

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: P451620

Luminaire Tested: **GALN-SA2C-730-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451620  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12762 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

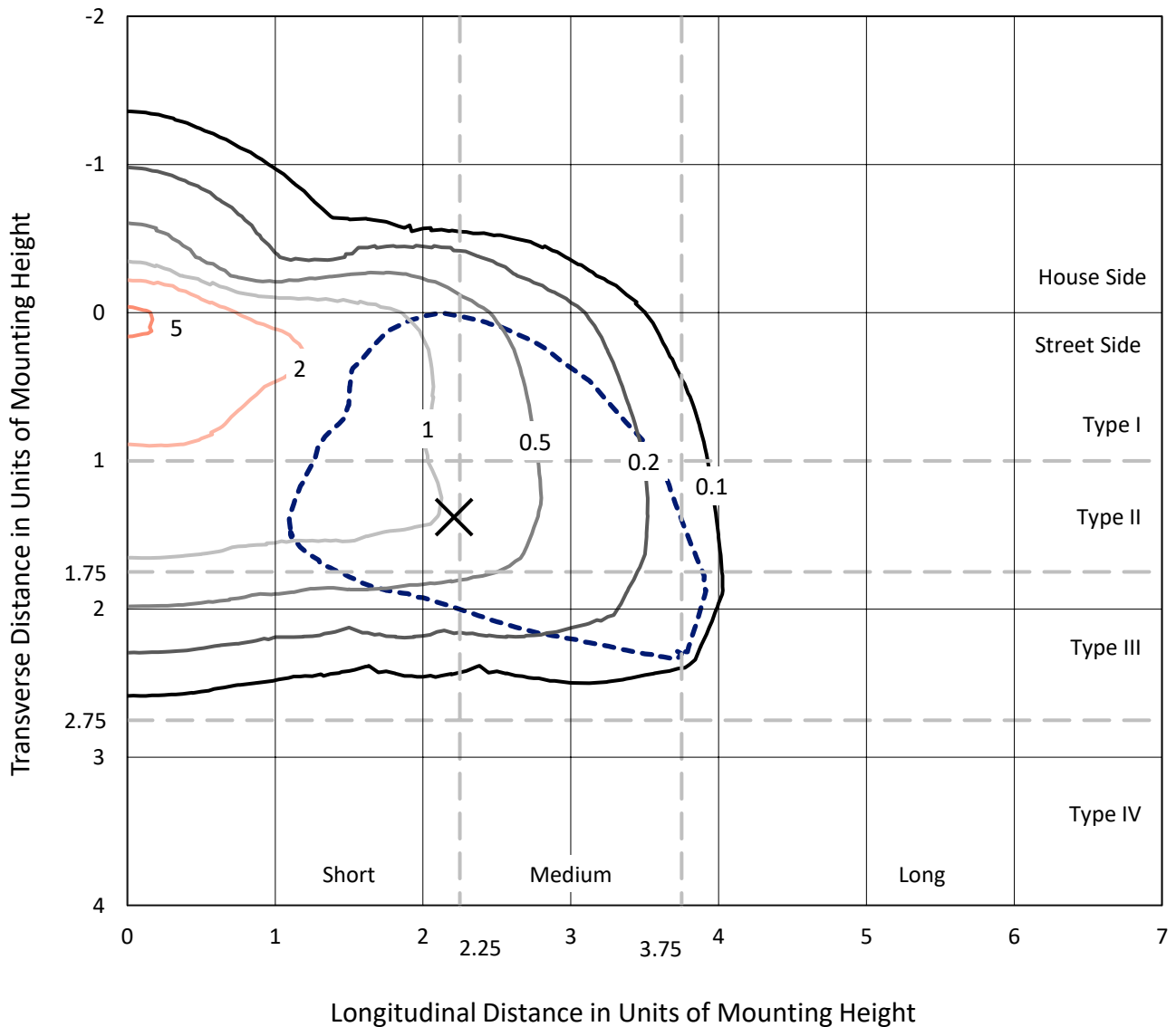
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

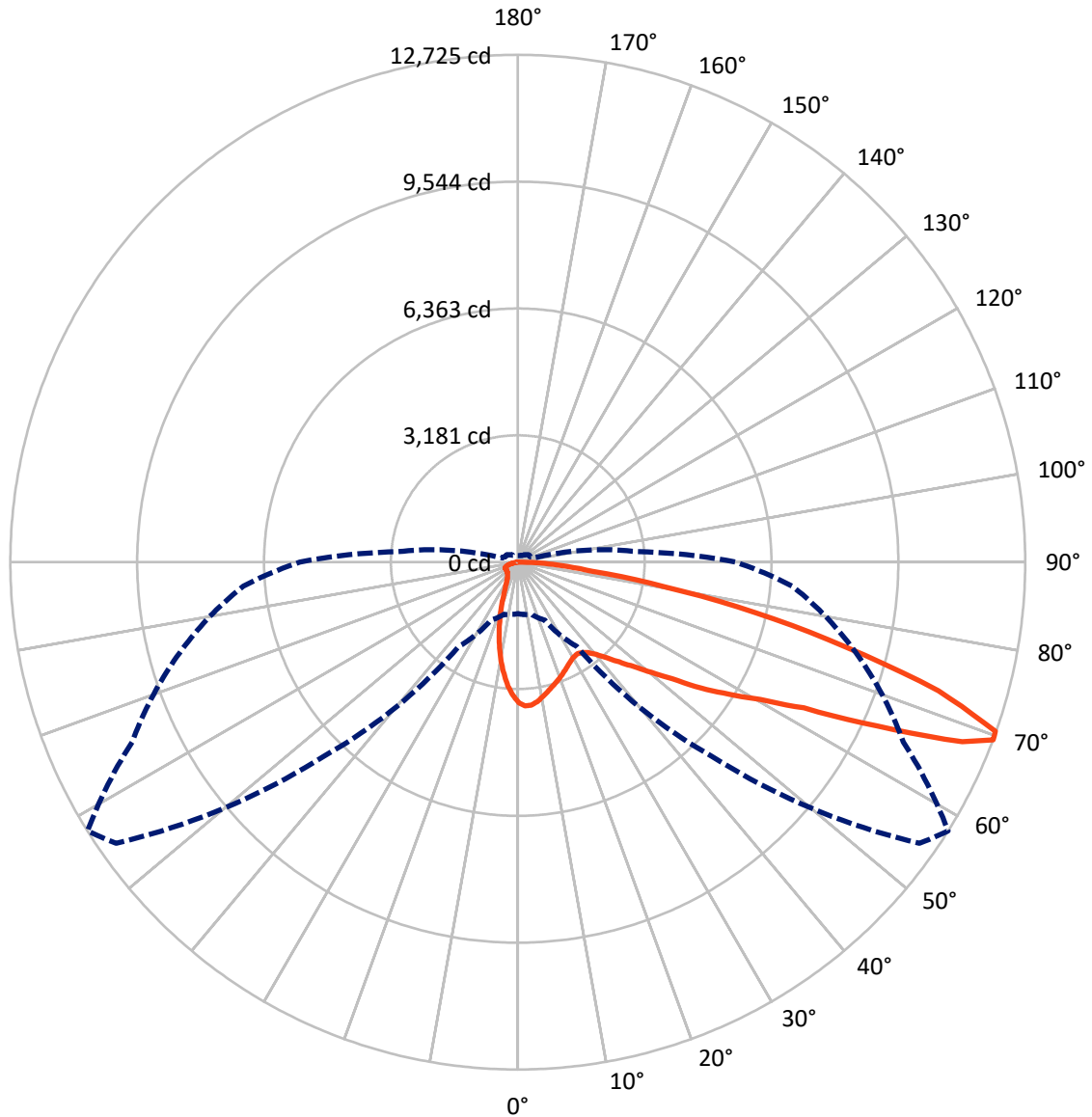
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1870.3	0.0	1870.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	10891.7	0.0	10891.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	12762.0	0.0	12762.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.5	2.3
10°-20°	657.7	5.2
20°-30°	849.7	6.7
30°-40°	1103.6	8.6
40°-50°	1604.5	12.6
50°-60°	2560.2	20.1
60°-70°	3420.1	26.8
70°-80°	1971.5	15.4
80°-90°	295.3	2.3
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°	12762.0	100.0
0°-180°	12762.0	100.0

**Coefficient of Utilization**



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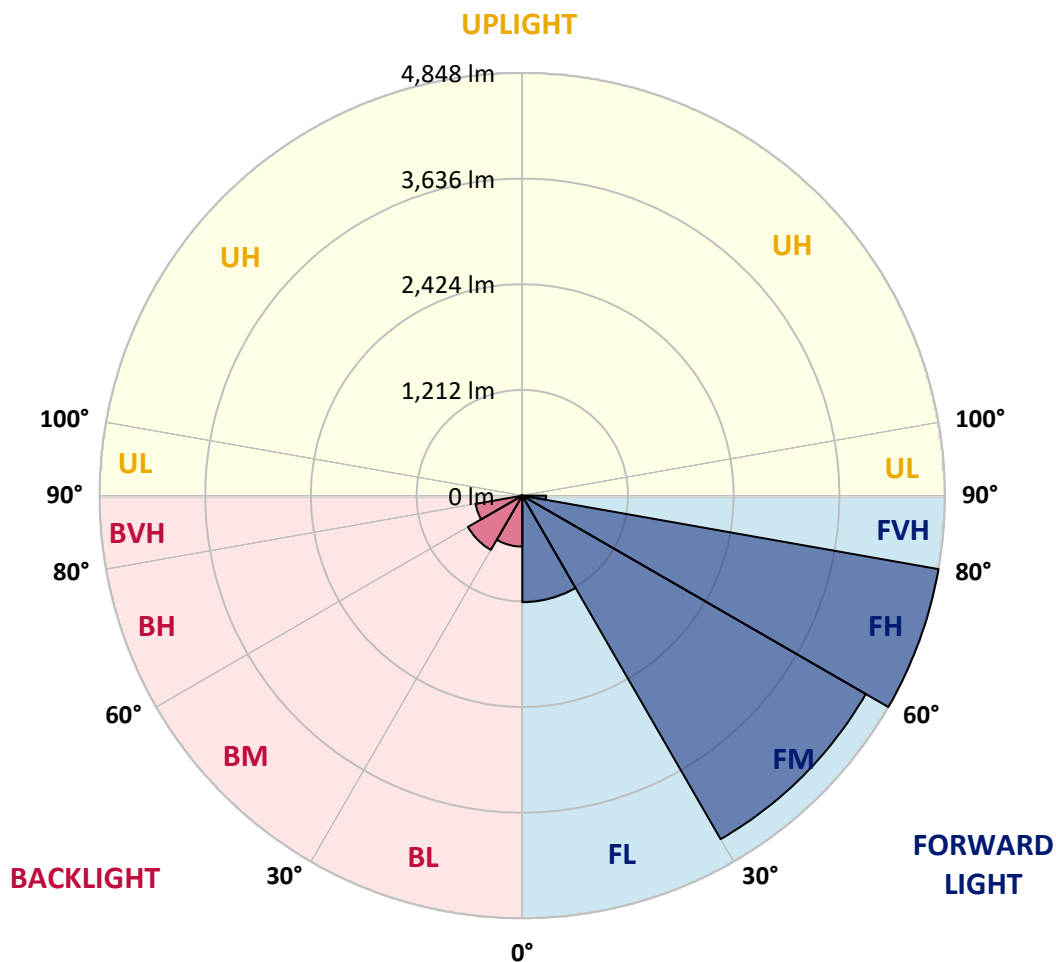
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1222.3	9.6			
FM	(30°-60°)	4549.0	35.6			
FH	(60°-80°)	4847.8	38.0			G2/5000
FVH	(80°-90°)	272.7	2.1			G3/500
BL	(0°-30°)	584.6	4.6	B2/1000		
BM	(30°-60°)	719.2	5.6	B1/1000		
BH	(60°-80°)	543.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	22.6	0.2			G1/100
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3526.7	3526.7	3526.7	3526.7	3526.7	3526.7	3526.7	3526.7	3526.7	3526.7	3526.7
2.5°	3657.6	3667.6	3664.7	3661.2	3655.5	3639.8	3614.2	3609.9	3593.6	3558.7	3515.3
5°	3601.4	3609.9	3610.7	3615.6	3622.8	3619.9	3601.4	3599.3	3575.1	3528.1	3455.5
7.5°	3408.5	3419.9	3444.8	3472.6	3497.5	3521.0	3526.7	3530.2	3515.3	3461.2	3364.4
10°	3191.4	3202.8	3214.2	3255.5	3316.7	3375.1	3423.5	3429.9	3433.4	3383.6	3265.5
12.5°	2950.9	2974.4	2998.6	3059.8	3141.6	3233.4	3318.8	3332.4	3356.6	3318.8	3180.1
15°	2746.6	2770.8	2805.7	2860.5	2959.4	3091.8	3212.1	3234.1	3281.8	3262.6	3100.3
17.5°	2605.0	2613.5	2637.7	2700.3	2807.1	2946.6	3107.5	3151.6	3227.7	3222.8	3032.0
20°	2493.2	2503.9	2518.8	2557.3	2668.3	2815.6	3009.9	3066.9	3170.1	3187.2	2964.4
22.5°	2446.2	2454.1	2451.9	2472.6	2548.0	2696.1	2911.0	2978.6	3118.8	3163.0	2901.8
25°	2449.1	2456.2	2445.5	2440.6	2485.4	2590.7	2807.8	2893.9	3077.6	3146.6	2844.8
27.5°	2496.8	2501.8	2481.8	2461.9	2465.5	2525.3	2722.4	2817.8	3042.7	3153.7	2797.1
30°	2560.8	2570.1	2557.3	2533.1	2506.7	2509.6	2667.6	2761.5	3026.3	3178.6	2774.4
32.5°	2643.4	2651.9	2646.2	2627.0	2592.9	2555.1	2654.1	2740.9	3027.7	3229.2	2769.4
35°	2730.2	2747.3	2756.6	2755.1	2727.4	2661.9	2707.5	2779.3	3061.9	3313.9	2798.6
37.5°	2828.5	2842.7	2882.5	2908.2	2882.5	2806.4	2827.7	2877.6	3137.3	3436.3	2862.6
40°	2923.8	2945.2	3003.5	3083.3	3073.3	3006.4	3011.4	3044.1	3270.4	3618.5	2987.9
42.5°	3023.5	3049.1	3150.9	3269.0	3292.5	3240.6	3254.1	3283.3	3459.8	3871.2	3202.8
45°	3151.6	3182.2	3307.5	3454.8	3547.3	3515.3	3553.7	3568.0	3713.1	4200.0	3486.1
47.5°	3316.7	3352.3	3506.7	3690.4	3821.3	3850.5	3917.4	3908.9	4027.0	4589.3	3853.4
50°	3595.0	3614.9	3760.8	3948.0	4128.1	4259.8	4332.4	4345.9	4416.3	4967.9	4264.0
52.5°	3926.0	3943.7	4049.1	4212.8	4438.4	4717.4	4896.8	4852.6	4869.7	5429.1	4744.5
55°	4298.2	4328.1	4395.0	4503.9	4796.4	5207.1	5567.2	5577.9	5388.6	5870.4	5205.0
57.5°	4586.4	4637.0	4751.6	4906.7	5277.5	5751.6	6235.6	6242.7	6000.7	6341.6	5713.1
60°	4441.3	4501.0	4763.0	5140.9	5908.9	6701.7	7034.1	6993.6	6596.4	6878.3	6333.1
62.5°	3814.9	3825.6	4206.4	4797.1	6103.2	7972.9	8222.7	8051.2	7391.4	7558.7	6962.9
65°	2469.0	2538.8	2840.6	3668.3	5464.7	8678.2	10305.3	9908.8	8506.0	8330.9	7490.3
67.5°	1558.7	1540.9	1666.2	2094.6	3758.7	8056.9	12082.5	12019.9	9963.6	8818.5	7364.4
69°	1292.5	1312.4	1355.2	1605.7	2586.5	6879.0	12292.5	12725.2	10670.4	8780.0	6906.7
70°	1172.2	1181.5	1226.3	1423.5	1995.7	5761.5	11948.0	12706.0	10948.0	8619.2	6575.1
72.5°	930.2	929.5	1006.4	1184.3	1491.8	3288.9	9810.6	11031.3	10637.7	7870.4	5432.7
75°	706.8	718.1	802.8	1002.1	1374.4	1797.1	6846.2	8495.3	8496.0	6216.3	3390.0
77.5°	509.6	516.7	615.7	841.3	1294.7	1456.9	4560.1	6093.2	5728.1	2848.4	1065.5
80°	333.8	338.1	413.5	666.2	1167.3	1374.4	2703.9	3729.5	2701.8	755.9	352.3
82.5°	182.9	204.3	252.7	431.3	936.6	1269.7	1643.4	1887.5	1013.5	336.7	183.6
85°	91.8	97.5	142.3	252.0	612.1	1050.5	1144.5	1082.6	523.1	167.3	95.4
87.5°	27.0	34.2	59.1	97.5	248.4	547.3	637.0	571.5	201.4	60.5	19.9
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°	3526.7	3526.7	3526.7	3526.7	3526.7	3526.7	3526.7	3526.7	3526.7	3526.7	3526.7
2.5°	3497.5	3484.7	3427.7	3376.5	3329.5	3279.7	3237.7	3200.7	3204.3	3205.0	3167.2
5°	3417.8	3388.6	3280.4	3179.3	3093.9	2985.7	2893.2	2833.4	2803.5	2763.7	2777.9
7.5°	3309.6	3253.4	3103.2	2935.2	2777.9	2637.7	2485.4	2380.8	2313.9	2249.1	2257.6
10°	3197.8	3107.5	2889.0	2666.9	2463.3	2239.1	2044.8	1878.3	1754.4	1708.2	1677.6
12.5°	3083.3	2964.4	2686.8	2391.4	2110.3	1842.0	1566.5	1387.9	1251.2	1178.6	1187.9
15°	2978.6	2834.1	2476.1	2116.0	1750.9	1431.3	1156.6	986.5	891.1	871.2	882.6
17.5°	2881.8	2692.5	2279.0	1848.4	1422.1	1073.3	869.0	772.9	734.5	723.8	723.1
20°	2782.2	2572.2	2057.6	1562.3	1108.2	832.0	713.2	668.3	661.2	665.5	666.2
22.5°	2681.1	2423.5	1829.9	1278.3	882.6	680.4	623.5	611.4	617.1	627.0	628.5
25°	2587.9	2292.5	1610.7	1029.2	704.6	597.9	570.1	570.1	582.9	597.9	598.6
27.5°	2511.0	2165.8	1392.2	817.1	590.0	538.1	528.8	533.8	551.6	563.0	563.7
30°	2447.7	2047.7	1185.8	654.8	518.9	490.4	488.3	496.8	509.6	520.3	521.0
32.5°	2400.0	1943.8	992.9	550.2	469.7	454.1	453.4	459.8	466.9	469.7	472.6
35°	2381.5	1857.6	816.4	484.0	437.0	427.0	427.0	426.3	429.2	430.6	432.0
37.5°	2396.4	1791.4	679.7	441.3	412.8	405.7	401.4	397.2	395.7	395.7	396.4
40°	2459.8	1756.6	577.9	413.5	395.7	385.1	377.2	372.2	367.3	368.7	370.1
42.5°	2594.3	1763.0	508.9	395.0	380.8	365.8	354.4	348.8	345.2	349.5	348.8
45°	2808.5	1827.0	464.8	382.2	365.8	346.6	335.9	330.2	330.2	336.7	338.8
47.5°	3108.2	1949.5	441.3	372.2	354.4	331.7	321.0	316.7	318.1	328.8	329.5
50°	3474.0	2162.3	437.0	367.3	348.8	321.0	308.9	304.6	308.2	319.6	321.0
52.5°	3877.6	2436.3	457.6	368.0	343.8	314.6	298.9	292.5	296.1	305.3	308.2
55°	4355.8	2779.3	511.0	370.8	336.7	311.0	291.8	277.6	281.8	288.3	289.0
57.5°	4844.1	3212.1	605.0	371.5	331.0	304.6	279.7	261.2	261.2	265.5	267.6
60°	5440.5	3683.3	728.8	372.2	331.7	295.4	263.3	242.7	239.9	242.0	242.7
62.5°	6032.7	4077.6	749.5	370.1	338.8	286.1	245.6	224.2	219.2	218.5	217.1
65°	6293.9	4004.2	614.2	360.1	346.6	280.4	231.3	206.4	197.9	195.0	195.0
67.5°	5868.3	3387.2	461.9	346.6	341.6	274.7	217.8	191.5	181.5	175.8	175.8
69°	5468.3	3012.8	414.9	337.4	328.8	265.5	209.3	183.6	171.5	165.1	163.0
70°	5159.4	2755.1	395.0	329.5	316.7	254.8	202.8	177.9	164.4	157.3	155.9
72.5°	4117.4	2161.6	345.9	299.6	269.7	214.2	180.1	160.1	147.3	139.5	137.4
75°	2372.9	1171.5	286.8	260.5	217.1	166.5	152.3	139.5	129.5	122.4	120.3
77.5°	730.2	452.7	207.8	205.7	159.4	128.8	121.7	116.7	109.6	101.8	100.4
80°	307.5	230.6	140.9	138.8	106.0	89.7	87.5	86.8	84.0	77.6	75.4
82.5°	168.7	130.2	98.2	85.4	64.1	52.0	54.1	54.8	52.7	46.3	42.0
85°	82.6	71.2	47.7	38.4	29.2	18.5	17.8	21.4	19.9	14.2	15.7
87.5°	16.4	19.9	12.8	5.7	2.8	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)