

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: P451838

Luminaire Tested: **GALN-SA2D-727-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2D-727-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13314 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 125  
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

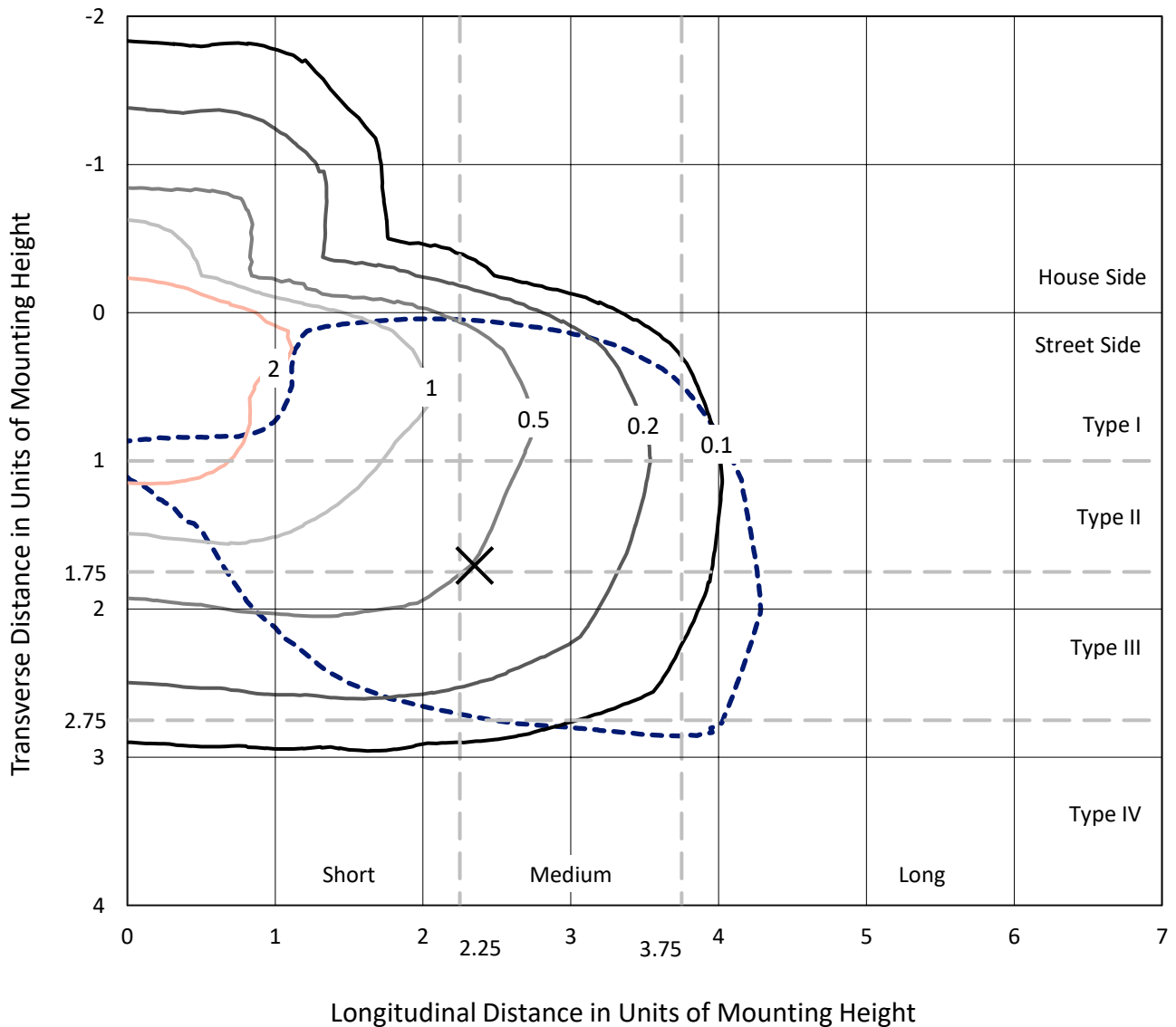




REPORT NUMBER: P451838  
 CATALOG NUMBER: GALN-SA2D-727-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

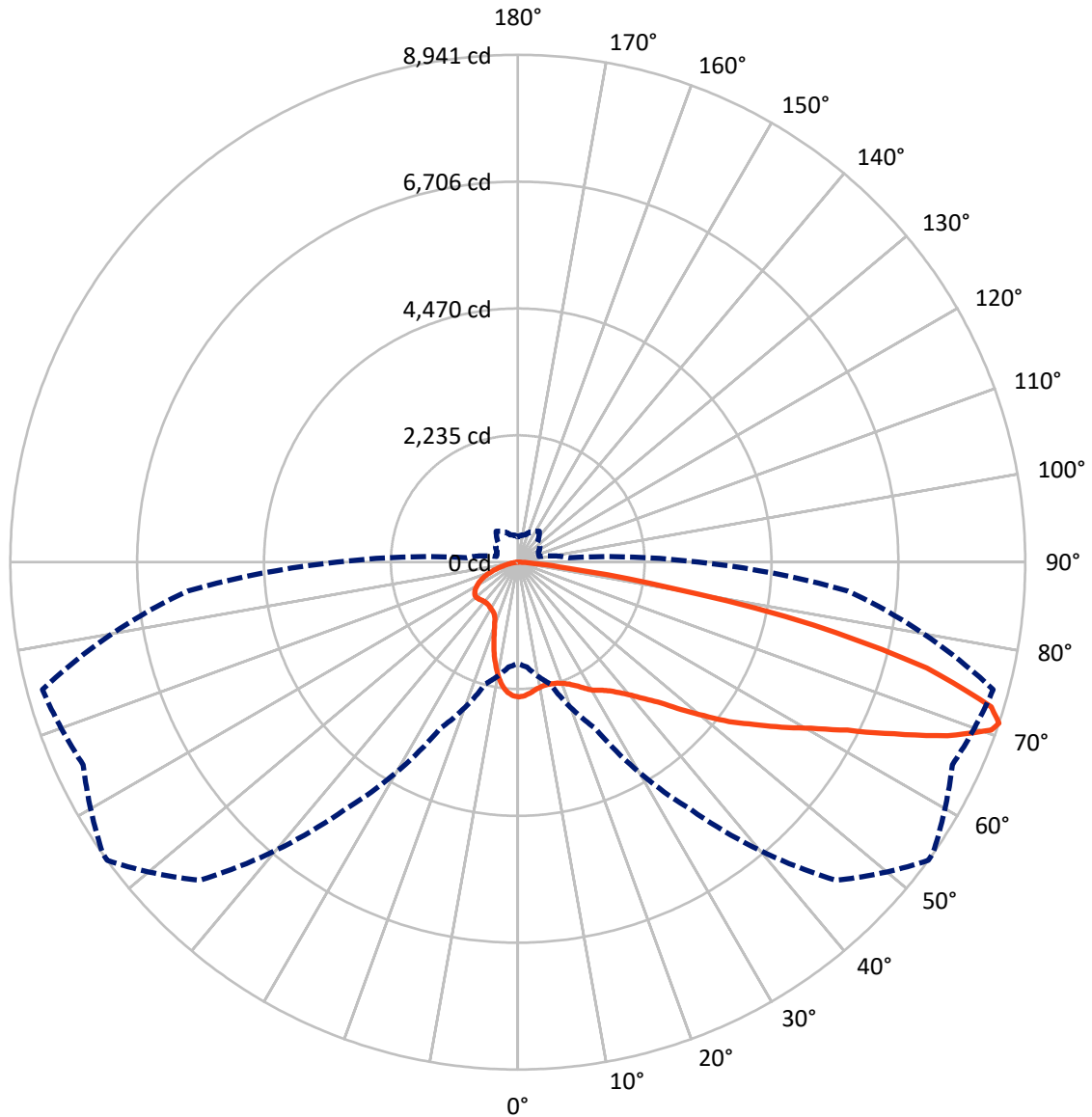
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P451838  
CATALOG NUMBER: GALN-SA2D-727-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P451838

CATALOG NUMBER: GALN-SA2D-727-U-T3R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2403.8	0.0	2403.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	10910.2	0.0	10910.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	13314.0	0.0	13314.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.7	1.6
10°-20°	559.0	4.2
20°-30°	930.7	7.0
30°-40°	1376.2	10.3
40°-50°	1938.4	14.6
50°-60°	2595.6	19.5
60°-70°	3271.5	24.6
70°-80°	2234.5	16.8
80°-90°	196.5	1.5
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°	13314.0	100.0
0°-180°	13314.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P451838

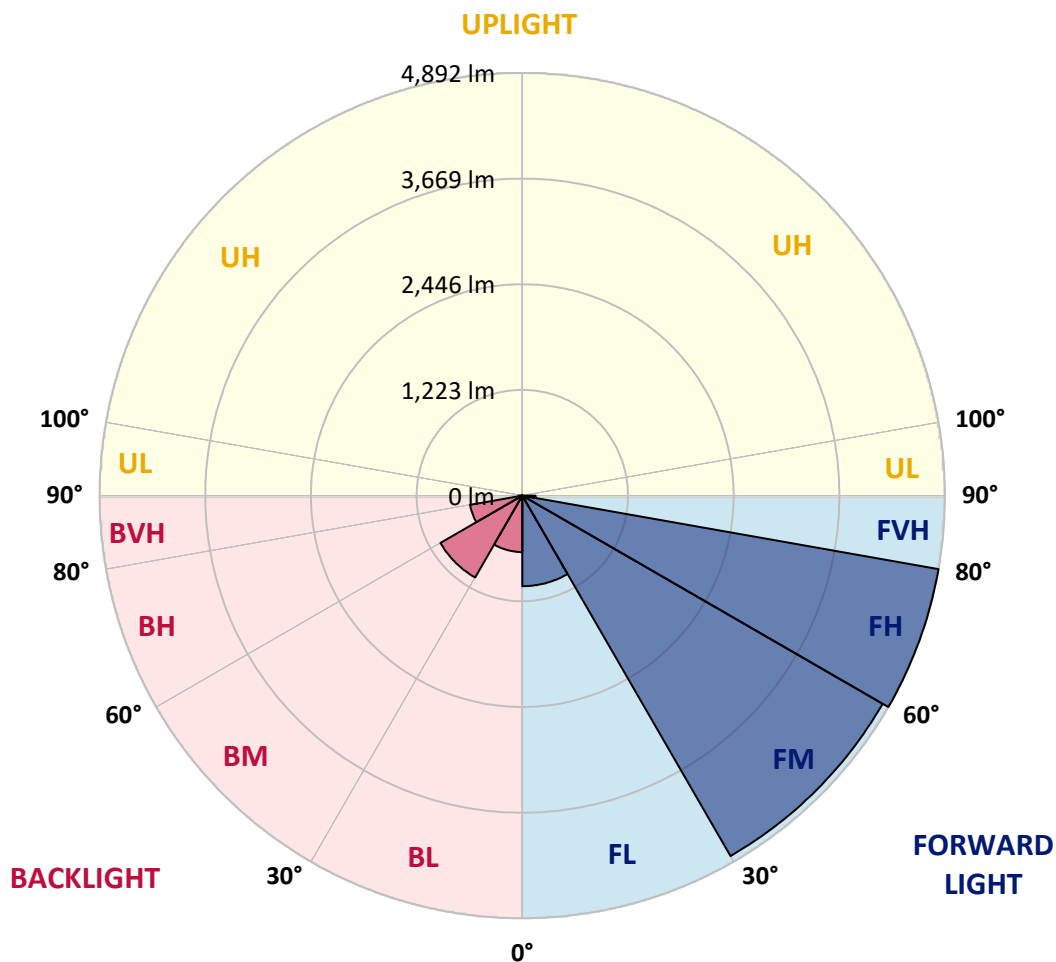
CATALOG NUMBER: GALN-SA2D-727-U-T3R

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1048.0	7.9			
FM	(30°-60°)	4816.5	36.2			
FH	(60°-80°)	4892.1	36.7			G2/5000
FVH	(80°-90°)	153.6	1.2			G2/225
BL	(0°-30°)	653.3	4.9	B2/1000		
BM	(30°-60°)	1093.6	8.2	B2/2500		
BH	(60°-80°)	613.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	42.9	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-G2**

Type IV Medium





REPORT NUMBER: P451838

CATALOG NUMBER: GALN-SA2D-727-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4
2.5°	2294.9	2305.7	2308.5	2315.7	2330.8	2343.1	2355.3	2353.8	2371.1	2378.3	2384.8
5°	2192.7	2195.6	2206.4	2220.8	2247.4	2281.2	2314.3	2315.0	2357.4	2391.2	2407.8
7.5°	2118.0	2127.3	2134.5	2149.6	2177.6	2214.3	2266.8	2271.1	2346.6	2413.5	2448.8
10°	2069.0	2079.8	2087.7	2106.4	2134.5	2175.5	2232.3	2240.2	2338.7	2448.8	2510.6
12.5°	2024.5	2035.2	2042.4	2066.9	2103.6	2153.9	2217.9	2227.3	2341.6	2489.8	2578.2
15°	2051.8	2060.4	2057.5	2064.7	2089.2	2146.7	2223.7	2233.0	2352.4	2529.3	2645.1
17.5°	2173.3	2180.5	2156.8	2129.5	2118.0	2160.4	2241.6	2251.7	2374.0	2570.3	2713.4
20°	2352.4	2371.8	2320.0	2258.9	2203.5	2209.3	2279.0	2289.8	2404.2	2611.3	2783.2
22.5°	2585.4	2599.8	2536.5	2435.8	2333.7	2281.2	2335.1	2341.6	2449.5	2664.5	2859.4
25°	2859.4	2868.0	2780.3	2650.9	2503.4	2404.2	2412.1	2423.6	2524.3	2724.9	2927.0
27.5°	3125.5	3152.8	3051.4	2893.2	2699.0	2533.6	2517.8	2525.0	2605.5	2758.7	2973.8
30°	3441.2	3439.1	3331.9	3148.5	2899.7	2674.6	2617.8	2616.3	2649.4	2775.3	3007.6
32.5°	3692.9	3722.4	3617.4	3417.5	3129.1	2820.6	2686.8	2683.9	2683.2	2804.0	3057.9
35°	3979.2	3983.5	3887.1	3685.7	3377.2	3004.0	2783.2	2768.8	2752.3	2865.9	3126.2
37.5°	4235.2	4255.3	4166.9	3941.0	3621.0	3194.5	2915.5	2906.2	2855.8	2973.0	3235.5
40°	4435.1	4450.2	4397.0	4182.0	3861.2	3400.2	3083.8	3066.5	3005.4	3148.5	3381.5
42.5°	4500.6	4531.5	4552.3	4446.6	4137.4	3644.0	3290.9	3269.3	3222.6	3414.6	3549.8
45°	4505.6	4554.5	4664.5	4669.6	4415.0	3936.0	3532.6	3517.5	3513.9	3755.5	3786.4
47.5°	4467.5	4517.1	4701.9	4801.9	4662.4	4230.9	3881.4	3857.6	3859.8	4176.9	4051.8
50°	4375.4	4434.4	4658.8	4886.8	4855.8	4537.2	4249.6	4241.7	4286.2	4658.1	4327.2
52.5°	4202.1	4273.3	4614.2	4940.0	4999.7	4801.2	4668.1	4645.8	4758.7	5180.2	4628.6
55°	3722.4	3829.6	4450.9	4969.5	5136.3	5053.6	5045.0	5085.2	5234.8	5749.8	4960.1
57.5°	3472.1	3552.7	4096.4	4974.5	5308.9	5347.0	5485.1	5495.2	5756.9	6354.6	5334.8
60°	3335.5	3406.7	3902.2	4941.4	5549.8	5710.2	5935.3	5971.3	6266.8	7009.7	5723.1
62.5°	3216.1	3277.3	3785.7	4827.1	5821.7	6248.9	6518.5	6535.8	6845.8	7733.2	6106.5
65°	2934.9	3004.7	3551.3	4712.7	6056.1	6922.0	7292.4	7272.2	7462.1	8357.5	6346.7
67.5°	2555.9	2644.4	3113.3	4317.9	6171.9	7657.7	8164.0	8138.8	8070.5	8766.7	6415.7
70°	2071.9	2119.4	2553.0	3635.4	5709.5	8043.9	8852.2	8825.6	8447.4	8820.6	6089.2
71°	1782.8	1856.9	2223.0	3229.1	5324.7	7926.0	8940.7	8933.5	8448.1	8671.7	5843.2
72.5°	1391.6	1436.9	1760.5	2502.0	4525.7	7255.7	8722.1	8749.4	8264.7	8258.2	5336.2
75°	880.3	900.4	1104.6	1472.9	2483.3	5138.5	7445.6	7519.6	7338.4	6759.5	3968.4
77.5°	511.3	537.2	661.6	868.0	1073.0	2788.9	5327.6	5408.1	5098.9	3721.7	1624.6
80°	297.7	326.5	435.8	504.1	492.6	1034.9	2712.7	2850.1	2207.8	940.0	456.0
82.5°	165.4	184.8	306.4	307.1	262.5	338.0	853.7	893.2	630.0	379.0	186.3
85°	120.1	135.9	197.8	179.1	125.9	145.3	297.0	311.4	254.6	159.7	60.4
87.5°	42.4	60.4	108.6	86.3	34.5	30.2	85.6	69.8	64.7	44.6	13.7
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: P451838  
 CATALOG NUMBER: GALN-SA2D-727-U-T3R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4
2.5°	2388.4	2389.8	2382.6	2369.7	2356.7	2340.2	2321.5	2307.1	2300.6	2299.9	2299.2
5°	2414.2	2417.8	2390.5	2350.2	2305.7	2251.0	2204.3	2151.0	2137.4	2115.8	2122.3
7.5°	2456.0	2453.8	2399.9	2314.3	2210.0	2094.2	1996.4	1939.6	1880.6	1864.1	1864.8
10°	2515.7	2502.0	2399.9	2240.9	2066.9	1895.0	1758.4	1672.1	1625.3	1586.5	1572.1
12.5°	2578.9	2544.4	2376.9	2138.1	1882.8	1672.1	1525.4	1408.9	1378.6	1347.0	1347.7
15°	2639.3	2581.8	2331.5	1993.5	1684.3	1434.0	1291.6	1221.9	1212.5	1216.1	1215.4
17.5°	2694.0	2608.4	2262.5	1832.4	1452.7	1229.8	1154.3	1159.3	1184.5	1202.5	1204.6
20°	2749.4	2624.2	2159.7	1616.7	1234.1	1106.1	1109.0	1148.5	1186.6	1211.1	1214.7
22.5°	2801.9	2631.4	2038.8	1408.1	1075.9	1053.6	1096.0	1138.4	1175.8	1199.6	1203.2
25°	2836.4	2614.9	1867.7	1190.2	998.2	1034.9	1079.5	1115.4	1147.1	1171.5	1177.3
27.5°	2845.8	2561.7	1655.5	1014.0	962.2	1016.9	1057.9	1084.5	1109.0	1132.0	1136.3
30°	2840.7	2483.3	1422.5	910.5	941.4	996.0	1027.7	1047.1	1076.6	1094.6	1098.2
32.5°	2832.8	2392.0	1179.4	855.1	924.1	976.6	995.3	1012.6	1011.9	1004.7	1009.7
35°	2835.7	2282.6	982.4	822.0	909.0	962.2	978.1	956.5	894.6	891.8	888.9
37.5°	2850.8	2174.8	839.3	799.0	901.1	960.1	968.7	869.5	814.8	789.6	783.2
40°	2889.6	2048.9	745.1	781.7	900.4	976.6	926.3	825.6	720.6	671.7	668.1
42.5°	2941.4	1925.2	687.5	770.9	909.0	1001.8	909.0	763.8	649.4	620.6	616.3
45°	3018.4	1783.5	655.9	765.9	922.0	1011.2	903.3	718.4	620.6	597.6	597.6
47.5°	3105.4	1648.3	638.6	762.3	938.5	1004.7	852.2	704.1	607.0	609.9	623.5
50°	3191.7	1531.1	625.7	754.4	952.9	1001.1	831.4	703.3	610.6	647.3	671.7
52.5°	3291.6	1448.4	609.9	741.5	952.9	978.1	824.9	717.7	620.6	631.4	642.2
55°	3412.5	1422.5	589.7	713.4	935.6	920.5	821.3	738.6	627.8	602.7	607.0
57.5°	3572.1	1464.2	570.3	678.2	896.1	860.8	819.9	744.3	611.3	590.4	586.1
60°	3757.7	1546.9	564.5	642.2	842.1	809.8	811.2	727.8	588.3	566.7	570.3
62.5°	3887.8	1596.6	561.0	614.9	783.2	753.7	790.4	707.7	578.2	559.5	563.1
65°	3887.8	1536.1	527.9	573.2	706.9	686.1	765.2	682.5	565.3	543.7	540.1
67.5°	3740.4	1359.9	477.5	510.6	622.8	609.1	730.0	652.3	545.8	529.3	520.7
70°	3356.4	1031.3	414.2	437.3	516.4	528.6	684.6	611.3	513.5	493.3	480.4
71°	3187.4	898.2	387.6	399.9	475.4	493.3	663.1	594.0	499.1	470.3	447.3
72.5°	2861.6	756.6	347.4	352.4	406.3	438.7	617.8	561.0	471.8	430.8	404.9
75°	2174.0	552.3	279.8	276.9	300.6	348.1	522.8	499.8	413.5	358.1	343.0
77.5°	939.2	300.6	209.3	211.4	204.2	263.9	411.4	429.3	354.6	291.3	277.6
80°	284.8	173.3	143.1	146.0	136.6	176.9	289.8	336.6	284.8	226.5	207.8
82.5°	146.0	103.6	97.8	96.4	87.0	100.0	175.5	230.1	203.5	141.7	125.1
85°	63.3	55.4	48.2	46.7	41.0	36.0	62.6	115.1	107.9	79.1	75.5
87.5°	15.8	14.4	9.3	8.6	5.0	0.7	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)