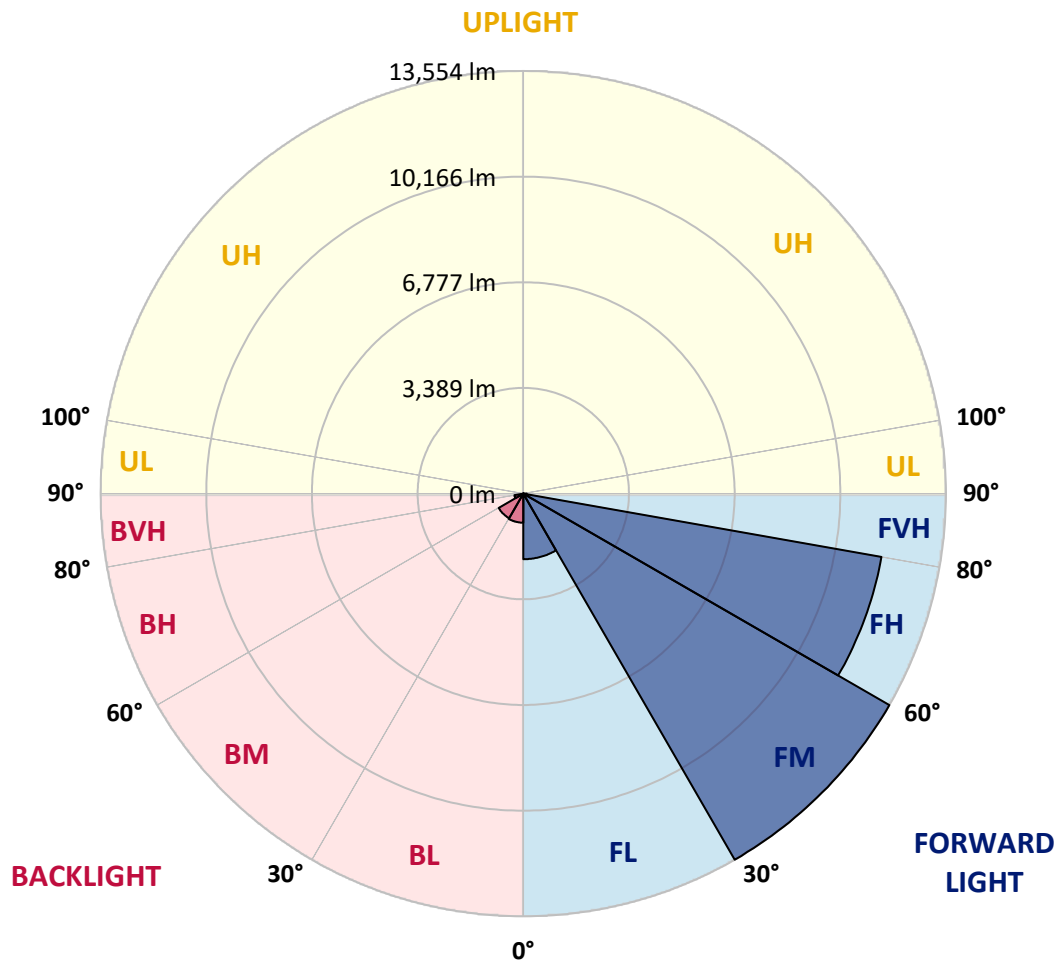
CATALOG NUMBER: GALN-SA9A-730-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2102.9	7.1			
FM (30°-60°)	13554.2	45.9			
FH (60°-80°)	11660.8	39.4			G4/12000
FVH (80°-90°)	108.2	0.4			G2/225
BL (0°-30°)	932.7	3.2	B2/1000		
BM (30°-60°)	911.0	3.1	B1/1000		
BH (60°-80°)	289.7	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	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





REPORT NUMBER: P457666

CATALOG NUMBER: GALN-SA9A-730-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7
2.5°	5167.6	5169.7	5182.2	5213.6	5261.6	5301.2	5334.6	5388.9	5426.4	5430.6	5443.1
5°	4810.7	4785.7	4810.7	4892.1	4965.2	5075.8	5211.5	5347.1	5468.2	5476.5	5535.0
7.5°	4410.0	4430.9	4470.5	4554.0	4691.8	4860.8	5057.0	5299.1	5528.7	5549.6	5664.4
10°	4003.0	4049.0	4113.7	4241.0	4433.0	4652.1	4919.3	5265.7	5624.7	5653.9	5852.2
12.5°	3627.4	3648.2	3727.5	3898.7	4136.6	4445.5	4814.9	5246.9	5731.1	5766.6	6052.6
15°	3339.3	3366.5	3435.4	3589.8	3854.9	4251.4	4729.3	5240.7	5835.5	5885.6	6252.9
17.5°	3285.1	3301.8	3331.0	3435.4	3667.0	4097.0	4652.1	5238.6	5935.7	5996.2	6438.7
20°	3508.4	3493.8	3464.6	3454.1	3581.4	3978.0	4595.8	5255.3	6031.7	6100.6	6634.9
22.5°	4067.7	4086.5	3915.4	3712.9	3671.2	3959.2	4587.4	5334.6	6184.0	6265.4	6854.0
25°	5255.3	5111.3	4844.1	4359.9	3994.7	4074.0	4681.3	5522.4	6361.5	6451.2	7052.3
27.5°	6568.1	6524.2	6108.9	5311.6	4631.3	4316.1	4848.3	5666.4	6419.9	6511.7	7165.0
30°	7857.9	7910.1	7434.2	6553.5	5555.8	4764.8	5004.8	5720.7	6472.1	6568.1	7309.0
32.5°	9053.8	9116.4	8699.0	7826.6	6645.3	5541.2	5274.1	5931.5	6691.2	6789.3	7549.0
35°	9995.1	10003.4	9688.3	8993.3	7834.9	6484.6	5856.4	6300.9	6987.6	7102.4	7803.6
37.5°	10859.1	10846.6	10477.2	9878.2	8826.3	7421.7	6588.9	6726.7	7325.7	7444.7	8171.0
40°	11499.9	11508.2	11389.3	10825.7	9750.9	8287.8	7169.2	7125.3	7893.4	8079.1	8705.3
42.5°	11927.7	12004.9	12063.4	11777.4	10913.4	9354.3	8060.3	7978.9	8878.5	9032.9	9460.8
45°	12274.2	12411.9	12704.1	12689.5	12030.0	10662.9	9283.4	9116.4	10274.7	10439.6	10422.9
47.5°	12526.7	12666.5	13150.8	13442.9	13079.8	11931.9	10821.6	10677.6	11942.3	12121.8	11485.3
50°	12656.1	12823.1	13440.9	14006.5	13900.0	13154.9	12574.7	12583.1	13956.4	14129.6	12716.6
52.5°	12353.5	12570.5	13595.3	14613.8	14820.4	14325.8	14217.3	14492.8	15749.2	15897.4	13829.1
55°	11387.2	11660.6	13384.5	15131.4	15886.9	15707.4	16083.1	16502.6	17709.0	17805.0	14970.7
57.5°	10775.6	11065.8	12762.6	15571.8	17168.4	17443.9	18038.7	18345.5	19731.3	19975.5	16281.4
60°	10260.1	10487.6	12251.2	15665.7	18470.7	19568.6	20146.7	20463.9	22227.5	22386.1	17723.6
62.5°	9402.3	9663.2	11387.2	15010.4	19126.1	21269.5	22467.5	22325.6	24158.1	24268.7	18608.5
65°	8022.8	8045.7	9634.0	13363.6	18449.9	22373.6	24097.5	23502.7	25080.6	25155.7	18539.6
67.5°	5987.9	6209.1	7411.3	10504.3	15584.3	21430.2	24625.6	23534.0	24498.3	24289.6	17068.2
70°	3856.9	4026.0	5023.6	7283.9	11236.9	17884.3	22874.5	21920.7	21501.2	21037.9	13971.0
72.5°	1780.3	1997.3	2984.5	4161.7	6664.1	12739.6	18568.8	17809.1	15475.8	14332.0	8880.6
75°	776.4	830.7	1473.5	2195.6	3124.4	6737.1	12242.9	11055.3	6989.7	6384.4	3554.3
77.5°	473.8	509.2	772.2	1177.1	1227.2	2567.1	6595.2	4823.3	2160.1	1905.5	964.2
80°	321.4	361.1	561.4	615.7	419.5	715.9	2475.3	1287.7	436.2	417.4	206.6
82.5°	156.5	198.3	415.3	344.4	181.6	229.6	720.0	275.5	127.3	119.0	73.0
85°	23.0	39.7	233.8	225.4	81.4	54.3	127.3	68.9	43.8	41.7	33.4
87.5°	0.0	0.0	79.3	35.5	8.3	8.3	14.6	14.6	16.7	14.6	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P457666

CATALOG NUMBER: GALN-SA9A-730-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7
2.5°	5449.4	5459.8	5420.2	5363.8	5303.3	5242.8	5157.2	5080.0	5034.1	5061.2	4994.4
5°	5547.5	5539.1	5434.8	5263.6	5036.1	4762.7	4491.4	4259.8	4184.6	4071.9	4059.4
7.5°	5683.1	5660.2	5439.0	5046.6	4533.2	4019.7	3518.8	3187.0	2997.1	2836.4	2840.5
10°	5873.1	5806.3	5391.0	4664.6	3819.4	3045.1	2406.4	1968.1	1778.2	1717.7	1669.7
12.5°	6069.3	5939.9	5257.4	4149.1	2974.1	2080.8	1463.1	1195.9	1079.0	1041.5	1037.3
15°	6244.6	6040.0	5023.6	3529.3	2162.2	1329.5	997.6	910.0	895.4	897.4	895.4
17.5°	6417.8	6119.3	4700.1	2871.8	1469.3	953.8	857.8	836.9	843.2	851.5	849.4
20°	6561.8	6136.0	4286.9	2191.4	1039.4	836.9	805.6	801.4	807.7	814.0	814.0
22.5°	6718.3	6148.6	3796.4	1517.3	849.4	778.5	761.8	761.8	770.1	778.5	780.6
25°	6835.2	6079.7	3209.9	1089.5	749.3	722.1	713.8	715.9	724.2	728.4	726.3
27.5°	6854.0	5885.6	2588.0	834.8	680.4	653.3	644.9	653.3	642.8	649.1	644.9
30°	6870.7	5639.3	1957.7	703.3	617.8	576.0	563.5	551.0	542.6	532.2	530.1
32.5°	6922.9	5349.2	1429.7	632.4	559.3	513.4	484.2	448.7	421.6	413.2	411.2
35°	6945.8	5000.7	1049.8	576.0	507.2	457.1	404.9	354.8	315.2	300.5	311.0
37.5°	7033.5	4662.6	814.0	534.3	461.2	398.6	331.8	269.2	231.7	223.3	227.5
40°	7213.0	4295.2	682.5	498.8	421.6	344.4	263.0	202.4	177.4	169.1	167.0
42.5°	7501.0	3930.0	607.3	465.4	381.9	290.1	206.6	158.6	137.7	131.5	131.5
45°	7851.6	3579.4	555.2	429.9	340.2	233.8	162.8	127.3	114.8	110.6	110.6
47.5°	8312.9	3272.6	511.3	394.5	294.3	185.8	131.5	110.6	102.3	104.4	106.4
50°	8780.4	3045.1	463.3	354.8	242.1	152.4	112.7	98.1	96.0	98.1	98.1
52.5°	9133.1	2911.5	398.6	300.5	189.9	127.3	100.2	91.8	89.7	85.6	85.6
55°	9609.0	2882.3	317.2	244.2	150.3	106.4	89.7	83.5	77.2	73.0	71.0
57.5°	10220.5	2915.7	244.2	189.9	116.9	87.7	79.3	68.9	60.5	52.2	52.2
60°	10600.3	2840.5	189.9	146.1	85.6	71.0	60.5	50.1	39.7	33.4	31.3
62.5°	10479.3	2523.3	150.3	108.5	60.5	52.2	39.7	33.4	23.0	16.7	14.6
65°	9855.2	2037.0	121.1	75.1	43.8	31.3	20.9	20.9	10.4	2.1	0.0
67.5°	8625.9	1509.0	96.0	50.1	25.0	14.6	10.4	6.3	0.0	0.0	0.0
70°	7021.0	1089.5	75.1	31.3	14.6	10.4	4.2	2.1	0.0	0.0	0.0
72.5°	4458.0	624.0	58.4	18.8	10.4	4.2	0.0	0.0	0.0	0.0	0.0
75°	1723.9	244.2	39.7	12.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	488.4	114.8	23.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	127.3	50.1	12.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	60.5	20.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.5	8.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.7	2.1	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)