

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: P452430

Luminaire Tested: **GALN-SA3B-827-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452430  
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-SA3B-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA 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: 12464 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

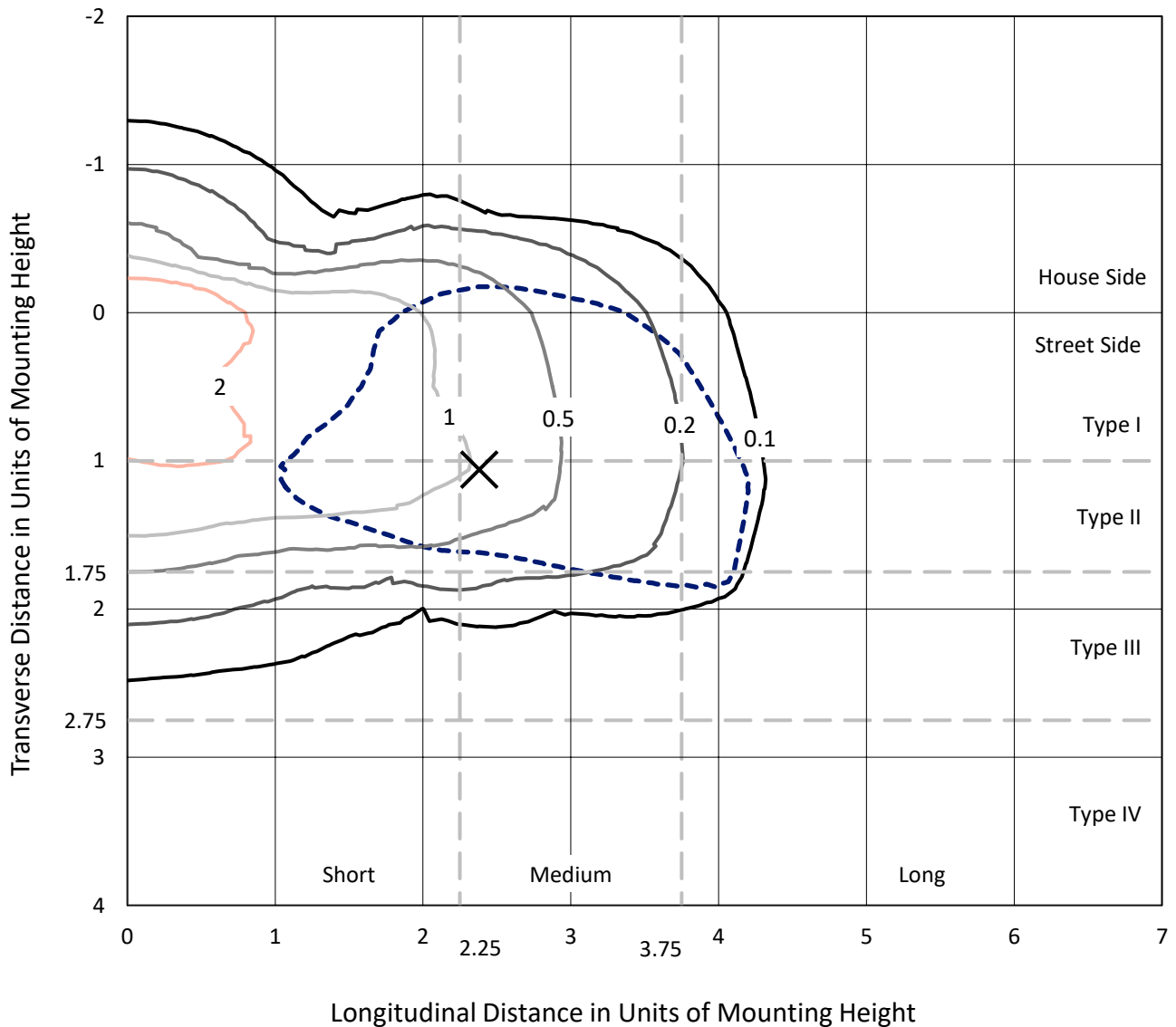
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

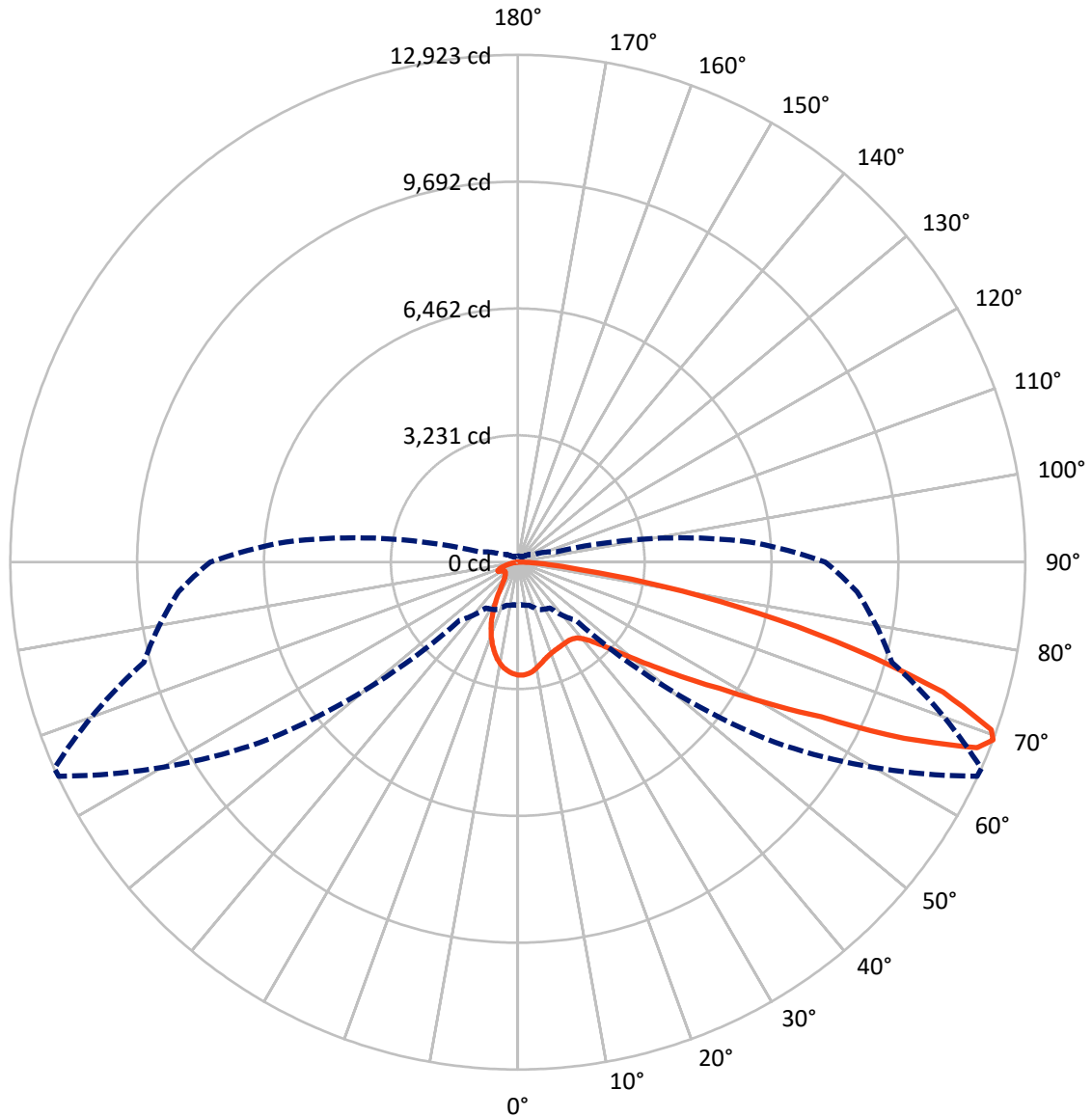
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2344.0	0.0	2344.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	10120.0	0.0	10120.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	12464.0	0.0	12464.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.9	2.0
10°-20°	592.9	4.8
20°-30°	807.1	6.5
30°-40°	1084.6	8.7
40°-50°	1619.4	13.0
50°-60°	2576.0	20.7
60°-70°	3168.3	25.4
70°-80°	2061.4	16.5
80°-90°	304.4	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°	12464.0	100.0
0°-180°	12464.0	100.0

**Coefficient of Utilization**



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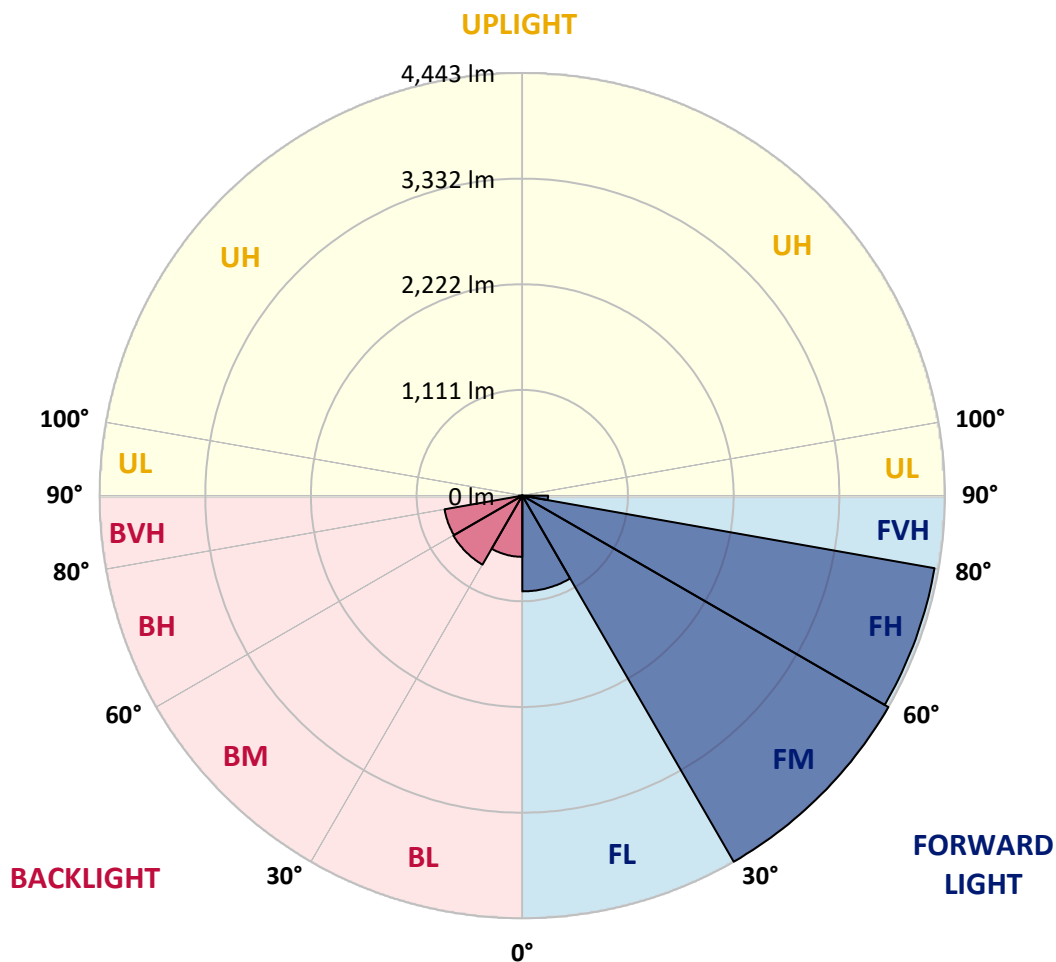
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1006.5	8.1			
FM	(30°-60°)	4443.0	35.6			
FH	(60°-80°)	4399.9	35.3			G2/5000
FVH	(80°-90°)	270.6	2.2			G3/500
BL	(0°-30°)	643.4	5.2	B2/1000		
BM	(30°-60°)	836.9	6.7	B1/1000		
BH	(60°-80°)	829.9	6.7	B2/1000		G2/1000
BVH	(80°-90°)	33.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2878.3	2878.3	2878.3	2878.3	2878.3	2878.3	2878.3	2878.3	2878.3	2878.3	2878.3
2.5°	2777.5	2788.6	2801.0	2814.8	2841.0	2855.5	2865.9	2877.6	2879.0	2885.2	2880.4
5°	2572.5	2585.6	2604.3	2630.5	2669.8	2731.3	2794.8	2846.5	2852.7	2881.7	2890.0
7.5°	2401.3	2408.9	2424.1	2466.2	2522.1	2590.5	2682.9	2787.9	2803.0	2872.1	2896.2
10°	2261.9	2269.5	2287.4	2330.9	2386.1	2471.7	2573.2	2711.2	2723.7	2842.4	2897.6
12.5°	2157.7	2164.6	2183.9	2226.7	2290.2	2370.3	2482.1	2628.4	2646.4	2803.0	2884.5
15°	2078.3	2091.4	2107.3	2142.5	2209.4	2286.8	2395.1	2552.5	2567.0	2761.6	2875.5
17.5°	2044.5	2050.7	2061.7	2094.2	2143.2	2219.1	2328.2	2493.1	2510.4	2732.6	2873.5
20°	2045.9	2052.1	2054.1	2072.1	2107.3	2172.9	2280.5	2446.2	2466.9	2707.1	2876.9
22.5°	2092.8	2093.5	2085.9	2079.7	2093.5	2148.0	2246.7	2411.0	2435.2	2696.1	2879.7
25°	2165.3	2177.7	2166.7	2137.7	2112.1	2138.4	2233.6	2391.7	2414.4	2680.2	2876.2
27.5°	2282.6	2284.7	2275.7	2236.4	2170.1	2150.8	2228.1	2377.2	2396.5	2668.5	2859.0
30°	2440.0	2433.8	2425.5	2382.0	2277.8	2198.4	2239.8	2364.1	2384.1	2651.2	2838.3
32.5°	2599.4	2618.8	2611.2	2560.1	2424.8	2290.9	2277.8	2362.7	2379.2	2638.1	2815.5
35°	2768.5	2777.5	2813.4	2787.2	2648.4	2440.7	2348.9	2384.1	2397.2	2638.8	2799.6
37.5°	2901.1	2925.2	3009.4	3032.2	2901.8	2638.8	2464.1	2444.8	2450.3	2672.6	2805.8
40°	3061.2	3102.6	3211.0	3304.2	3218.6	2896.2	2660.2	2557.3	2564.2	2754.0	2846.5
42.5°	3264.1	3293.1	3438.8	3565.1	3551.3	3236.5	2897.6	2741.6	2745.1	2916.2	2960.4
45°	3501.6	3543.0	3706.6	3896.4	3928.8	3621.7	3240.7	3020.5	3018.4	3168.2	3173.0
47.5°	3805.3	3830.8	3993.0	4200.1	4331.2	4105.5	3656.9	3420.8	3398.7	3535.4	3496.0
50°	4084.8	4124.9	4247.7	4474.1	4800.6	4672.2	4204.2	3939.9	3888.1	4015.8	3949.5
52.5°	4202.2	4244.3	4347.8	4628.7	5203.0	5405.2	4899.3	4559.0	4472.7	4570.7	4546.6
55°	3998.5	4053.1	4149.7	4491.4	5379.7	6250.8	5836.6	5274.8	5212.0	5169.9	5176.8
57.5°	3451.2	3502.9	3633.4	4010.3	5168.5	6864.4	7175.0	6194.9	6060.3	5866.3	5899.4
60°	2627.0	2659.5	2727.1	3144.7	4542.4	7023.8	8694.9	7357.9	7272.3	6560.0	6583.5
62.5°	1865.7	1902.3	1949.2	2157.7	3325.6	6574.5	9884.9	8982.0	8676.3	7278.5	7255.8
65°	1515.1	1490.2	1546.8	1644.1	1951.3	5095.3	10152.7	11236.4	10815.3	8224.9	7908.7
67.5°	1245.9	1219.6	1275.6	1448.8	1484.0	2957.7	9187.7	12699.7	12615.4	9254.0	8572.0
69°	1103.0	1089.2	1138.2	1335.6	1424.6	2100.4	8004.0	12903.3	12923.3	9860.7	8674.2
70°	993.9	999.5	1047.1	1278.3	1397.7	1731.8	6840.9	12622.3	12792.1	10163.7	8563.8
72.5°	731.7	743.4	809.6	1058.8	1372.2	1469.5	4071.0	11025.1	11325.4	10181.7	7834.2
75°	511.5	505.9	564.6	797.2	1296.3	1456.4	2391.0	8526.5	8866.8	8800.5	6582.8
77.5°	334.8	343.7	390.7	563.2	1090.6	1445.4	1558.6	6049.2	6270.1	5885.6	3893.6
80°	236.1	235.4	261.6	384.5	809.0	1388.8	1276.2	3812.9	3757.0	2313.0	1154.8
82.5°	135.3	144.9	175.3	270.6	541.1	1222.4	1174.1	1823.6	1664.8	659.2	390.0
85°	75.2	78.7	104.2	163.6	316.1	920.8	1025.0	829.7	782.7	275.4	167.7
87.5°	24.2	26.2	43.5	82.8	143.6	434.8	580.5	383.1	353.4	99.4	67.6
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°	2878.3	2878.3	2878.3	2878.3	2878.3	2878.3	2878.3	2878.3	2878.3	2878.3	2878.3
2.5°	2882.4	2890.7	2868.6	2847.2	2827.9	2801.0	2776.8	2756.8	2743.0	2740.9	2734.0
5°	2892.1	2892.8	2850.7	2794.1	2738.9	2678.1	2615.3	2570.4	2528.3	2504.9	2493.1
7.5°	2899.0	2892.8	2816.9	2725.1	2618.8	2508.3	2397.9	2309.5	2241.2	2214.3	2224.6
10°	2896.2	2876.9	2765.8	2618.8	2464.1	2299.2	2140.4	2016.2	1902.3	1843.6	1845.0
12.5°	2881.0	2849.3	2689.8	2499.3	2272.3	2051.4	1808.4	1640.7	1508.9	1430.9	1406.7
15°	2867.9	2812.7	2600.8	2337.1	2054.8	1739.4	1443.3	1236.2	1125.8	1064.3	1063.7
17.5°	2854.1	2777.5	2503.5	2165.3	1805.0	1399.1	1088.5	930.4	878.7	884.9	874.5
20°	2839.6	2736.1	2402.0	1974.1	1500.6	1043.6	815.2	751.0	765.5	793.8	797.9
22.5°	2823.1	2691.9	2293.0	1763.6	1180.3	785.5	661.2	651.6	688.9	733.0	739.2
25°	2797.5	2636.7	2155.6	1543.4	910.4	632.9	579.1	586.0	622.6	659.9	664.0
27.5°	2761.6	2568.4	2016.9	1268.7	684.0	543.2	529.4	538.4	556.3	579.1	584.6
30°	2713.3	2491.1	1857.4	1031.2	548.0	498.4	492.8	497.7	508.0	517.7	520.4
32.5°	2665.0	2416.5	1696.6	789.6	488.7	468.7	463.1	463.1	463.1	464.5	465.2
35°	2620.1	2346.1	1524.0	615.0	457.6	445.2	437.6	429.3	427.9	423.1	423.1
37.5°	2595.3	2281.9	1340.4	514.9	434.8	425.9	415.5	401.7	394.1	394.8	393.4
40°	2600.1	2239.8	1173.4	458.3	416.2	406.5	390.7	374.8	370.0	370.0	368.6
42.5°	2654.6	2226.0	1013.3	428.6	398.3	387.2	367.2	352.7	349.9	349.3	350.6
45°	2780.3	2259.8	869.7	409.3	383.1	366.5	346.5	333.4	330.6	330.6	329.9
47.5°	3025.3	2369.6	766.9	396.9	372.0	350.6	329.9	316.8	312.0	310.6	310.6
50°	3406.3	2607.7	690.2	385.8	358.2	336.1	314.7	299.6	292.0	291.3	290.6
52.5°	3935.7	2979.1	660.6	377.6	343.0	321.0	297.5	283.0	273.3	271.3	269.9
55°	4554.9	3497.4	701.3	371.3	327.2	303.7	279.5	264.4	255.4	251.2	250.6
57.5°	5272.0	4120.0	855.9	363.1	312.7	285.1	261.6	246.4	236.8	231.9	230.5
60°	5916.0	4759.9	1125.8	358.2	300.3	265.1	240.9	227.1	218.1	213.3	212.6
62.5°	6623.5	5370.0	1448.1	371.3	294.7	245.7	221.6	209.1	201.5	196.7	196.7
65°	7379.3	5980.9	1661.4	415.5	303.0	230.5	200.9	190.5	183.6	180.2	179.5
67.5°	7888.7	6192.1	1368.7	461.1	323.7	214.0	180.8	172.6	168.4	165.0	165.0
69°	7833.5	5925.0	1009.8	472.8	329.9	205.7	169.8	163.6	158.1	156.7	155.3
70°	7658.9	5620.6	846.2	465.2	325.1	198.1	162.9	155.3	150.5	149.1	148.4
72.5°	6821.6	4874.4	630.2	404.5	276.8	171.9	144.3	137.4	133.2	131.1	131.1
75°	5667.5	3984.0	492.1	321.6	216.7	144.9	123.6	118.0	114.6	113.2	112.5
77.5°	3176.5	2224.6	353.4	251.9	164.3	117.3	103.5	98.7	95.3	93.9	93.9
80°	884.9	635.7	207.8	166.3	111.8	89.0	82.1	78.7	73.9	70.4	72.5
82.5°	333.4	275.4	118.7	100.1	71.1	59.4	57.3	54.5	52.5	47.6	47.6
85°	162.2	133.9	75.9	53.1	39.3	31.1	29.7	28.3	26.9	23.5	24.2
87.5°	55.9	59.4	33.1	19.3	11.7	7.6	6.2	3.5	3.5	3.5	3.5
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)