

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: P451821

Luminaire Tested: **GALN-SA2D-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451821
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-SA2D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 12987 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

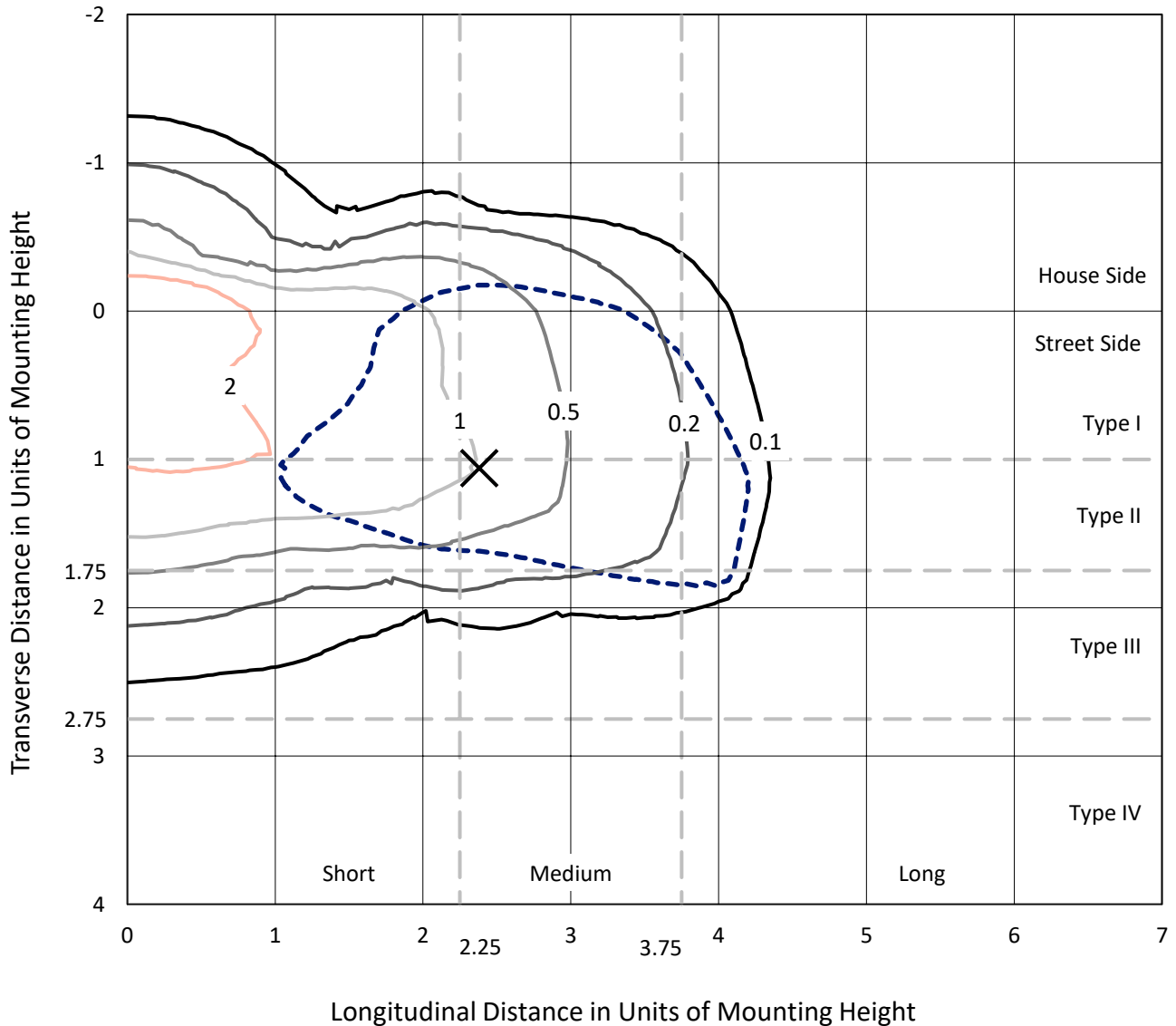
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451821
 CATALOG NUMBER: GALN-SA2D-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

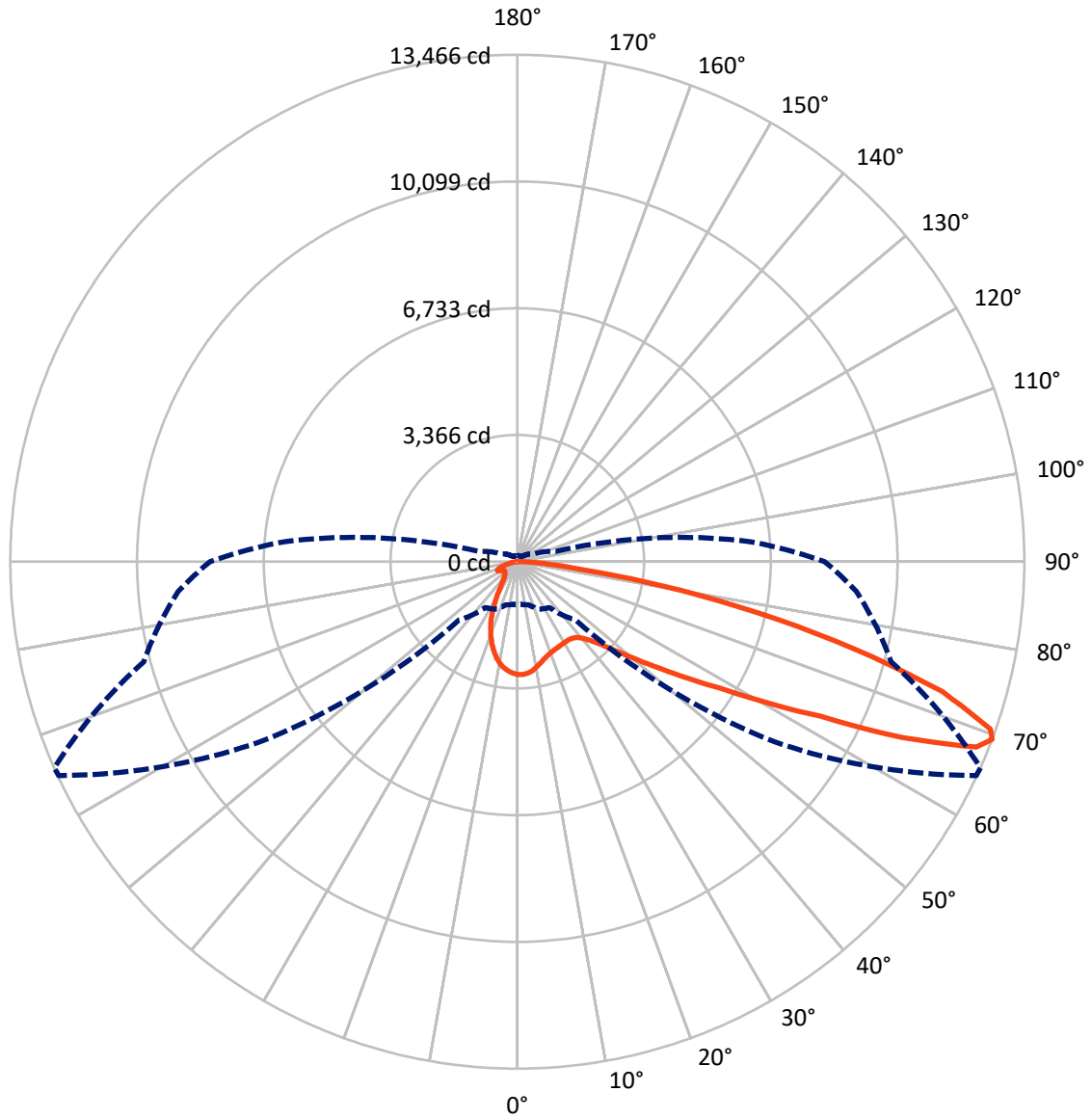
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P451821
CATALOG NUMBER: GALN-SA2D-727-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451821

CATALOG NUMBER: GALN-SA2D-727-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2442.4	0.0	2442.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10544.6	0.0	10544.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	12987.0	0.0	12987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.4	2.0
10°-20°	617.7	4.8
20°-30°	841.0	6.5
30°-40°	1130.1	8.7
40°-50°	1687.4	13.0
50°-60°	2684.1	20.7
60°-70°	3301.2	25.4
70°-80°	2147.9	16.5
80°-90°	317.2	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°	12987.0	100.0
0°-180°	12987.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451821

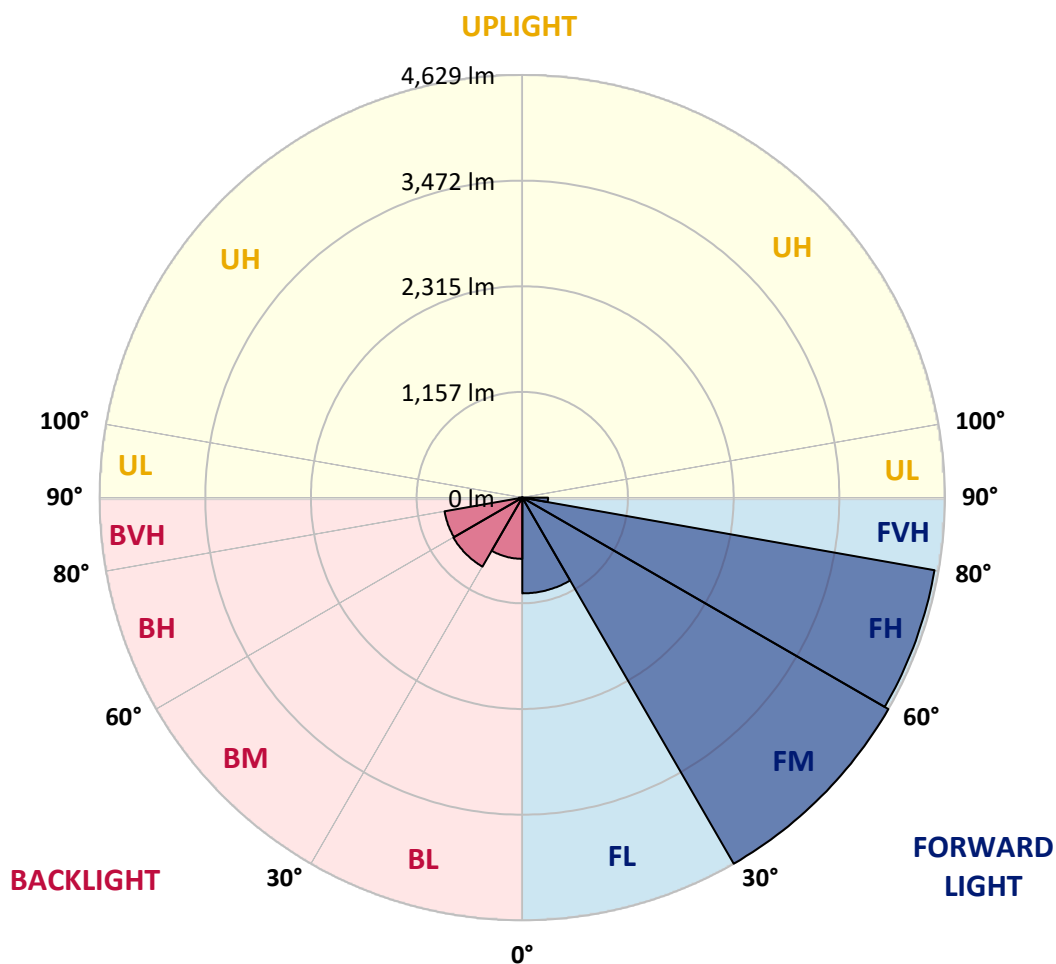
CATALOG NUMBER: GALN-SA2D-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1048.7	8.1			
FM	(30°-60°)	4629.5	35.6			
FH	(60°-80°)	4584.5	35.3			G2/5000
FVH	(80°-90°)	282.0	2.2			G3/500
BL	(0°-30°)	670.4	5.2	B2/1000		
BM	(30°-60°)	872.0	6.7	B1/1000		
BH	(60°-80°)	864.7	6.7	B2/1000		G2/1000
BVH	(80°-90°)	35.2	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: P451821

CATALOG NUMBER: GALN-SA2D-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2999.1	2999.1	2999.1	2999.1	2999.1	2999.1	2999.1	2999.1	2999.1	2999.1	2999.1
2.5°	2894.1	2905.6	2918.5	2932.9	2960.2	2975.3	2986.1	2998.3	2999.8	3006.3	3001.2
5°	2680.5	2694.1	2713.5	2740.9	2781.9	2845.9	2912.0	2966.0	2972.4	3002.7	3011.3
7.5°	2502.1	2510.0	2525.8	2569.7	2628.0	2699.2	2795.5	2904.8	2920.7	2992.6	3017.8
10°	2356.8	2364.7	2383.4	2428.7	2486.3	2575.5	2681.2	2825.0	2838.0	2961.7	3019.2
12.5°	2248.2	2255.4	2275.5	2320.1	2386.3	2469.7	2586.2	2738.7	2757.4	2920.7	3005.5
15°	2165.5	2179.2	2195.7	2232.4	2302.2	2382.7	2495.6	2659.6	2674.7	2877.5	2996.2
17.5°	2130.3	2136.7	2148.2	2182.0	2233.1	2312.2	2425.9	2597.7	2615.7	2847.3	2994.0
20°	2131.7	2138.2	2140.3	2159.0	2195.7	2264.0	2376.2	2548.8	2570.4	2820.7	2997.6
22.5°	2180.6	2181.3	2173.4	2166.9	2181.3	2238.1	2341.0	2512.2	2537.3	2809.2	3000.5
25°	2256.1	2269.1	2257.6	2227.4	2200.7	2228.1	2327.3	2492.0	2515.8	2792.6	2996.9
27.5°	2378.4	2380.5	2371.2	2330.2	2261.2	2241.0	2321.6	2476.9	2497.1	2780.4	2978.9
30°	2542.4	2535.9	2527.3	2482.0	2373.4	2290.6	2333.8	2463.3	2484.1	2762.4	2957.3
32.5°	2708.5	2728.6	2720.7	2667.5	2526.5	2387.0	2373.4	2461.8	2479.1	2748.8	2933.6
35°	2884.7	2894.1	2931.5	2904.1	2759.6	2543.1	2447.4	2484.1	2497.8	2749.5	2917.1
37.5°	3022.8	3048.0	3135.7	3159.4	3023.5	2749.5	2567.5	2547.4	2553.2	2784.7	2923.5
40°	3189.6	3232.8	3345.7	3442.8	3353.6	3017.8	2771.8	2664.6	2671.8	2869.6	2966.0
42.5°	3401.1	3431.3	3583.0	3714.7	3700.3	3372.3	3019.2	2856.7	2860.3	3038.6	3084.6
45°	3648.5	3691.6	3862.1	4059.9	4093.7	3773.6	3376.6	3147.2	3145.1	3301.1	3306.2
47.5°	3964.9	3991.6	4160.6	4376.3	4513.0	4277.8	3810.3	3564.3	3541.3	3683.7	3642.7
50°	4256.2	4297.9	4425.9	4661.8	5002.0	4868.3	4380.6	4105.2	4051.2	4184.3	4115.3
52.5°	4378.5	4422.4	4530.2	4822.9	5421.3	5632.0	5104.9	4750.3	4660.4	4762.5	4737.4
55°	4166.3	4223.1	4323.8	4679.8	5605.4	6513.1	6081.5	5496.1	5430.7	5386.8	5394.0
57.5°	3596.0	3649.9	3785.9	4178.5	5385.4	7152.4	7476.1	6454.8	6314.6	6112.5	6147.0
60°	2737.3	2771.1	2841.6	3276.7	4733.0	7318.6	9059.7	7666.7	7577.5	6835.3	6859.7
62.5°	1944.0	1982.1	2031.0	2248.2	3465.1	6850.4	10299.6	9358.9	9040.3	7584.0	7560.2
65°	1578.6	1552.8	1611.7	1713.1	2033.2	5309.1	10578.7	11707.8	11269.1	8570.0	8240.6
67.5°	1298.2	1270.8	1329.1	1509.6	1546.3	3081.8	9573.3	13232.5	13144.8	9642.3	8931.7
69°	1149.3	1134.9	1186.0	1391.6	1484.4	2188.5	8339.8	13444.7	13465.6	10274.5	9038.2
70°	1035.6	1041.4	1091.0	1332.0	1456.4	1804.5	7128.0	13152.0	13328.9	10590.2	8923.1
72.5°	762.4	774.6	843.6	1103.3	1429.8	1531.2	4241.8	11487.8	11800.6	10608.9	8162.9
75°	532.9	527.2	588.3	830.7	1350.7	1517.5	2491.3	8884.3	9238.8	9169.8	6859.0
77.5°	348.8	358.2	407.1	586.9	1136.3	1506.0	1624.0	6303.1	6533.2	6132.6	4057.0
80°	246.0	245.2	272.6	400.6	842.9	1447.0	1329.8	3972.9	3914.6	2410.0	1203.2
82.5°	141.0	151.0	182.7	281.9	563.9	1273.7	1223.4	1900.1	1734.7	686.8	406.3
85°	78.4	82.0	108.6	170.5	329.4	959.4	1068.0	864.5	815.6	287.0	174.8
87.5°	25.2	27.3	45.3	86.3	149.6	453.1	604.8	399.2	368.2	103.6	70.5
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: P451821
 CATALOG NUMBER: GALN-SA2D-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2999.1	2999.1	2999.1	2999.1	2999.1	2999.1	2999.1	2999.1	2999.1	2999.1	2999.1
2.5°	3003.4	3012.0	2989.0	2966.7	2946.6	2918.5	2893.3	2872.5	2858.1	2855.9	2848.7
5°	3013.4	3014.2	2970.3	2911.3	2853.8	2790.5	2725.0	2678.3	2634.4	2610.0	2597.7
7.5°	3020.6	3014.2	2935.1	2839.4	2728.6	2613.6	2498.5	2406.4	2335.2	2307.2	2318.0
10°	3017.8	2997.6	2881.8	2728.6	2567.5	2395.7	2230.2	2100.8	1982.1	1921.0	1922.4
12.5°	3001.9	2968.9	2802.7	2604.2	2367.6	2137.5	1884.3	1709.5	1572.2	1490.9	1465.7
15°	2988.3	2930.7	2709.9	2435.2	2141.1	1812.4	1503.8	1288.1	1173.0	1109.0	1108.3
17.5°	2973.9	2894.1	2608.5	2256.1	1880.7	1457.8	1134.2	969.5	915.5	922.0	911.2
20°	2958.8	2850.9	2502.8	2056.9	1563.5	1087.4	849.4	782.5	797.6	827.1	831.4
22.5°	2941.5	2804.9	2389.2	1837.6	1229.8	818.4	689.0	678.9	717.8	763.8	770.3
25°	2914.9	2747.3	2246.1	1608.1	948.6	659.5	603.4	610.6	648.7	687.6	691.9
27.5°	2877.5	2676.1	2101.5	1321.9	712.7	566.0	551.6	561.0	579.7	603.4	609.2
30°	2827.2	2595.6	1935.4	1074.5	571.0	519.3	513.5	518.5	529.3	539.4	542.3
32.5°	2776.8	2517.9	1767.8	822.8	509.2	488.3	482.6	482.6	482.6	484.0	484.7
35°	2730.1	2444.6	1588.0	640.8	476.8	463.9	456.0	447.3	445.9	440.9	440.9
37.5°	2704.2	2377.7	1396.7	536.5	453.1	443.7	433.0	418.6	410.7	411.4	409.9
40°	2709.2	2333.8	1222.6	477.5	433.7	423.6	407.1	390.5	385.5	385.5	384.1
42.5°	2766.0	2319.4	1055.8	446.6	415.0	403.5	382.6	367.5	364.6	363.9	365.4
45°	2896.9	2354.7	906.2	426.5	399.2	381.9	361.0	347.4	344.5	344.5	343.8
47.5°	3152.2	2469.0	799.0	413.5	387.6	365.4	343.8	330.1	325.1	323.6	323.6
50°	3549.2	2717.1	719.2	402.0	373.3	350.2	328.0	312.1	304.2	303.5	302.8
52.5°	4100.9	3104.1	688.3	393.4	357.4	334.4	310.0	294.9	284.8	282.6	281.2
55°	4746.0	3644.2	730.7	386.9	340.9	316.4	291.3	275.5	266.1	261.8	261.1
57.5°	5493.2	4292.9	891.8	378.3	325.8	297.0	272.6	256.8	246.7	241.7	240.2
60°	6164.3	4959.6	1173.0	373.3	312.9	276.2	251.0	236.6	227.3	222.2	221.5
62.5°	6901.4	5595.4	1508.9	386.9	307.1	256.0	230.9	217.9	210.0	205.0	205.0
65°	7689.0	6231.9	1731.1	433.0	315.7	240.2	209.3	198.5	191.3	187.7	187.0
67.5°	8219.7	6451.9	1426.2	480.4	337.3	223.0	188.4	179.8	175.5	171.9	171.9
69°	8162.2	6173.6	1052.2	492.7	343.8	214.3	176.9	170.5	164.7	163.3	161.8
70°	7980.2	5856.4	881.7	484.7	338.7	206.4	169.7	161.8	156.8	155.3	154.6
72.5°	7107.8	5079.0	656.6	421.5	288.4	179.1	150.3	143.1	138.8	136.6	136.6
75°	5905.3	4151.2	512.8	335.1	225.8	151.0	128.7	123.0	119.4	117.9	117.2
77.5°	3309.8	2318.0	368.2	262.5	171.2	122.3	107.9	102.8	99.2	97.8	97.8
80°	922.0	662.4	216.5	173.3	116.5	92.8	85.6	82.0	77.0	73.4	75.5
82.5°	347.4	287.0	123.7	104.3	74.1	61.9	59.7	56.8	54.7	49.6	49.6
85°	169.0	139.5	79.1	55.4	41.0	32.4	30.9	29.5	28.0	24.5	25.2
87.5°	58.3	61.9	34.5	20.1	12.2	7.9	6.5	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)