

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: P652584

Luminaire Tested: **GALN-SA8B-840-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-840-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27826.2 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

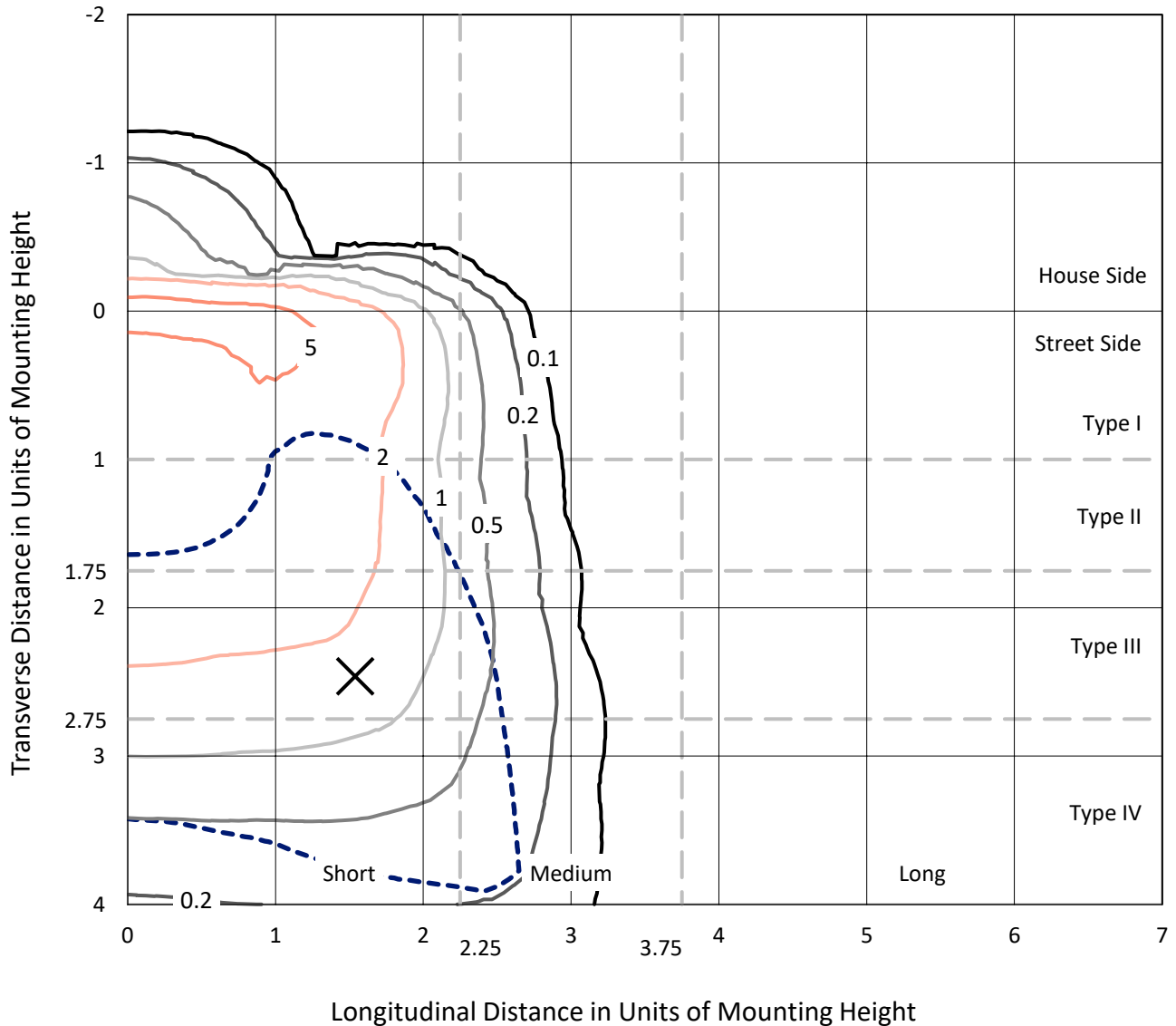
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

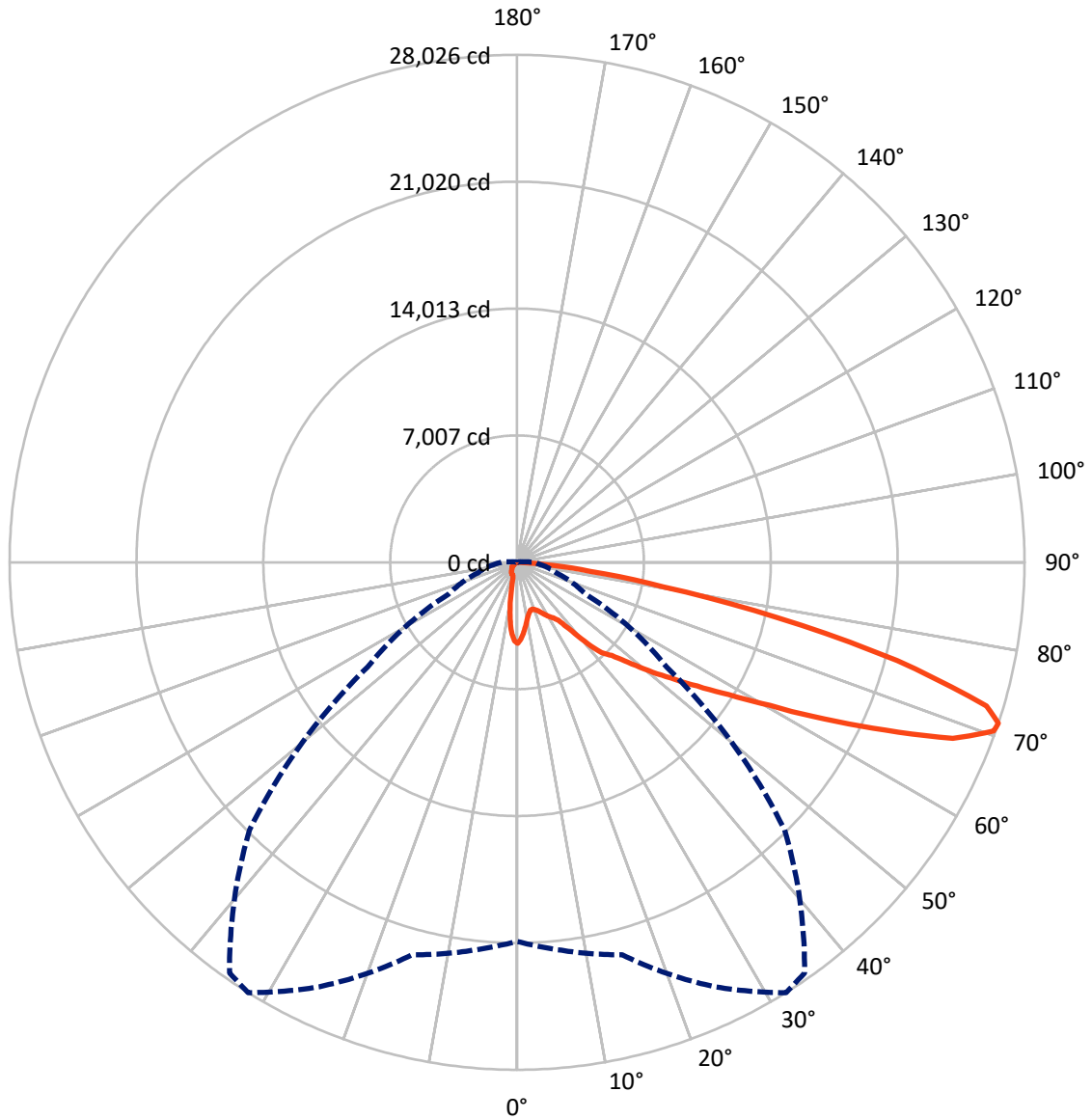
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2330.7	0.0	2330.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	25495.4	0.0	25495.4
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	27826.2	0.0	27826.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.9	1.3
10°-20°	789.7	2.8
20°-30°	1228.5	4.4
30°-40°	2046.8	7.4
40°-50°	3807.3	13.7
50°-60°	6112.8	22.0
60°-70°	8222.0	29.5
70°-80°	4878.2	17.5
80°-90°	377.1	1.4
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°	27826.2	100.0
0°-180°	27826.2	100.0

**Coefficient of Utilization**

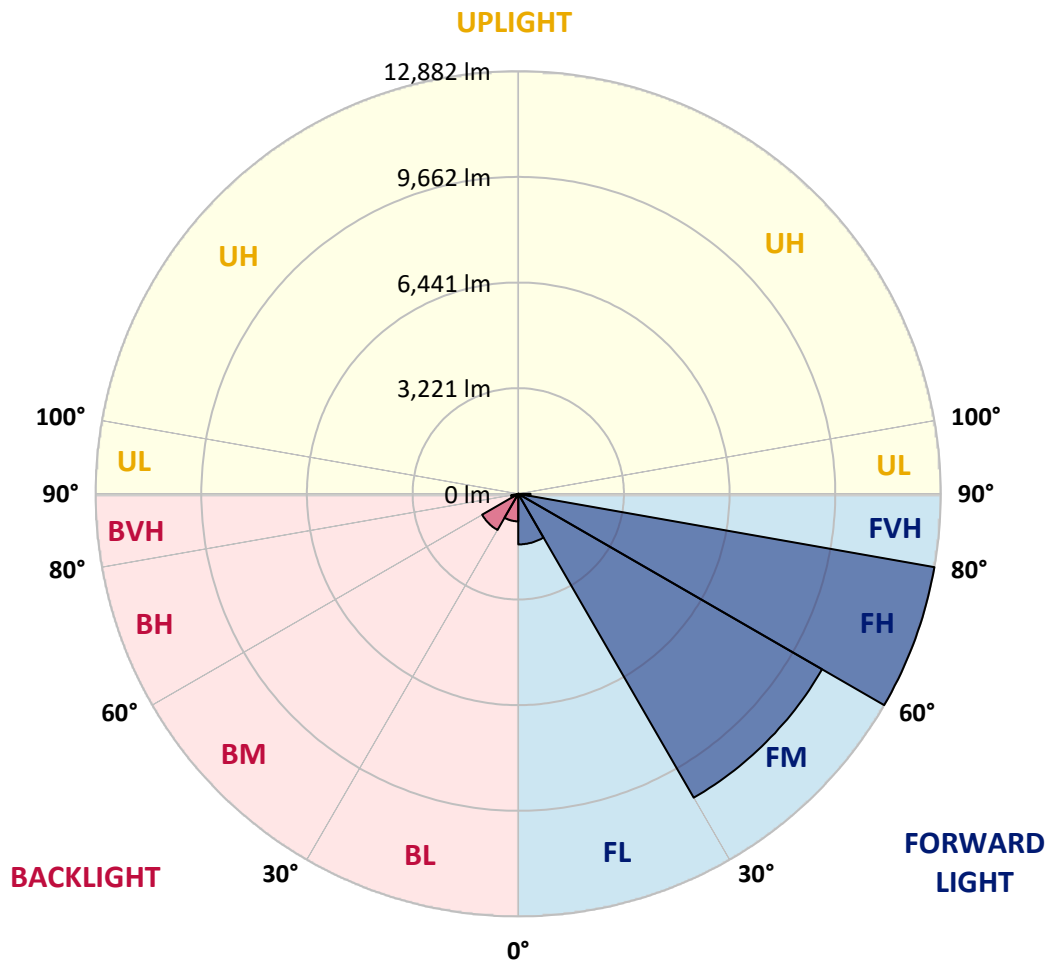


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1542.3	5.5			
FM (30°-60°)	10695.4	38.4			
FH (60°-80°)	12882.2	46.3			G5
FVH (80°-90°)	375.6	1.3			G3/500
BL (0°-30°)	839.8	3.0	B2/1000		
BM (30°-60°)	1271.5	4.6	B2/2500		
BH (60°-80°)	218.0	0.8	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-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9
2.5°	4150.3	4193.0	4186.5	4201.5	4237.8	4252.8	4293.3	4338.2	4400.1	4442.8	4470.6
5°	3716.6	3748.7	3752.9	3827.6	3864.0	3904.6	4024.2	4154.5	4299.7	4415.1	4491.9
7.5°	3253.1	3270.2	3304.4	3402.6	3494.4	3535.1	3716.6	3943.0	4171.6	4387.3	4526.2
10°	2870.8	2890.0	2951.9	3056.6	3142.1	3195.5	3447.5	3731.6	4051.9	4372.4	4575.3
12.5°	2652.9	2663.5	2687.1	2781.0	2890.0	2947.6	3218.9	3543.6	3955.8	4378.8	4658.6
15°	2638.0	2633.7	2605.9	2644.4	2742.6	2802.4	3067.3	3415.5	3870.4	4400.1	4756.9
17.5°	2716.9	2706.3	2640.1	2640.1	2721.2	2770.3	3003.2	3347.1	3827.6	4449.2	4895.6
20°	2838.7	2821.6	2712.7	2704.2	2783.2	2834.4	3041.6	3351.4	3836.2	4541.1	5081.5
22.5°	2992.5	2973.3	2808.9	2813.1	2898.5	2949.8	3152.7	3428.3	3889.6	4654.3	5280.1
25°	3193.3	3171.9	2977.6	2969.0	3058.7	3103.5	3317.2	3564.9	3964.4	4795.3	5540.8
27.5°	3460.3	3415.5	3182.6	3169.8	3265.9	3323.5	3515.8	3748.7	4096.8	4989.7	5891.0
30°	3680.3	3631.2	3409.0	3374.8	3477.4	3522.3	3720.9	3996.4	4357.4	5329.2	6375.9
32.5°	3968.7	3896.0	3635.5	3545.7	3654.6	3712.3	4017.8	4457.8	4744.0	5688.1	6952.6
35°	4618.0	4573.1	4254.9	3940.9	3934.5	4007.1	4455.6	4923.5	5141.3	6247.8	7738.6
37.5°	5547.2	5515.1	5177.6	4756.9	4635.1	4600.9	4987.6	5436.1	5775.7	7016.7	8652.9
40°	6625.8	6551.1	6241.3	5884.6	5726.5	5626.2	5615.5	6198.6	6604.5	8061.2	9605.5
42.5°	7399.0	7262.4	6886.4	6860.8	6826.6	6721.9	6418.6	7313.6	7674.5	9184.7	10624.4
45°	8210.7	8003.5	7443.9	7347.8	7334.9	7328.6	7631.8	8633.6	8840.8	10402.2	11671.0
47.5°	8840.8	8676.3	8217.2	8174.4	8227.8	8373.1	9235.9	10034.8	9992.1	11487.3	12548.9
50°	9680.2	9556.4	9045.9	9127.0	9402.6	9639.7	11045.2	11562.1	10938.4	12341.7	13187.6
52.5°	10671.4	10442.8	9968.6	10188.6	10611.6	11006.8	12965.4	12899.2	11602.7	12984.6	13663.9
55°	11530.0	11367.7	11205.4	11433.9	12066.2	12559.6	14699.8	13901.0	12085.4	13501.6	13873.2
57.5°	12982.5	12944.1	12777.5	13010.3	13777.1	14289.7	16252.7	14678.5	12395.1	13770.7	13627.6
60°	15131.3	15069.4	14759.6	15056.5	16056.2	16861.5	17683.8	15376.9	12465.6	13666.0	12920.5
62.5°	17715.8	17504.4	17239.5	17677.4	19048.6	19403.3	19031.6	15791.3	12202.8	12833.0	11216.1
65°	20129.5	19911.6	19918.0	20840.7	22333.8	22575.2	20603.7	15729.4	11433.9	10746.1	8272.7
67.5°	21977.1	21940.8	22201.4	24002.1	25954.4	25787.8	22009.1	14802.4	9154.8	6965.4	4395.8
70°	22071.1	22141.6	22889.2	25928.7	27910.9	27646.0	21889.5	12032.0	5707.4	3204.0	1732.3
71°	20934.8	21408.9	22442.8	25868.9	28026.2	27682.4	20881.4	10077.5	4186.5	2234.2	1249.6
72.5°	17839.7	18089.7	20323.9	24345.9	27114.2	26379.4	18324.5	7063.7	2680.7	1367.0	717.7
75°	9825.5	10440.7	13610.5	19100.0	21686.6	21041.6	11942.3	3355.6	1337.1	747.6	296.9
77.5°	4677.8	4558.2	6640.8	11359.1	14704.1	14669.9	6017.1	1490.9	779.6	506.2	149.5
80°	1337.1	1503.7	2541.8	5399.7	8163.8	8253.4	2311.2	719.8	540.4	395.2	76.9
82.5°	403.7	412.3	933.4	2388.0	4060.5	3827.6	867.2	367.3	388.7	314.0	44.8
85°	70.5	87.5	275.5	841.6	1548.6	1174.8	217.9	175.2	256.3	207.2	25.7
87.5°	4.3	6.4	91.8	96.1	136.7	79.1	38.4	25.7	55.5	55.5	15.0
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°	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9
2.5°	4489.8	4502.6	4494.1	4474.9	4442.8	4404.4	4353.1	4310.4	4274.1	4254.9	4278.3
5°	4517.6	4534.7	4491.9	4395.8	4250.6	4092.6	3913.1	3774.2	3665.3	3631.2	3618.3
7.5°	4560.3	4571.0	4455.6	4242.1	3934.5	3560.7	3233.9	2958.3	2744.8	2680.7	2586.7
10°	4615.8	4609.4	4391.6	3994.2	3453.9	2892.1	2385.9	2010.0	1725.9	1623.4	1614.8
12.5°	4701.3	4667.1	4310.4	3656.8	2881.4	2146.7	1520.8	1189.8	1010.3	950.5	937.7
15°	4808.1	4726.9	4182.3	3261.7	2206.4	1386.2	937.7	837.3	813.8	809.5	805.3
17.5°	4934.1	4806.0	4013.5	2776.8	1550.7	899.3	783.9	781.8	783.9	779.6	777.5
20°	5105.0	4889.2	3812.8	2202.2	1025.3	758.2	747.6	747.6	749.8	747.6	747.6
22.5°	5286.5	4987.6	3564.9	1681.0	773.2	719.8	717.7	722.0	726.2	724.1	724.1
25°	5510.8	5115.7	3238.2	1151.3	692.1	687.8	690.0	698.5	707.0	709.1	707.0
27.5°	5835.5	5273.7	2887.8	792.5	634.4	638.7	660.0	681.4	694.2	696.3	696.3
30°	6200.8	5448.9	2430.7	642.9	587.4	587.4	613.0	653.6	681.4	685.7	687.8
32.5°	6670.6	5651.8	1924.5	578.9	542.5	538.2	561.8	610.9	662.1	677.1	677.1
35°	7251.7	5891.0	1431.1	538.2	510.5	499.8	512.7	553.2	619.4	662.1	666.4
37.5°	7933.1	6117.4	1046.6	502.0	480.6	465.7	474.2	506.2	559.6	623.7	640.8
40°	8563.1	6318.3	781.8	472.1	450.7	440.0	446.4	461.4	506.2	566.1	576.7
42.5°	9250.9	6474.2	621.6	440.0	420.8	416.5	416.5	422.9	452.8	487.0	489.1
45°	9936.6	6529.7	521.2	401.6	388.7	393.0	390.9	386.6	399.4	395.2	395.2
47.5°	10425.7	6463.5	431.4	365.2	365.2	371.6	361.0	346.0	339.6	314.0	316.1
50°	10761.1	6222.1	354.6	322.5	339.6	348.2	326.8	303.3	279.8	252.0	245.7
52.5°	10899.9	5792.8	290.5	267.0	301.2	311.8	286.2	258.4	222.1	198.6	192.3
55°	10810.2	5263.1	241.4	217.9	254.2	267.0	241.4	209.3	168.7	143.1	138.8
57.5°	10415.0	4630.8	205.0	173.0	202.9	211.4	194.4	160.2	119.6	94.0	94.0
60°	9731.5	3977.2	166.6	136.7	151.6	164.5	147.3	115.3	81.2	57.7	53.4
62.5°	8345.2	3229.6	134.6	106.8	106.8	117.5	102.5	83.3	51.3	29.9	27.8
65°	6025.6	2215.0	106.8	79.1	76.9	76.9	64.1	55.5	29.9	12.8	8.6
67.5°	3274.4	1249.6	85.4	59.8	53.4	51.3	40.6	32.0	12.8	2.1	0.0
70°	1288.0	480.6	66.2	40.6	34.1	32.0	21.4	15.0	8.6	0.0	0.0
71°	873.6	331.1	57.7	34.1	27.8	23.5	17.1	12.8	6.4	0.0	0.0
72.5°	499.8	205.0	44.8	25.7	21.4	17.1	12.8	8.6	6.4	0.0	0.0
75°	217.9	104.7	27.8	19.3	15.0	10.7	8.6	6.4	2.1	0.0	0.0
77.5°	111.1	57.7	19.3	15.0	8.6	6.4	4.3	2.1	0.0	0.0	0.0
80°	62.0	29.9	12.8	8.6	6.4	4.3	2.1	2.1	0.0	0.0	0.0
82.5°	34.1	17.1	6.4	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.4	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	4.3	0.0	0.0	0.0	0.0	2.1	2.1	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)