

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: P647272

Luminaire Tested: **GALN-SA2D-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647272
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-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 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: 12158.4 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

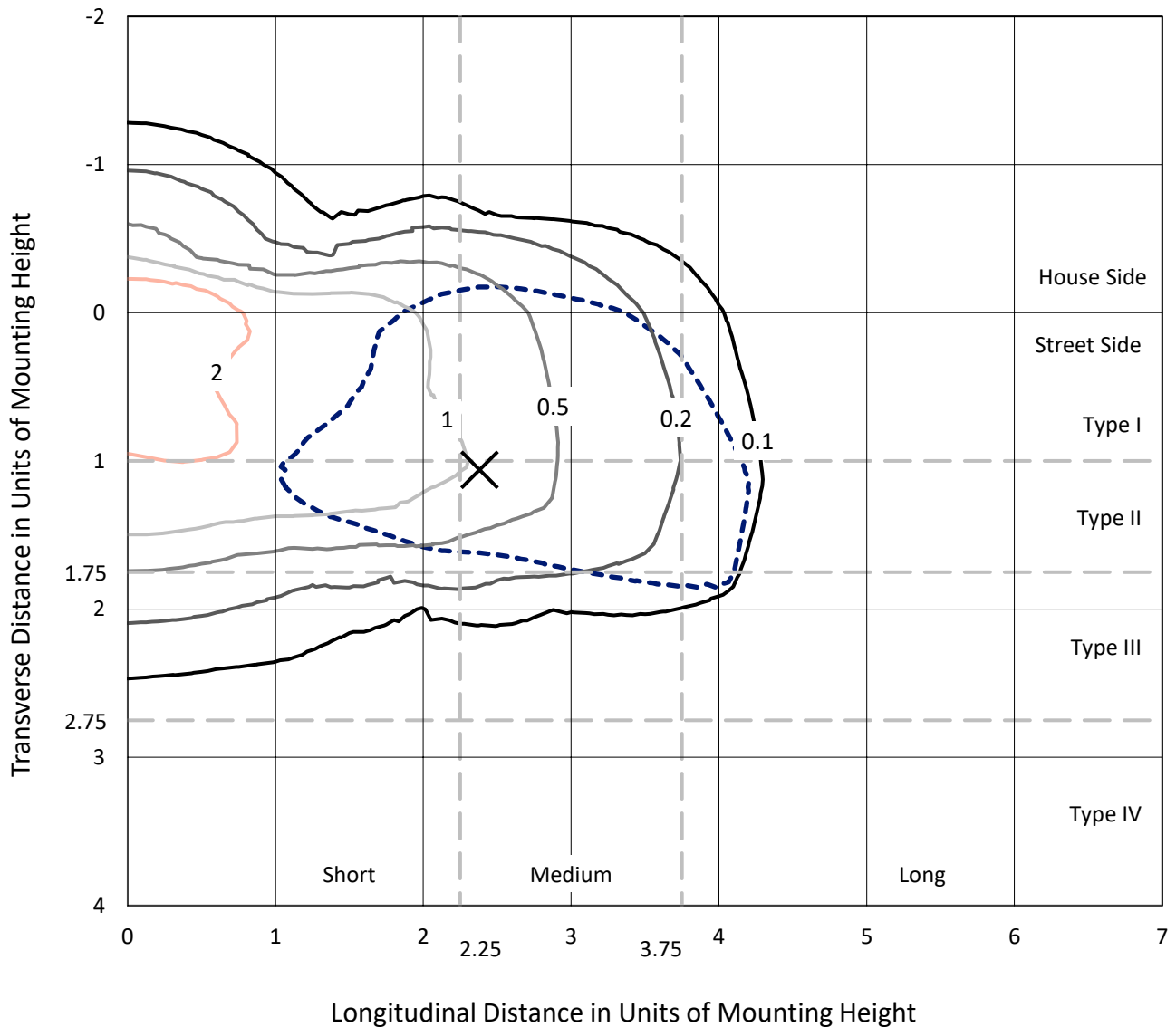
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647272
 CATALOG NUMBER: GALN-SA2D-835-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

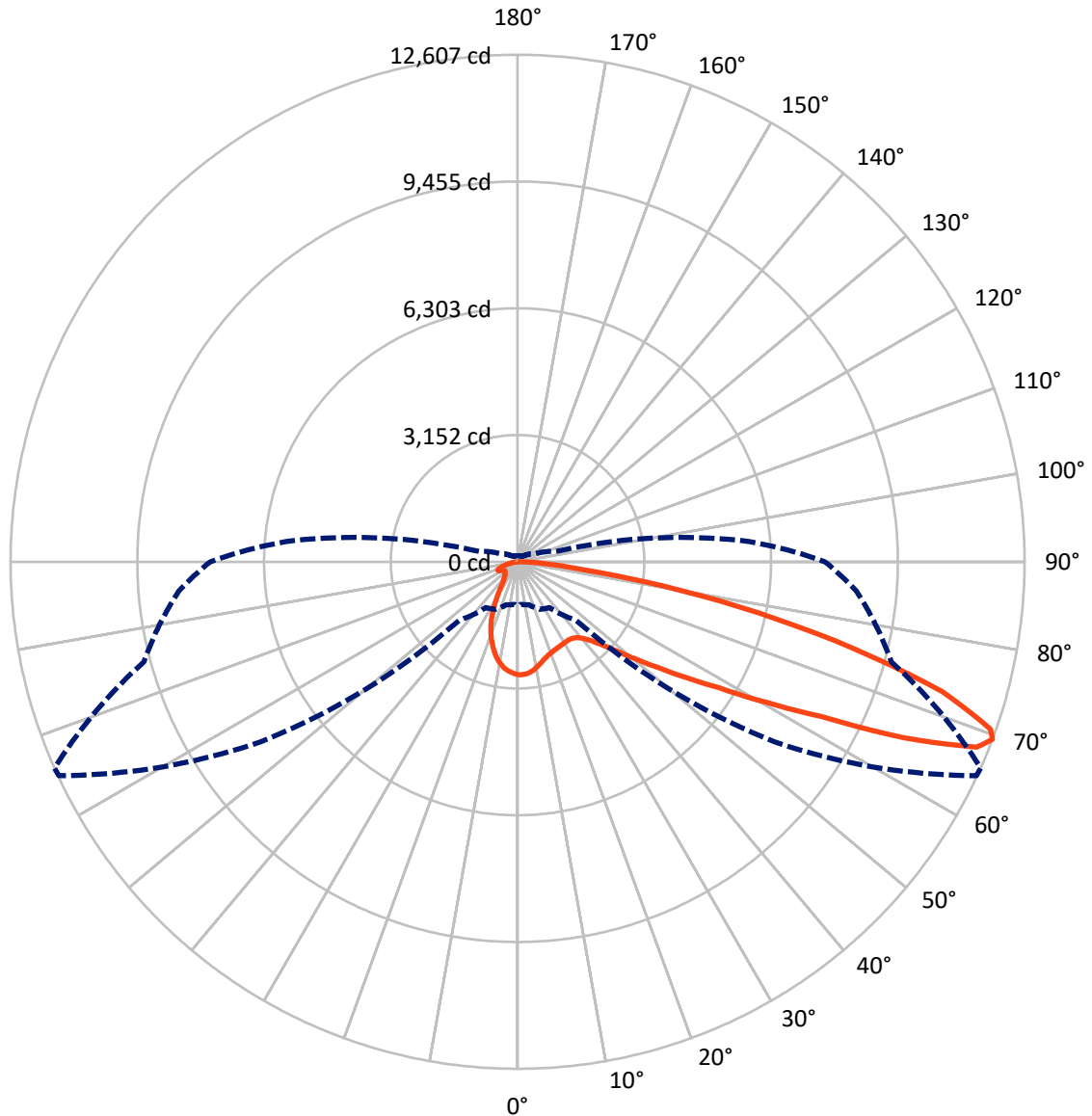
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P647272
CATALOG NUMBER: GALN-SA2D-835-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647272
 CATALOG NUMBER: GALN-SA2D-835-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2286.5	0.0	2286.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9871.9	0.0	9871.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	12158.4	0.0	12158.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	2.0
10°-20°	578.3	4.8
20°-30°	787.3	6.5
30°-40°	1058.0	8.7
40°-50°	1579.7	13.0
50°-60°	2512.8	20.7
60°-70°	3090.6	25.4
70°-80°	2010.9	16.5
80°-90°	296.9	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°	12158.4	100.0
0°-180°	12158.4	100.0

Coefficient of Utilization

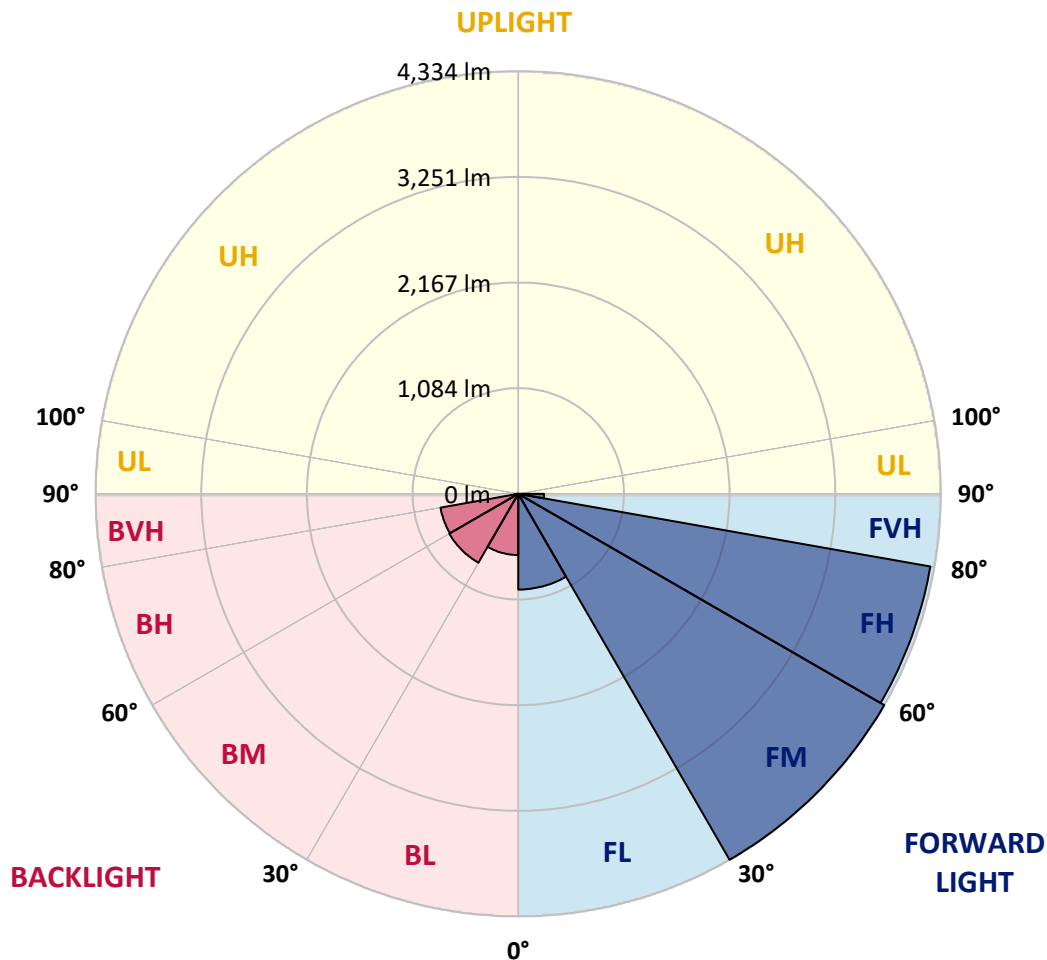


REPORT NUMBER: P647272
 CATALOG NUMBER: GALN-SA2D-835-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.8	8.1			
FM (30°-60°)	4334.1	35.6			
FH (60°-80°)	4292.0	35.3			G2/5000
FVH (80°-90°)	264.0	2.2			G3/500
BL (0°-30°)	627.7	5.2	B2/1000		
BM (30°-60°)	816.4	6.7	B1/1000		
BH (60°-80°)	809.5	6.7	B2/1000		G2/1000
BVH (80°-90°)	32.9	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-G3
 Type III Medium





REPORT NUMBER: P647272

CATALOG NUMBER: GALN-SA2D-835-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7
2.5°	2709.4	2720.2	2732.3	2745.7	2771.4	2785.5	2795.6	2807.1	2808.4	2814.4	2809.7
5°	2509.4	2522.2	2540.4	2566.0	2604.4	2664.3	2726.2	2776.8	2782.8	2811.0	2819.2
7.5°	2342.4	2349.9	2364.7	2405.8	2460.3	2527.0	2617.2	2719.5	2734.3	2801.7	2825.2
10°	2206.4	2213.9	2231.4	2273.8	2327.6	2411.2	2510.1	2644.7	2656.9	2772.7	2826.6
12.5°	2104.8	2111.5	2130.4	2172.1	2234.1	2312.1	2421.3	2564.0	2581.5	2734.3	2813.8
15°	2027.3	2040.1	2055.6	2090.0	2155.3	2230.7	2336.4	2489.9	2504.0	2693.9	2805.0
17.5°	1994.4	2000.4	2011.2	2042.8	2090.6	2164.7	2271.1	2432.0	2448.8	2665.6	2803.0
20°	1995.7	2001.7	2003.8	2021.3	2055.6	2119.6	2224.7	2386.2	2406.4	2640.7	2806.4
22.5°	2041.5	2042.1	2034.8	2028.7	2042.1	2095.4	2191.6	2351.9	2375.5	2629.9	2809.1
25°	2112.2	2124.3	2113.6	2085.3	2060.3	2085.9	2178.9	2333.0	2355.3	2614.5	2805.7
27.5°	2226.6	2228.7	2219.9	2181.5	2116.9	2098.0	2173.5	2318.9	2337.7	2603.0	2788.9
30°	2380.2	2374.1	2366.0	2323.6	2221.9	2144.5	2184.9	2306.1	2325.6	2586.2	2768.7
32.5°	2535.7	2554.5	2547.2	2497.3	2365.4	2234.8	2221.9	2304.8	2320.9	2573.4	2746.5
35°	2700.6	2709.4	2744.4	2718.8	2583.5	2380.9	2291.3	2325.6	2338.4	2574.1	2730.9
37.5°	2829.9	2853.5	2935.6	2957.9	2830.6	2574.1	2403.7	2384.9	2390.3	2607.1	2737.1
40°	2986.1	3026.5	3132.2	3223.1	3139.7	2825.2	2594.9	2494.6	2501.4	2686.6	2776.8
42.5°	3184.1	3212.4	3354.5	3477.7	3464.2	3157.1	2826.6	2674.4	2677.8	2844.7	2887.9
45°	3415.8	3456.1	3615.7	3800.8	3832.5	3532.9	3161.2	2946.4	2944.4	3090.5	3095.2
47.5°	3712.0	3736.9	3895.1	4097.1	4225.1	4004.9	3567.2	3336.9	3315.4	3448.7	3410.4
50°	3984.7	4023.8	4143.6	4364.4	4682.9	4557.7	4101.1	3843.3	3792.8	3917.3	3852.7
52.5°	4099.2	4140.2	4241.2	4515.2	5075.4	5272.7	4779.2	4447.2	4363.1	4458.7	4435.1
55°	3900.5	3953.7	4048.0	4381.3	5247.8	6097.5	5693.5	5145.5	5084.2	5043.1	5049.9
57.5°	3366.6	3417.1	3544.3	3911.9	5041.7	6696.1	6999.1	6043.0	5911.7	5722.5	5754.8
60°	2562.6	2594.3	2660.2	3067.6	4431.1	6851.6	8481.8	7177.5	7094.1	6399.1	6422.1
62.5°	1820.0	1855.6	1901.4	2104.8	3244.0	6413.3	9642.5	8761.8	8463.5	7100.1	7077.9
65°	1477.9	1453.7	1508.9	1603.8	1903.5	4970.4	9903.8	10960.9	10550.1	8023.2	7714.8
67.5°	1215.3	1189.8	1244.3	1413.3	1447.6	2885.1	8962.5	12388.3	12306.2	9027.1	8361.9
69°	1075.9	1062.5	1110.3	1302.8	1389.7	2048.9	7807.8	12587.0	12606.5	9618.9	8461.6
70°	969.6	975.0	1021.4	1247.0	1363.4	1689.3	6673.2	12312.9	12478.5	9914.6	8353.8
72.5°	713.7	725.1	789.8	1032.9	1338.5	1433.5	3971.2	10754.8	11047.7	9932.0	7642.1
75°	498.9	493.5	550.8	777.7	1264.5	1420.7	2332.3	8317.4	8649.4	8584.7	6421.4
77.5°	326.6	335.3	381.1	549.4	1063.9	1409.9	1520.4	5900.9	6116.4	5741.3	3798.2
80°	230.3	229.6	255.2	375.1	789.1	1354.7	1245.0	3719.4	3664.8	2256.3	1126.4
82.5°	131.9	141.4	171.0	263.9	527.9	1192.4	1145.3	1778.9	1624.0	643.0	380.5
85°	73.4	76.7	101.6	159.6	308.3	898.2	999.9	809.3	763.5	268.6	163.6
87.5°	23.6	25.6	42.4	80.8	140.1	424.2	566.3	373.7	344.8	96.9	66.0
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: P647272
 CATALOG NUMBER: GALN-SA2D-835-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7
2.5°	2811.8	2819.8	2798.3	2777.5	2758.6	2732.3	2708.7	2689.2	2675.7	2673.7	2667.0
5°	2821.1	2821.9	2780.8	2725.5	2671.7	2612.5	2551.2	2507.4	2466.4	2443.4	2432.0
7.5°	2827.9	2821.9	2747.8	2658.2	2554.5	2446.8	2339.1	2252.9	2186.2	2160.0	2170.1
10°	2825.2	2806.4	2698.0	2554.5	2403.7	2242.8	2087.9	1966.7	1855.6	1798.4	1799.8
12.5°	2810.4	2779.4	2623.9	2438.1	2216.5	2001.1	1764.1	1600.5	1471.9	1395.8	1372.2
15°	2797.6	2743.8	2537.1	2279.9	2004.5	1696.8	1407.9	1205.9	1098.2	1038.3	1037.6
17.5°	2784.1	2709.4	2442.1	2112.2	1760.7	1364.8	1061.8	907.7	857.2	863.2	853.1
20°	2770.0	2669.0	2343.1	1925.7	1463.8	1018.1	795.2	732.6	746.7	774.3	778.4
22.5°	2753.9	2625.9	2236.7	1720.3	1151.4	766.2	645.0	635.6	672.0	715.0	721.1
25°	2728.9	2572.1	2102.7	1505.6	888.1	617.4	564.9	571.7	607.3	643.7	647.7
27.5°	2693.9	2505.4	1967.4	1237.5	667.3	529.9	516.5	525.2	542.7	564.9	570.3
30°	2646.8	2430.0	1811.9	1005.9	534.6	486.2	480.8	485.5	495.6	505.0	507.7
32.5°	2599.6	2357.3	1655.0	770.2	476.7	457.2	451.8	451.8	451.8	453.1	453.8
35°	2555.9	2288.6	1486.7	599.9	446.4	434.3	426.9	418.8	417.4	412.7	412.7
37.5°	2531.7	2226.0	1307.6	502.3	424.2	415.5	405.4	391.9	384.5	385.2	383.8
40°	2536.4	2184.9	1144.7	447.1	406.0	396.6	381.1	365.6	360.9	360.9	359.6
42.5°	2589.5	2171.4	988.5	418.1	388.5	377.7	358.2	344.1	341.4	340.7	342.0
45°	2712.1	2204.5	848.4	399.3	373.7	357.5	338.0	325.2	322.5	322.5	321.8
47.5°	2951.1	2311.5	748.1	387.2	362.9	342.0	321.8	309.1	304.4	303.0	303.0
50°	3322.8	2543.8	673.3	376.4	349.5	327.9	307.0	292.2	284.8	284.2	283.4
52.5°	3839.2	2906.0	644.3	368.3	334.7	313.1	290.2	276.1	266.6	264.6	263.2
55°	4443.2	3411.7	684.1	362.2	319.2	296.3	272.7	257.8	249.2	245.1	244.4
57.5°	5142.7	4019.0	834.9	354.2	305.0	278.0	255.2	240.4	231.0	226.2	224.9
60°	5770.9	4643.2	1098.2	349.5	292.9	258.5	235.0	221.5	212.7	208.0	207.4
62.5°	6461.1	5238.3	1412.6	362.2	287.5	239.7	216.1	204.0	196.6	191.9	191.9
65°	7198.4	5834.3	1620.7	405.4	295.6	224.9	195.9	185.8	179.1	175.7	175.1
67.5°	7695.3	6040.3	1335.2	449.8	315.8	208.7	176.4	168.3	164.3	160.9	160.9
69°	7641.5	5779.7	985.1	461.2	321.8	200.7	165.6	159.6	154.2	152.8	151.5
70°	7471.1	5482.8	825.5	453.8	317.1	193.2	158.9	151.5	146.8	145.4	144.8
72.5°	6654.3	4754.9	614.7	394.6	270.0	167.6	140.7	134.0	130.0	127.9	127.9
75°	5528.6	3886.3	480.1	313.7	211.4	141.4	120.5	115.1	111.7	110.4	109.8
77.5°	3098.6	2170.1	344.8	245.8	160.3	114.5	101.0	96.3	92.9	91.5	91.5
80°	863.2	620.1	202.6	162.2	109.1	86.8	80.1	76.7	72.0	68.7	70.7
82.5°	325.2	268.6	115.8	97.6	69.4	57.9	55.9	53.2	51.2	46.4	46.4
85°	158.2	130.6	74.1	51.8	38.4	30.3	29.0	27.6	26.2	22.9	23.6
87.5°	54.6	57.9	32.3	18.9	11.4	7.4	6.0	3.4	3.4	3.4	3.4
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)