

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: P451618

Luminaire Tested: **GALN-SA2C-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
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-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12852 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

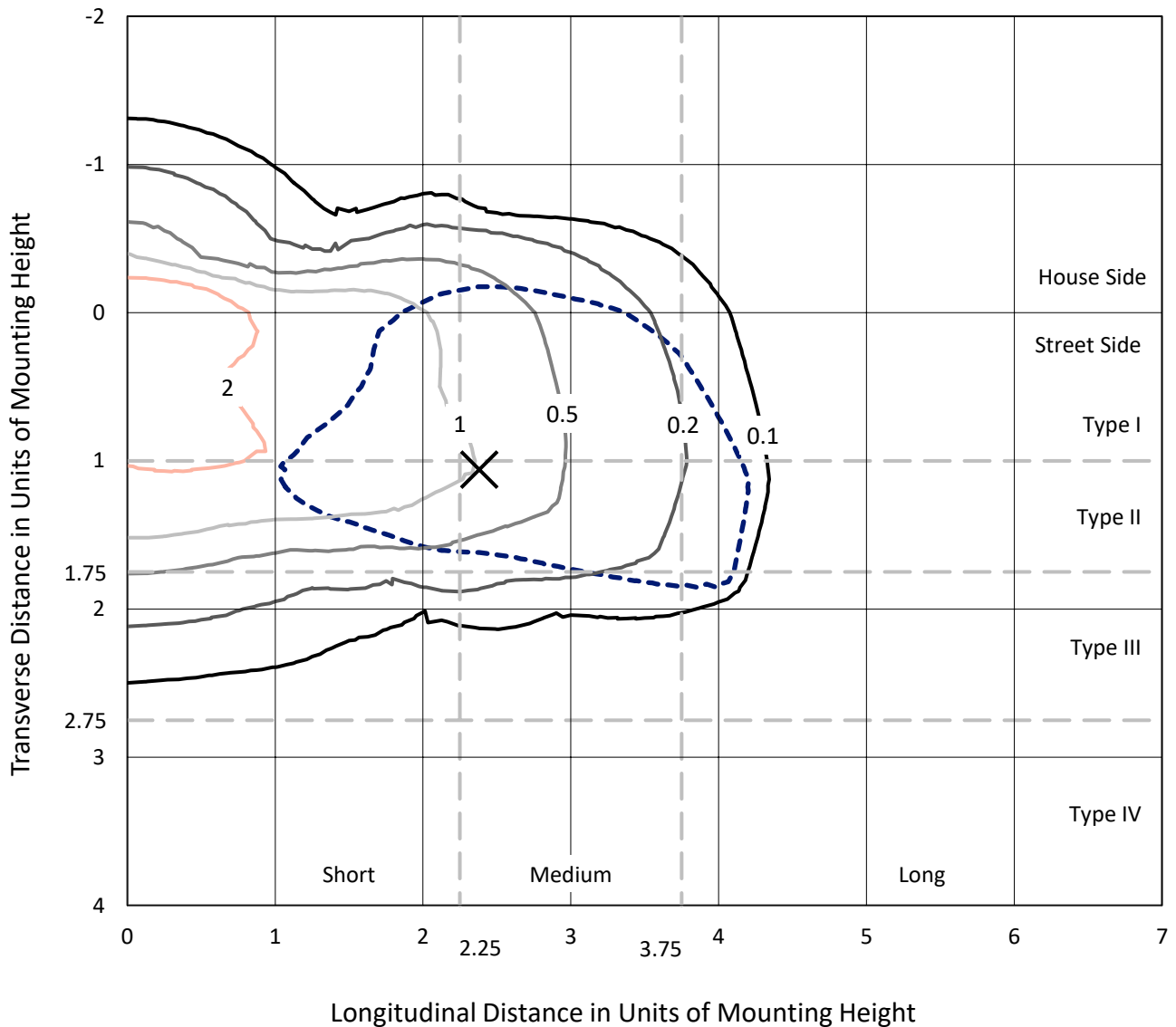
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P451618  
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### Iso-Footcandle Lines of Horizontal Illumination

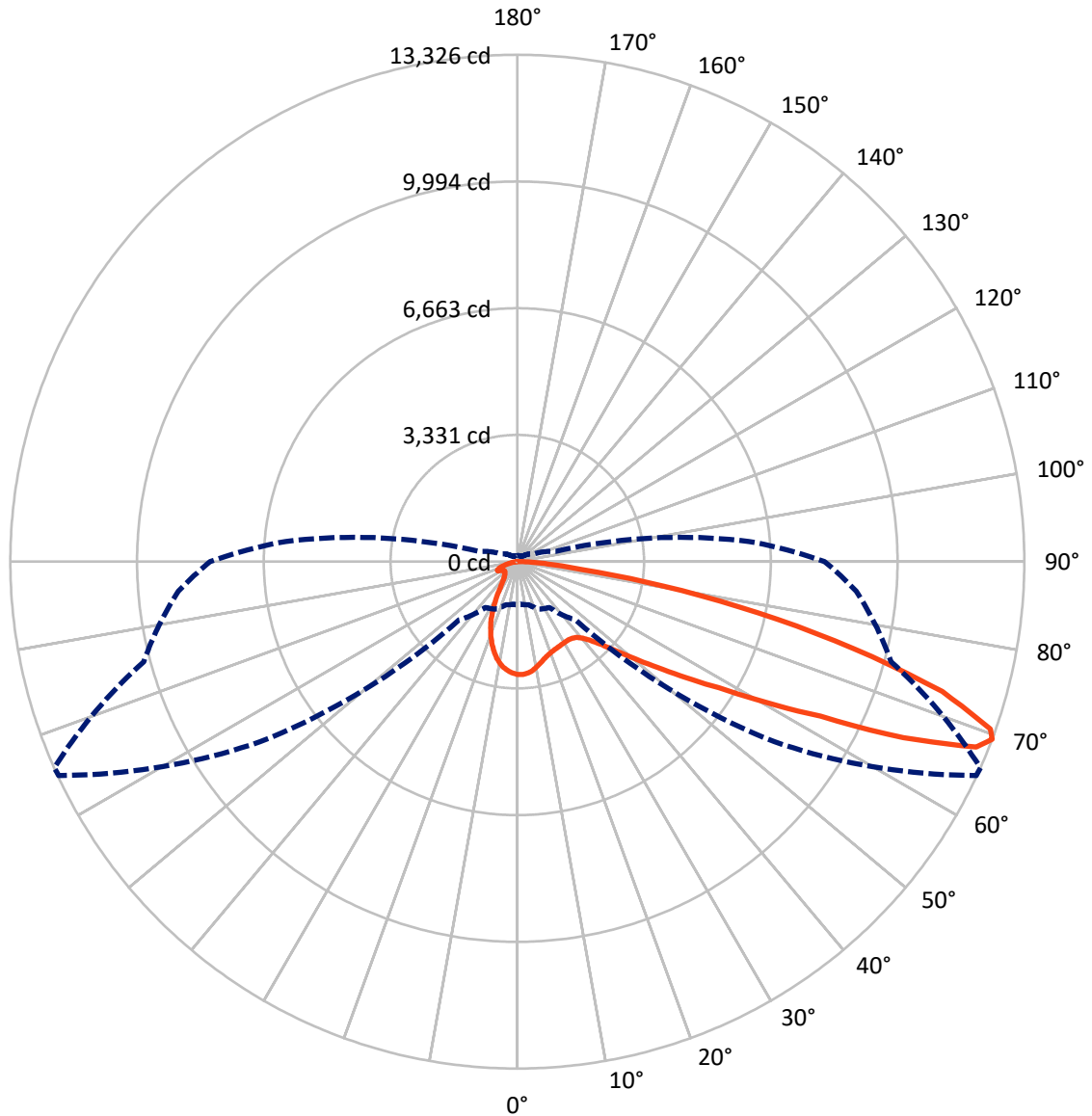
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P451618  
CATALOG NUMBER: GALN-SA2C-730-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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CATALOG NUMBER: GALN-SA2C-730-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2417.0	0.0	2417.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	10435.0	0.0	10435.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	12852.0	0.0	12852.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.7	2.0
10°-20°	611.3	4.8
20°-30°	832.2	6.5
30°-40°	1118.3	8.7
40°-50°	1669.8	13.0
50°-60°	2656.2	20.7
60°-70°	3266.9	25.4
70°-80°	2125.6	16.5
80°-90°	313.9	2.4
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°	12852.0	100.0
0°-180°	12852.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P451618

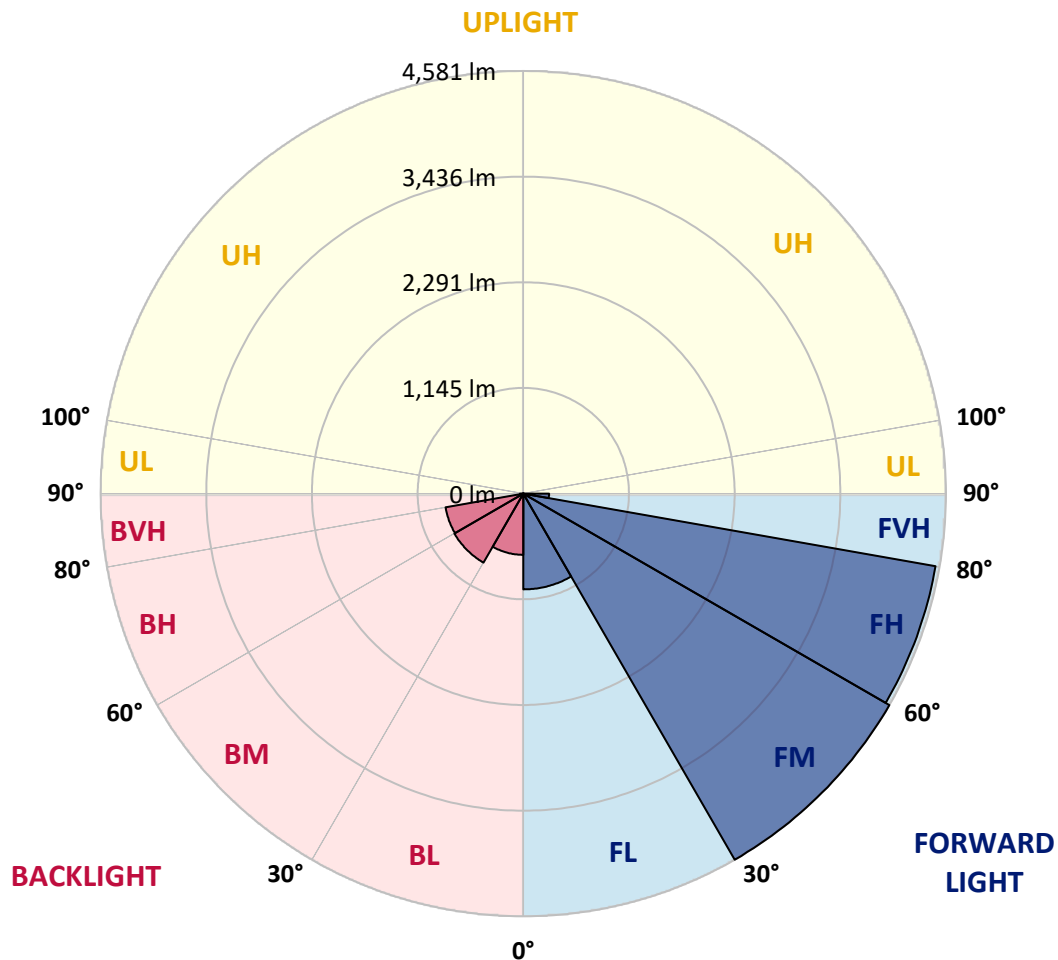
CATALOG NUMBER: GALN-SA2C-730-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.8	8.1			
FM (30°-60°)	4581.4	35.6			
FH (60°-80°)	4536.8	35.3			G2/5000
FVH (80°-90°)	279.1	2.2			G3/500
BL (0°-30°)	663.5	5.2	B2/1000		
BM (30°-60°)	863.0	6.7	B1/1000		
BH (60°-80°)	855.7	6.7	B2/1000		G2/1000
BVH (80°-90°)	34.8	0.3			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 Medium





REPORT NUMBER: P451618

CATALOG NUMBER: GALN-SA2C-730-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2967.9	2967.9	2967.9	2967.9	2967.9	2967.9	2967.9	2967.9	2967.9	2967.9	2967.9
2.5°	2864.0	2875.4	2888.2	2902.4	2929.5	2944.4	2955.1	2967.2	2968.6	2975.0	2970.0
5°	2652.6	2666.1	2685.3	2712.4	2752.9	2816.3	2881.8	2935.1	2941.6	2971.4	2980.0
7.5°	2476.1	2483.9	2499.6	2543.0	2600.6	2671.1	2766.5	2874.6	2890.3	2961.5	2986.4
10°	2332.3	2340.1	2358.6	2403.5	2460.4	2548.7	2653.3	2795.6	2808.5	2930.9	2987.8
12.5°	2224.8	2232.0	2251.9	2296.0	2361.5	2444.1	2559.4	2710.2	2728.7	2890.3	2974.3
15°	2143.0	2156.5	2172.9	2209.2	2278.2	2357.9	2469.7	2632.0	2646.9	2847.6	2965.0
17.5°	2108.1	2114.5	2125.9	2159.4	2209.9	2288.2	2400.6	2570.7	2588.5	2817.7	2962.9
20°	2109.5	2116.0	2118.1	2136.6	2172.9	2240.5	2351.5	2522.3	2543.7	2791.4	2966.5
22.5°	2157.9	2158.7	2150.8	2144.4	2158.7	2214.9	2316.7	2486.0	2511.0	2780.0	2969.3
25°	2232.7	2245.5	2234.1	2204.2	2177.9	2204.9	2303.1	2466.1	2489.6	2763.6	2965.7
27.5°	2353.7	2355.8	2346.5	2306.0	2237.7	2217.7	2297.4	2451.2	2471.1	2751.5	2948.0
30°	2515.9	2509.5	2501.0	2456.2	2348.7	2266.8	2309.5	2437.7	2458.3	2733.7	2926.6
32.5°	2680.3	2700.3	2692.4	2639.8	2500.3	2362.2	2348.7	2436.2	2453.3	2720.2	2903.1
35°	2854.7	2864.0	2901.0	2873.9	2730.9	2516.7	2422.0	2458.3	2471.8	2720.9	2886.7
37.5°	2991.4	3016.3	3103.1	3126.6	2992.1	2720.9	2540.9	2520.9	2526.6	2755.8	2893.2
40°	3156.5	3199.2	3310.9	3407.0	3318.8	2986.4	2743.0	2636.9	2644.1	2839.8	2935.1
42.5°	3365.7	3395.6	3545.8	3676.0	3661.8	3337.3	2987.8	2827.0	2830.5	3007.0	3052.6
45°	3610.6	3653.3	3822.0	4017.7	4051.1	3734.4	3341.5	3114.5	3112.4	3266.8	3271.8
47.5°	3923.7	3950.1	4117.3	4330.8	4466.1	4233.3	3770.7	3527.3	3504.5	3645.4	3604.9
50°	4212.0	4253.3	4379.9	4613.4	4950.0	4817.7	4335.1	4062.5	4009.1	4140.8	4072.5
52.5°	4333.0	4376.4	4483.1	4772.8	5365.0	5573.5	5051.8	4700.9	4612.0	4713.0	4688.1
55°	4123.0	4179.2	4278.9	4631.2	5547.2	6445.4	6018.3	5439.0	5374.2	5330.8	5337.9
57.5°	3558.6	3612.0	3746.5	4135.1	5329.4	7078.1	7398.4	6387.7	6248.9	6048.9	6083.1
60°	2708.8	2742.3	2812.0	3242.6	4683.8	7242.5	8965.6	7587.0	7498.7	6764.2	6788.4
62.5°	1923.8	1961.5	2009.9	2224.8	3429.1	6779.2	10192.6	9261.6	8946.4	7505.1	7481.6
65°	1562.2	1536.6	1595.0	1695.3	2012.0	5253.9	10468.7	11586.1	11152.0	8480.9	8154.9
67.5°	1284.7	1257.6	1315.3	1493.9	1530.2	3049.7	9473.7	13095.0	13008.2	9542.1	8838.9
69°	1137.3	1123.1	1173.6	1377.2	1469.0	2165.8	8253.1	13304.9	13325.6	10167.7	8944.2
70°	1024.9	1030.6	1079.7	1318.1	1441.2	1785.7	7053.9	13015.3	13190.4	10480.1	8830.3
72.5°	754.4	766.5	834.9	1091.8	1414.9	1515.3	4197.7	11368.3	11677.9	10498.6	8078.1
75°	527.4	521.7	582.2	822.0	1336.6	1501.7	2465.4	8791.9	9142.8	9074.5	6787.7
77.5°	345.2	354.4	402.8	580.8	1124.5	1490.3	1607.1	6237.5	6465.3	6068.9	4014.8
80°	243.4	242.7	269.7	396.4	834.1	1432.0	1316.0	3931.6	3873.9	2385.0	1190.7
82.5°	139.5	149.5	180.8	279.0	558.0	1260.5	1210.6	1880.4	1716.7	679.7	402.1
85°	77.6	81.1	107.5	168.7	326.0	949.4	1056.9	855.5	807.1	284.0	172.9
87.5°	24.9	27.0	44.8	85.4	148.0	448.4	598.6	395.0	364.4	102.5	69.7
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: P451618  
 CATALOG NUMBER: GALN-SA2C-730-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2967.9	2967.9	2967.9	2967.9	2967.9	2967.9	2967.9	2967.9	2967.9	2967.9	2967.9
2.5°	2972.2	2980.7	2957.9	2935.9	2915.9	2888.2	2863.3	2842.6	2828.4	2826.3	2819.1
5°	2982.1	2982.8	2939.4	2881.1	2824.1	2761.5	2696.7	2650.5	2607.0	2582.8	2570.7
7.5°	2989.2	2982.8	2904.5	2809.9	2700.3	2586.4	2472.5	2381.4	2311.0	2283.2	2293.9
10°	2986.4	2966.5	2851.9	2700.3	2540.9	2370.7	2207.1	2078.9	1961.5	1901.0	1902.4
12.5°	2970.7	2938.0	2773.6	2577.1	2343.0	2115.2	1864.7	1691.8	1555.8	1475.4	1450.5
15°	2957.2	2900.3	2681.8	2409.9	2118.8	1793.5	1488.2	1274.7	1160.8	1097.5	1096.8
17.5°	2943.0	2864.0	2581.4	2232.7	1861.2	1442.7	1122.4	959.4	906.0	912.4	901.8
20°	2928.0	2821.3	2476.8	2035.5	1547.3	1076.1	840.5	774.4	789.3	818.5	822.8
22.5°	2910.9	2775.7	2364.3	1818.5	1217.0	809.9	681.8	671.9	710.3	755.8	762.3
25°	2884.6	2718.8	2222.7	1591.4	938.8	652.6	597.1	604.3	642.0	680.4	684.7
27.5°	2847.6	2648.3	2079.7	1308.1	705.3	560.1	545.9	555.1	573.6	597.1	602.8
30°	2797.8	2568.6	1915.2	1063.3	565.1	513.9	508.2	513.2	523.8	533.8	536.6
32.5°	2748.0	2491.7	1749.4	814.2	503.9	483.3	477.6	477.6	477.6	479.0	479.7
35°	2701.7	2419.1	1571.5	634.1	471.9	459.1	451.2	442.7	441.3	436.3	436.3
37.5°	2676.1	2353.0	1382.2	530.9	448.4	439.1	428.5	414.2	406.4	407.1	405.7
40°	2681.1	2309.5	1209.9	472.6	429.2	419.2	402.8	386.5	381.5	381.5	380.1
42.5°	2737.3	2295.3	1044.8	442.0	410.7	399.3	378.6	363.7	360.8	360.1	361.6
45°	2866.8	2330.2	896.8	422.1	395.0	377.9	357.3	343.8	340.9	340.9	340.2
47.5°	3119.5	2443.3	790.7	409.2	383.6	361.6	340.2	326.7	321.7	320.3	320.3
50°	3512.4	2688.9	711.7	397.9	369.4	346.6	324.5	308.9	301.1	300.3	299.6
52.5°	4058.2	3071.8	681.1	389.3	353.7	331.0	306.8	291.8	281.8	279.7	278.3
55°	4696.7	3606.3	723.1	382.9	337.4	313.2	288.2	272.6	263.3	259.1	258.4
57.5°	5436.1	4248.3	882.5	374.4	322.4	293.9	269.7	254.1	244.1	239.1	237.7
60°	6100.2	4908.0	1160.8	369.4	309.6	273.3	248.4	234.2	224.9	219.9	219.2
62.5°	6829.7	5537.2	1493.2	382.9	303.9	253.4	228.5	215.7	207.8	202.8	202.8
65°	7609.0	6167.1	1713.1	428.5	312.4	237.7	207.1	196.4	189.3	185.8	185.0
67.5°	8134.3	6384.9	1411.3	475.4	333.8	220.6	186.5	177.9	173.7	170.1	170.1
69°	8077.3	6109.4	1041.3	487.5	340.2	212.1	175.1	168.7	163.0	161.6	160.1
70°	7897.3	5795.6	872.6	479.7	335.2	204.3	168.0	160.1	155.2	153.7	153.0
72.5°	7034.0	5026.2	649.8	417.1	285.4	177.2	148.8	141.6	137.4	135.2	135.2
75°	5844.0	4108.1	507.5	331.7	223.5	149.5	127.4	121.7	118.1	116.7	116.0
77.5°	3275.3	2293.9	364.4	259.8	169.4	121.0	106.8	101.8	98.2	96.8	96.8
80°	912.4	655.5	214.2	171.5	115.3	91.8	84.7	81.1	76.2	72.6	74.7
82.5°	343.8	284.0	122.4	103.2	73.3	61.2	59.1	56.2	54.1	49.1	49.1
85°	167.3	138.1	78.3	54.8	40.6	32.0	30.6	29.2	27.8	24.2	24.9
87.5°	57.6	61.2	34.2	19.9	12.1	7.8	6.4	3.6	3.6	3.6	3.6
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)