

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: P455779

Luminaire Tested: **GALN-SA7A-727-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19558 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

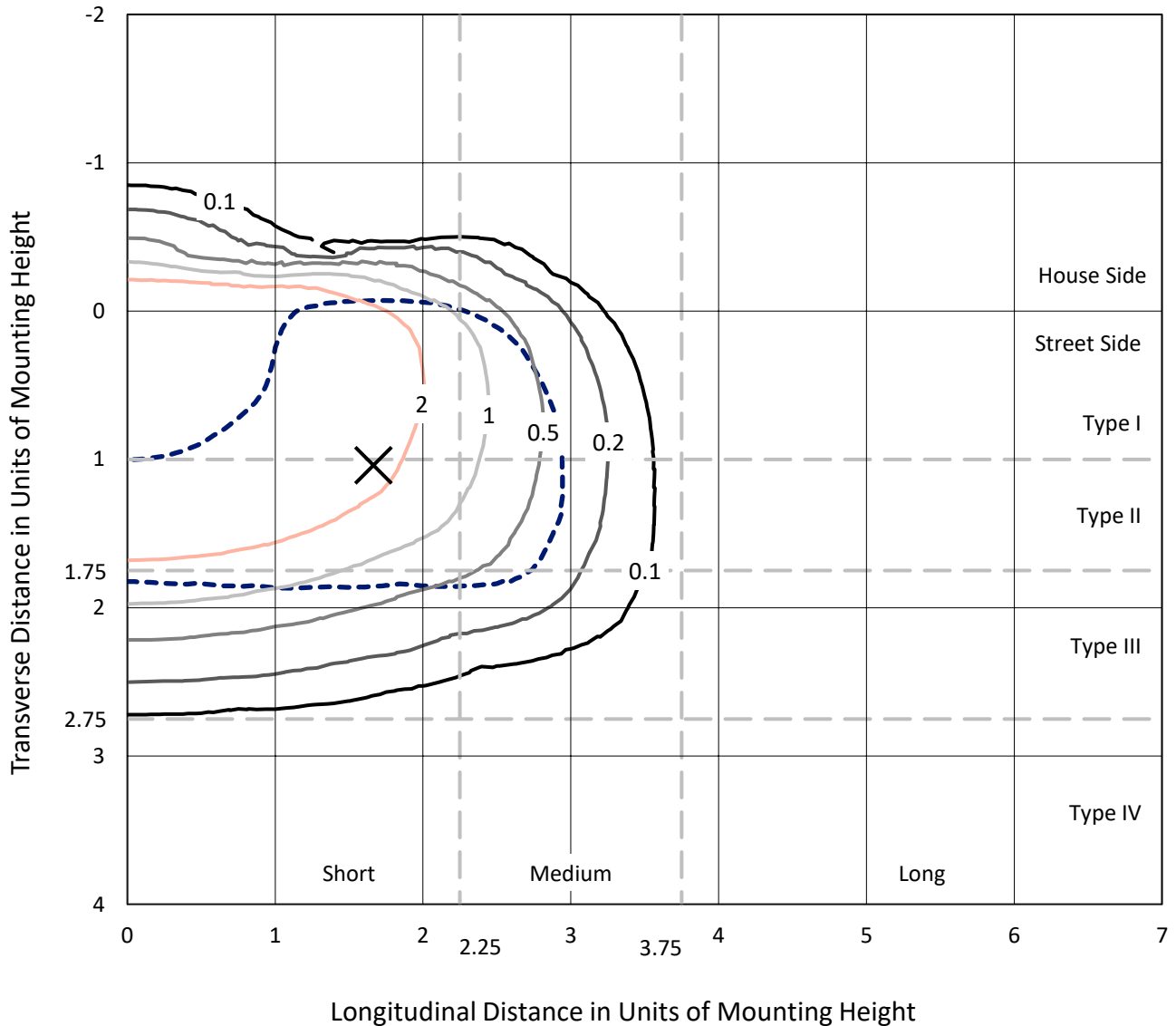
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455779  
 CATALOG NUMBER: GALN-SA7A-727-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

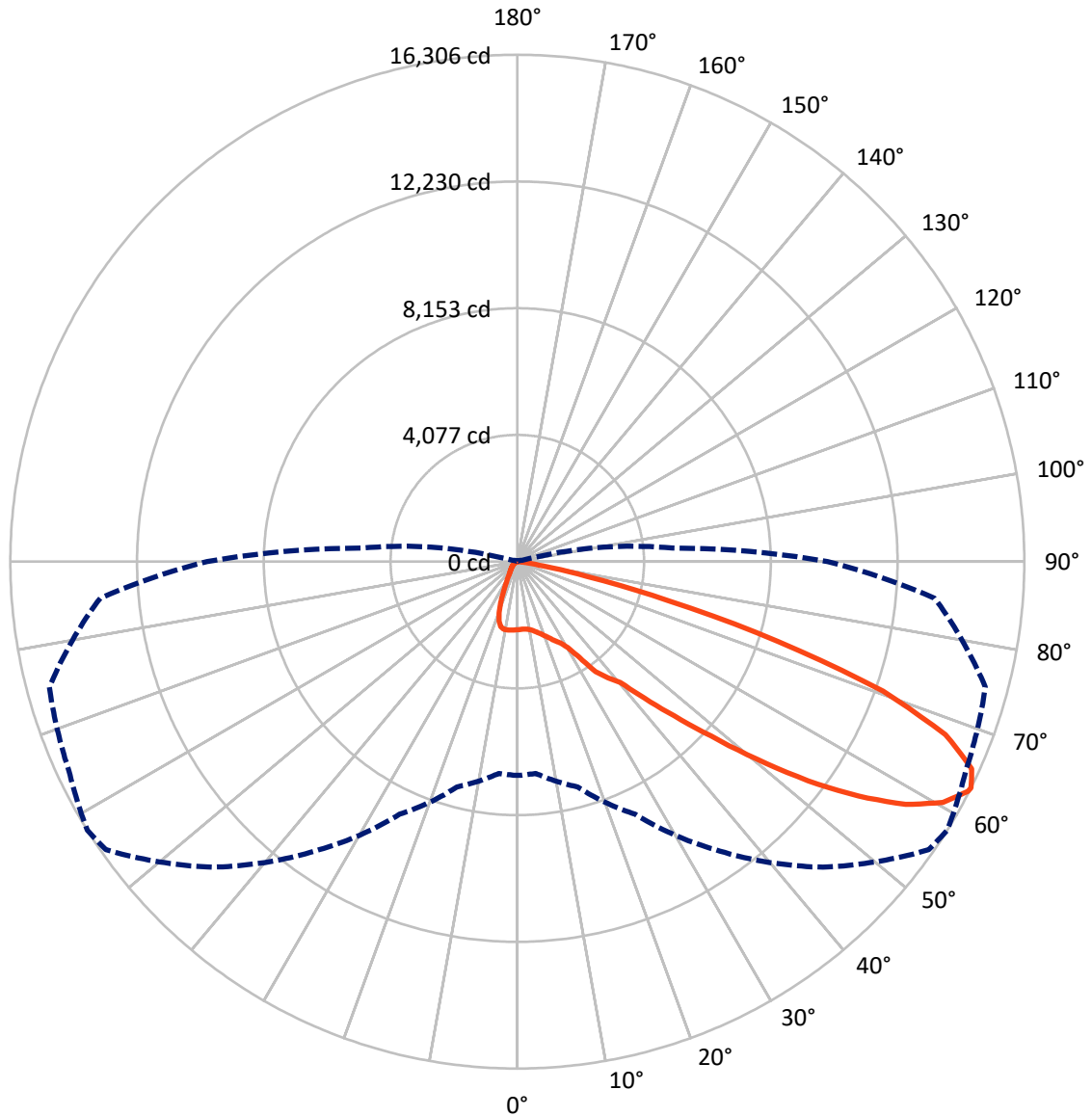
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P455779  
CATALOG NUMBER: GALN-SA7A-727-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P455779

CATALOG NUMBER: GALN-SA7A-727-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2025.1	0.0	2025.1
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	17532.9	0.0	17532.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	19558.0	0.0	19558.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.0	1.0
10°-20°	558.3	2.9
20°-30°	968.9	5.0
30°-40°	1780.5	9.1
40°-50°	3351.8	17.1
50°-60°	5732.9	29.3
60°-70°	5489.3	28.1
70°-80°	1399.8	7.2
80°-90°	71.6	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°	19558.0	100.0
0°-180°	19558.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455779

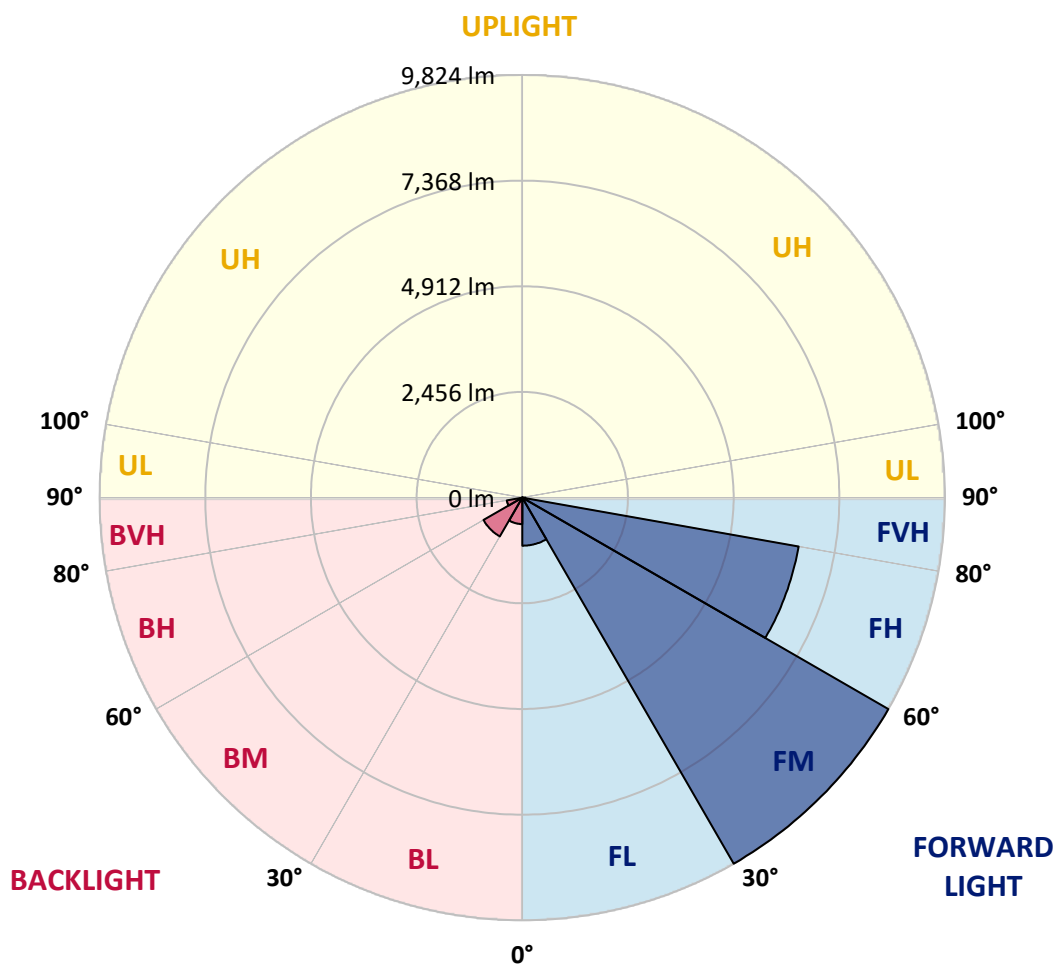
CATALOG NUMBER: GALN-SA7A-727-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.0	5.7			
FM (30°-60°)	9823.6	50.2			
FH (60°-80°)	6522.5	33.3			G3/7500
FVH (80°-90°)	68.8	0.4			G1/100
BL (0°-30°)	614.2	3.1	B2/1000		
BM (30°-60°)	1041.6	5.3	B2/2500		
BH (60°-80°)	366.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	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-G3**

Type III Short





REPORT NUMBER: P455779

CATALOG NUMBER: GALN-SA7A-727-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2189.6	2189.6	2189.6	2189.6	2189.6	2189.6	2189.6	2189.6	2189.6	2189.6	2189.6
2.5°	2135.1	2142.5	2149.8	2152.8	2163.1	2173.4	2180.8	2179.3	2191.1	2197.0	2197.0
5°	2049.7	2049.7	2068.8	2086.5	2116.0	2145.4	2173.4	2179.3	2201.4	2222.0	2229.4
7.5°	1977.6	1982.0	1996.7	2029.1	2068.8	2120.4	2176.3	2189.6	2227.9	2273.5	2292.7
10°	1943.7	1946.6	1965.8	1999.6	2049.7	2120.4	2198.4	2223.5	2282.4	2354.5	2381.0
12.5°	1936.3	1940.7	1959.9	1998.2	2055.6	2141.0	2247.0	2273.5	2358.9	2451.7	2491.5
15°	1949.6	1952.5	1971.7	2012.9	2076.2	2177.8	2311.8	2348.6	2450.2	2557.7	2609.3
17.5°	1996.7	1993.8	2007.0	2040.9	2111.6	2223.5	2389.9	2434.0	2553.3	2700.5	2734.4
20°	2197.0	2177.8	2166.0	2136.6	2164.6	2288.3	2484.1	2548.9	2696.1	2846.3	2869.9
22.5°	2628.4	2585.7	2501.8	2386.9	2298.6	2376.6	2597.5	2672.6	2862.5	3009.8	3009.8
25°	3177.6	3123.2	3039.2	2788.9	2572.4	2522.4	2725.6	2819.8	3043.6	3192.4	3143.8
27.5°	3865.3	3822.6	3659.1	3367.6	3036.3	2777.1	2874.3	2961.2	3204.1	3383.8	3282.2
30°	4424.8	4404.2	4270.2	4009.6	3644.4	3266.0	3151.1	3208.6	3417.7	3625.3	3520.7
32.5°	4897.5	4897.5	4760.6	4517.6	4176.0	3840.3	3620.9	3662.1	3862.3	4102.4	3908.0
35°	5417.3	5399.6	5289.2	5058.0	4675.2	4379.2	4289.4	4345.3	4526.4	4704.6	4226.0
37.5°	5963.6	5957.7	5842.8	5619.0	5306.9	4934.3	4723.8	4738.5	4831.2	4940.2	4598.6
40°	6557.0	6565.8	6415.6	6277.2	5982.7	5601.4	5197.9	5105.1	5192.0	5499.8	5286.2
42.5°	7257.9	7237.3	7172.5	6984.0	6747.0	6518.7	6034.3	6000.4	6077.0	6406.8	6175.6
45°	8072.2	8101.6	7989.7	7885.2	7726.2	7536.2	7131.3	7072.4	7156.3	7668.7	7340.4
47.5°	8888.0	8860.0	8932.1	8913.0	8998.4	8857.0	8499.2	8378.5	8580.2	9066.1	8583.1
50°	9509.3	9540.3	9690.5	9909.9	10276.5	10356.0	10012.9	9971.7	10061.5	10373.7	9694.9
52.5°	9912.8	10015.9	10251.5	10815.4	11476.6	11990.5	11729.9	11707.8	11671.0	11754.9	10758.0
55°	10176.4	10280.9	10588.7	11419.2	12557.4	13392.3	13405.6	13311.3	13068.4	13008.0	11751.9
57.5°	10014.4	10035.0	10473.8	11584.1	13156.7	14392.1	14825.0	14730.8	14281.7	14053.5	12629.6
60°	9001.3	9044.0	9655.1	10959.7	12896.1	14719.0	15766.0	15723.3	15231.4	14973.8	13312.8
62.5°	7206.4	7330.1	7958.8	9413.6	11684.2	14168.3	16147.3	16268.1	15885.2	15530.4	13527.8
63°	6876.5	6836.8	7500.9	8963.1	11363.2	13895.9	16153.2	16306.4	15914.7	15583.4	13468.9
65°	5090.4	5209.7	5641.1	7068.0	9456.3	12628.1	15789.5	16060.5	15805.7	15349.2	12816.6
67.5°	2858.1	2852.2	3329.3	4625.1	6618.8	9905.4	14277.3	14850.1	14797.1	13773.7	10624.0
70°	1398.9	1421.0	1616.8	2397.2	3838.8	6833.8	11863.9	12482.3	12501.4	10818.4	7346.3
72.5°	633.2	643.5	783.4	1167.7	1973.1	3638.5	8175.3	8765.7	8656.8	6894.2	4056.7
75°	334.3	356.3	431.4	587.5	951.2	1500.5	4446.9	5018.2	4790.0	3149.7	1493.1
77.5°	247.4	254.7	293.0	374.0	509.5	584.6	1918.7	2282.4	2138.1	1139.7	494.8
80°	181.1	187.0	217.9	265.0	321.0	297.4	723.0	829.0	743.6	387.3	151.7
82.5°	110.4	111.9	159.0	197.3	201.7	166.4	238.5	256.2	268.0	217.9	82.5
85°	39.8	50.1	107.5	142.8	119.3	83.9	100.1	110.4	120.7	138.4	48.6
87.5°	4.4	5.9	51.5	69.2	33.9	30.9	36.8	41.2	44.2	51.5	23.6
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: P455779  
 CATALOG NUMBER: GALN-SA7A-727-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2189.6	2189.6	2189.6	2189.6	2189.6	2189.6	2189.6	2189.6	2189.6	2189.6	2189.6
2.5°	2202.8	2208.7	2204.3	2197.0	2195.5	2191.1	2182.2	2182.2	2182.2	2185.2	2182.2
5°	2235.2	2239.7	2229.4	2214.6	2198.4	2177.8	2155.7	2142.5	2141.0	2138.1	2130.7
7.5°	2297.1	2303.0	2279.4	2244.1	2199.9	2149.8	2102.7	2058.5	2037.9	2021.7	2021.7
10°	2386.9	2392.8	2345.7	2282.4	2194.0	2092.4	1980.5	1878.9	1799.4	1762.6	1753.7
12.5°	2494.4	2497.3	2419.3	2308.9	2163.1	1967.2	1728.7	1506.4	1351.7	1281.1	1273.7
15°	2612.2	2591.6	2488.5	2319.2	2074.7	1709.6	1297.3	1024.9	864.4	817.2	834.9
17.5°	2731.5	2693.2	2541.5	2303.0	1876.0	1297.3	871.7	699.4	649.4	636.1	636.1
20°	2843.4	2790.4	2579.8	2232.3	1531.4	893.8	646.4	605.2	596.4	587.5	589.0
22.5°	2955.3	2874.3	2613.7	2074.7	1141.2	639.1	578.7	565.4	553.7	541.9	540.4
25°	3064.3	2952.3	2626.9	1783.2	777.5	549.2	528.6	511.0	487.4	474.1	471.2
27.5°	3177.6	3046.6	2618.1	1415.1	566.9	491.8	471.2	446.2	418.2	394.6	394.6
30°	3395.6	3226.2	2587.2	1017.5	477.1	432.9	406.4	366.7	335.7	312.2	310.7
32.5°	3693.0	3460.4	2481.1	715.6	424.1	381.4	341.6	297.4	265.0	247.4	247.4
35°	3958.1	3696.0	2282.4	527.2	381.4	331.3	282.7	240.0	215.0	203.2	198.8
37.5°	4361.5	4040.5	2008.5	428.5	340.1	287.1	237.1	197.3	176.7	167.9	167.9
40°	4966.7	4461.6	1672.7	375.5	300.4	244.4	197.3	166.4	150.2	139.9	139.9
42.5°	5717.7	4977.0	1332.6	337.2	263.6	210.6	164.9	141.4	126.6	119.3	117.8
45°	6663.0	5520.4	1026.3	301.9	234.1	179.6	139.9	119.3	104.5	100.1	101.6
47.5°	7649.6	5998.9	795.1	270.9	203.2	151.7	119.3	103.1	92.8	86.9	86.9
50°	8491.9	6328.8	603.7	235.6	179.6	128.1	104.5	92.8	83.9	81.0	79.5
52.5°	9195.7	6424.5	462.4	204.7	157.6	110.4	92.8	83.9	76.6	72.2	72.2
55°	9795.0	6340.5	362.2	172.3	132.5	95.7	82.5	75.1	66.3	61.8	60.4
57.5°	10145.5	6071.1	276.8	142.8	107.5	79.5	72.2	63.3	53.0	45.6	45.6
60°	10322.2	5679.4	212.0	117.8	82.5	63.3	58.9	47.1	36.8	30.9	29.4
62.5°	10110.1	5159.6	160.5	92.8	61.8	47.1	39.8	33.9	23.6	17.7	17.7
63°	9979.1	5009.4	154.6	88.3	57.4	44.2	36.8	30.9	20.6	16.2	14.7
65°	9097.0	4354.2	126.6	70.7	45.6	30.9	25.0	22.1	14.7	7.4	5.9
67.5°	7224.0	3330.8	100.1	53.0	32.4	22.1	14.7	13.3	4.4	0.0	0.0
70°	4884.3	2151.3	78.0	38.3	22.1	13.3	7.4	5.9	1.5	0.0	0.0
72.5°	2547.4	1102.9	60.4	28.0	13.3	8.8	4.4	1.5	0.0	0.0	0.0
75°	901.2	375.5	44.2	17.7	8.8	4.4	1.5	0.0	0.0	0.0	0.0
77.5°	272.4	139.9	28.0	13.3	5.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	95.7	51.5	16.2	8.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	47.1	25.0	10.3	7.4	4.4	1.5	0.0	0.0	0.0	0.0	0.0
85°	26.5	16.2	8.8	7.4	4.4	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	19.1	11.8	8.8	7.4	5.9	2.9	1.5	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)