

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: P452520

Luminaire Tested: **GALN-SA3C-727-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452520  
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-SA3C-727-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA 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: 14438 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

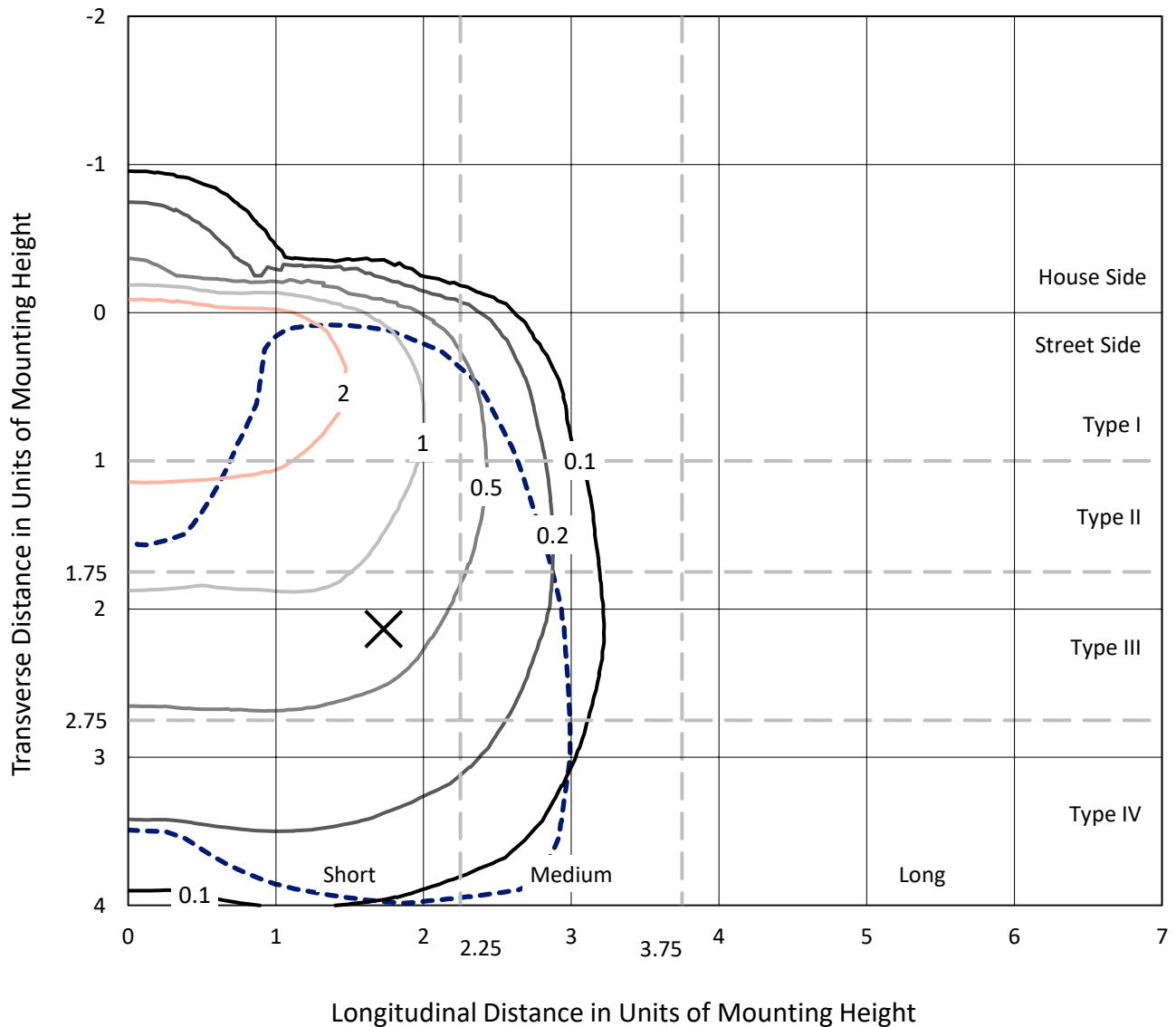
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

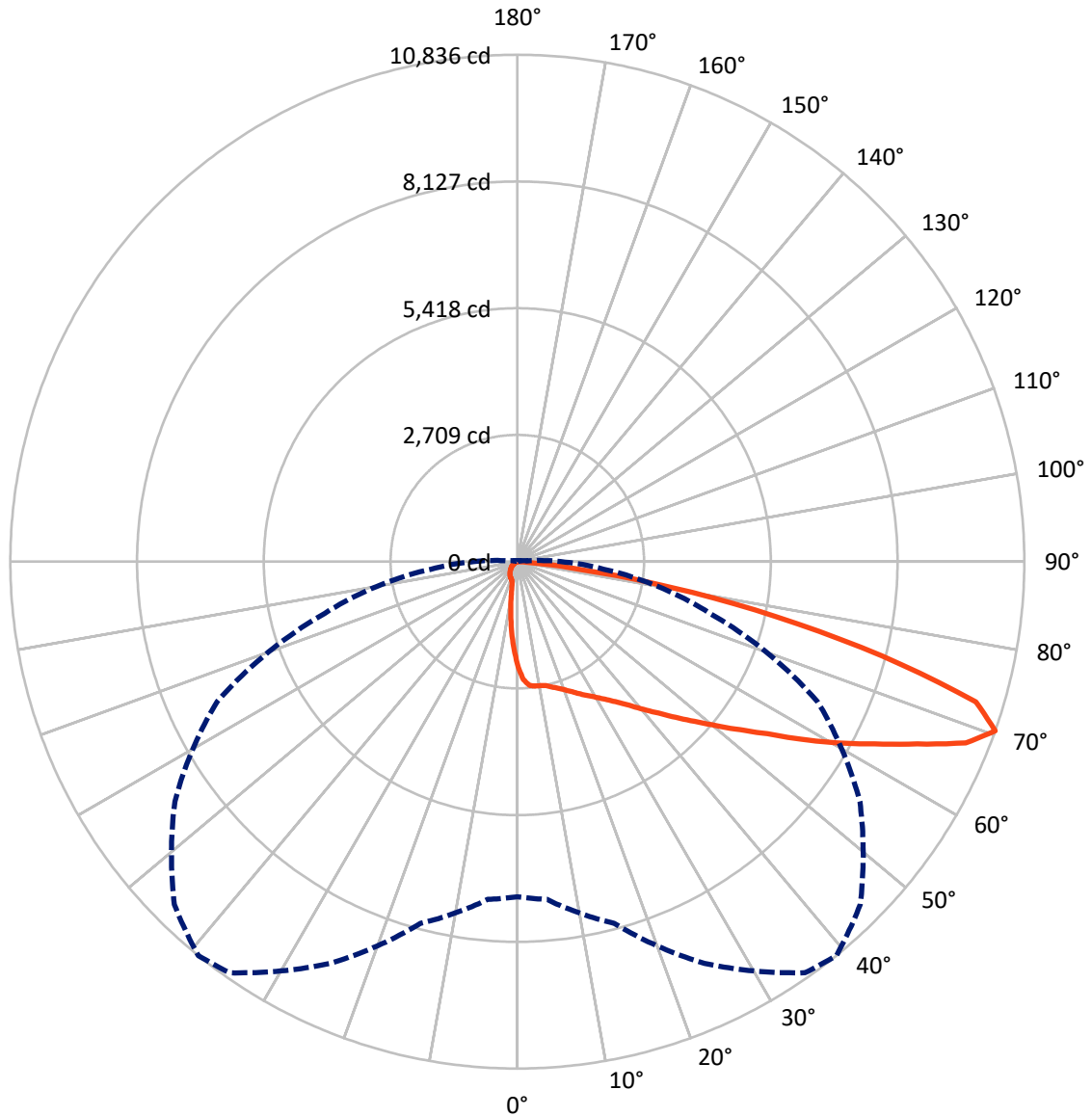
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	941.4	0.0	941.4
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	13496.6	0.0	13496.6
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	14438.0	0.0	14438.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.1	1.3
10°-20°	499.3	3.5
20°-30°	836.5	5.8
30°-40°	1297.4	9.0
40°-50°	2055.9	14.2
50°-60°	3013.7	20.9
60°-70°	3862.8	26.8
70°-80°	2427.3	16.8
80°-90°	252.9	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°	14438.0	100.0
0°-180°	14438.0	100.0

**Coefficient of Utilization**



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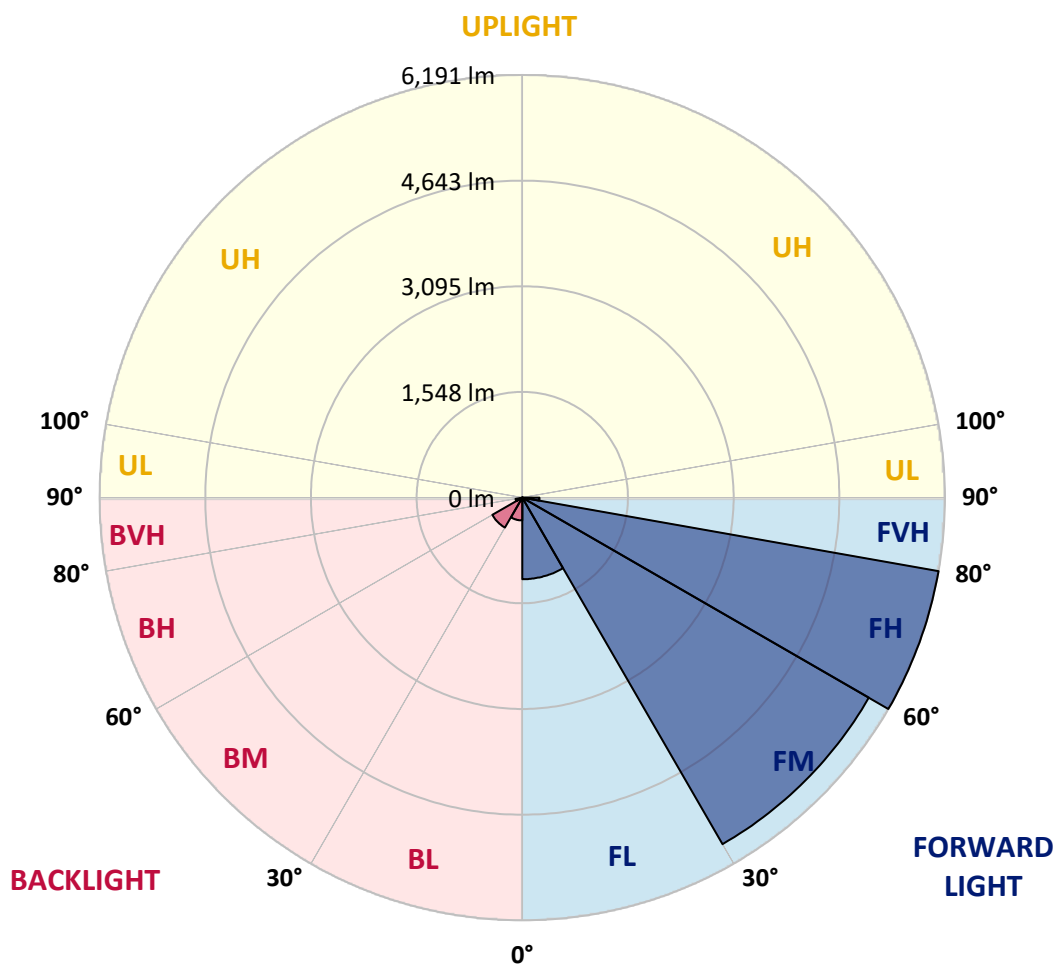
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1194.7	8.3			
FM (30°-60°)	5860.3	40.6			
FH (60°-80°)	6190.5	42.9			G3/7500
FVH (80°-90°)	251.0	1.7			G3/500
BL (0°-30°)	333.4	2.3	B1/500		
BM (30°-60°)	506.6	3.5	B1/1000		
BH (60°-80°)	99.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8
2.5°	2603.1	2594.3	2582.7	2569.1	2530.3	2523.5	2500.2	2450.7	2391.6	2343.1	2276.1
5°	2726.3	2731.1	2722.4	2698.1	2670.0	2653.5	2624.4	2547.8	2471.1	2373.1	2263.5
7.5°	2754.4	2764.1	2753.5	2730.2	2703.0	2685.5	2662.3	2596.3	2507.0	2395.4	2245.1
10°	2751.5	2763.2	2756.4	2735.0	2712.7	2696.2	2671.0	2618.6	2546.8	2429.4	2250.9
12.5°	2746.7	2762.2	2761.2	2750.5	2732.1	2719.5	2704.0	2657.4	2590.5	2478.9	2282.9
15°	2733.1	2752.5	2769.9	2778.7	2779.6	2779.6	2760.2	2710.8	2646.7	2543.9	2324.6
17.5°	2738.9	2761.2	2804.9	2830.1	2847.6	2845.6	2825.2	2771.9	2701.1	2610.8	2368.3
20°	2774.8	2804.9	2866.0	2916.4	2933.9	2928.1	2900.9	2838.8	2758.3	2668.1	2411.0
22.5°	2863.1	2890.2	2966.9	3026.1	3038.7	3023.2	2984.4	2900.0	2827.2	2730.2	2462.4
25°	2995.0	3027.0	3097.9	3142.5	3142.5	3133.8	3079.4	2980.5	2904.8	2816.5	2529.3
27.5°	3155.1	3182.3	3252.1	3291.9	3268.6	3243.4	3189.1	3069.7	2997.0	2925.2	2609.9
30°	3317.1	3334.6	3408.3	3425.8	3401.5	3369.5	3311.3	3192.0	3128.0	3072.6	2726.3
32.5°	3470.4	3508.3	3569.4	3565.5	3532.5	3517.0	3463.6	3336.5	3300.6	3294.8	2889.3
35°	3623.7	3652.8	3707.2	3720.7	3691.6	3688.7	3649.9	3555.8	3556.8	3594.6	3143.5
37.5°	3755.7	3781.9	3845.9	3876.0	3881.8	3896.4	3880.8	3818.7	3907.0	4010.8	3480.1
40°	3866.3	3903.1	3984.6	4037.0	4097.2	4150.6	4153.5	4167.0	4344.6	4523.1	3919.6
42.5°	3952.6	4004.0	4122.4	4219.4	4357.2	4425.1	4479.5	4554.2	4853.0	5119.8	4437.7
45°	4065.2	4124.4	4271.8	4424.1	4639.5	4751.1	4826.8	5026.6	5450.6	5814.5	4969.4
47.5°	4251.5	4282.5	4432.9	4655.1	4938.4	5097.5	5244.9	5547.6	6091.9	6417.9	5411.8
50°	4491.1	4511.5	4625.0	4933.5	5300.2	5509.8	5778.6	6134.6	6757.5	6918.6	5662.1
52.5°	4756.0	4762.8	4848.1	5240.1	5705.8	5969.7	6270.5	6710.0	7299.8	7275.6	5828.0
55°	5063.5	5053.8	5126.6	5572.9	6186.0	6487.8	6838.0	7298.9	7770.4	7528.8	5923.1
57.5°	5415.7	5389.5	5460.3	6014.3	6801.2	7162.1	7518.1	7807.3	8135.2	7741.3	5968.7
60°	5784.4	5732.0	5816.4	6510.1	7525.9	7868.4	8164.3	8241.9	8519.4	7910.1	5890.1
62.5°	6078.4	6079.3	6236.5	7037.9	8271.0	8570.8	8728.0	8797.8	8850.2	7873.2	5476.8
65°	6537.3	6552.8	6804.1	7770.4	9133.5	9393.6	9501.2	9274.2	8864.8	7415.3	4855.9
67.5°	7010.7	7060.2	7520.1	8779.4	10129.9	10339.5	10200.8	9366.4	8468.9	6370.4	3681.9
70°	7165.0	7246.5	8004.2	9474.1	10727.6	10836.3	10366.7	8936.6	7079.6	4259.2	1853.1
72.5°	6565.4	6697.3	7725.8	9220.9	10346.3	10252.2	9275.2	7494.9	4500.8	1617.3	565.6
75°	4629.8	4688.0	6420.8	7649.1	8321.5	8054.7	7055.4	4831.6	1851.2	454.1	194.0
77.5°	2390.6	2362.5	3818.7	5075.2	5934.8	5658.3	4620.1	2501.2	701.5	189.2	120.3
80°	1236.0	1256.4	1652.3	2659.3	3622.8	3333.6	2463.4	1159.4	373.5	104.8	92.2
82.5°	692.7	650.0	949.8	1161.3	1694.0	1328.2	945.0	820.8	163.0	63.1	87.3
85°	126.1	131.9	521.0	627.7	587.9	373.5	304.6	548.2	47.5	34.9	61.1
87.5°	1.9	1.9	100.9	180.5	114.5	52.4	96.1	78.6	9.7	13.6	10.7
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°	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8	2252.8
2.5°	2242.2	2205.3	2136.4	2068.5	1982.1	1911.3	1863.8	1814.3	1763.8	1767.7	1779.4
5°	2203.3	2139.3	2003.5	1859.9	1722.1	1597.9	1475.7	1366.1	1321.4	1280.7	1282.6
7.5°	2164.5	2074.3	1875.4	1650.3	1441.7	1230.2	1076.9	950.8	883.9	833.4	818.9
10°	2147.1	2027.7	1758.0	1448.5	1152.6	921.7	724.7	621.9	542.3	517.1	523.9
12.5°	2154.8	2004.4	1652.3	1266.1	913.9	642.3	504.5	452.1	434.7	431.7	429.8
15°	2169.4	1988.0	1548.5	1064.3	671.4	477.3	424.0	414.3	412.3	410.4	411.4
17.5°	2188.8	1973.4	1437.8	875.1	515.2	417.2	401.7	396.8	395.8	395.8	395.8
20°	2208.2	1956.9	1314.6	706.3	429.8	393.9	384.2	381.3	380.3	380.3	379.4
22.5°	2230.5	1942.4	1189.5	555.0	395.8	377.4	368.7	366.7	365.8	364.8	364.8
25°	2262.5	1923.9	1056.6	454.1	374.5	361.9	353.2	351.2	350.2	346.4	347.3
27.5°	2305.2	1910.3	919.8	392.0	355.1	342.5	336.7	333.8	331.8	328.9	329.9
30°	2363.4	1898.7	774.2	358.0	332.8	322.1	316.3	314.3	312.4	309.5	309.5
32.5°	2464.3	1903.5	620.9	330.8	312.4	299.8	294.0	292.0	290.1	287.2	287.2
35°	2615.7	1931.7	496.7	307.6	288.2	275.5	269.7	269.7	266.8	262.9	262.0
37.5°	2863.1	2003.5	398.8	285.2	264.9	253.2	246.4	244.5	241.6	235.8	234.8
40°	3155.1	2115.1	335.7	262.9	243.5	231.9	226.1	220.2	212.5	206.7	205.7
42.5°	3521.9	2229.5	291.1	240.6	223.1	212.5	205.7	196.0	184.3	176.6	175.6
45°	3904.1	2334.3	261.0	220.2	203.7	195.0	187.3	171.7	157.2	147.5	146.5
47.5°	4189.4	2353.7	236.7	200.8	187.3	178.5	167.8	148.4	129.0	120.3	117.4
50°	4324.2	2259.6	211.5	181.4	170.8	161.1	147.5	125.2	103.8	93.1	91.2
52.5°	4371.8	2096.6	191.1	164.0	154.3	142.6	126.1	100.9	81.5	70.8	69.9
55°	4352.4	1890.9	172.7	147.5	134.9	121.3	104.8	80.5	60.2	51.4	49.5
57.5°	4250.5	1629.0	154.3	131.0	115.5	101.9	83.4	60.2	40.7	33.0	32.0
60°	3975.9	1271.9	135.8	112.5	98.0	83.4	66.0	42.7	25.2	18.4	18.4
62.5°	3512.2	944.0	118.4	94.1	82.5	66.9	46.6	27.2	13.6	9.7	8.7
65°	2934.9	696.6	99.0	79.6	68.9	52.4	33.0	16.5	6.8	2.9	1.9
67.5°	2048.1	429.8	82.5	65.0	56.3	37.8	20.4	6.8	2.9	0.0	0.0
70°	930.4	204.7	63.1	49.5	42.7	27.2	10.7	3.9	1.9	0.0	0.0
72.5°	289.1	107.7	44.6	35.9	29.1	17.5	5.8	2.9	1.9	0.0	0.0
75°	133.9	68.9	28.1	19.4	16.5	8.7	3.9	1.9	1.0	0.0	0.0
77.5°	99.9	53.4	16.5	10.7	8.7	5.8	2.9	1.9	1.0	0.0	0.0
80°	87.3	27.2	9.7	6.8	4.9	3.9	1.9	1.0	0.0	0.0	0.0
82.5°	78.6	13.6	5.8	3.9	2.9	1.9	1.0	1.0	0.0	0.0	0.0
85°	42.7	7.8	3.9	2.9	1.9	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.9	2.9	1.9	1.9	1.0	1.0	1.0	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)