

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: P651786

Luminaire Tested: **GALN-SA3A-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11379.6 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

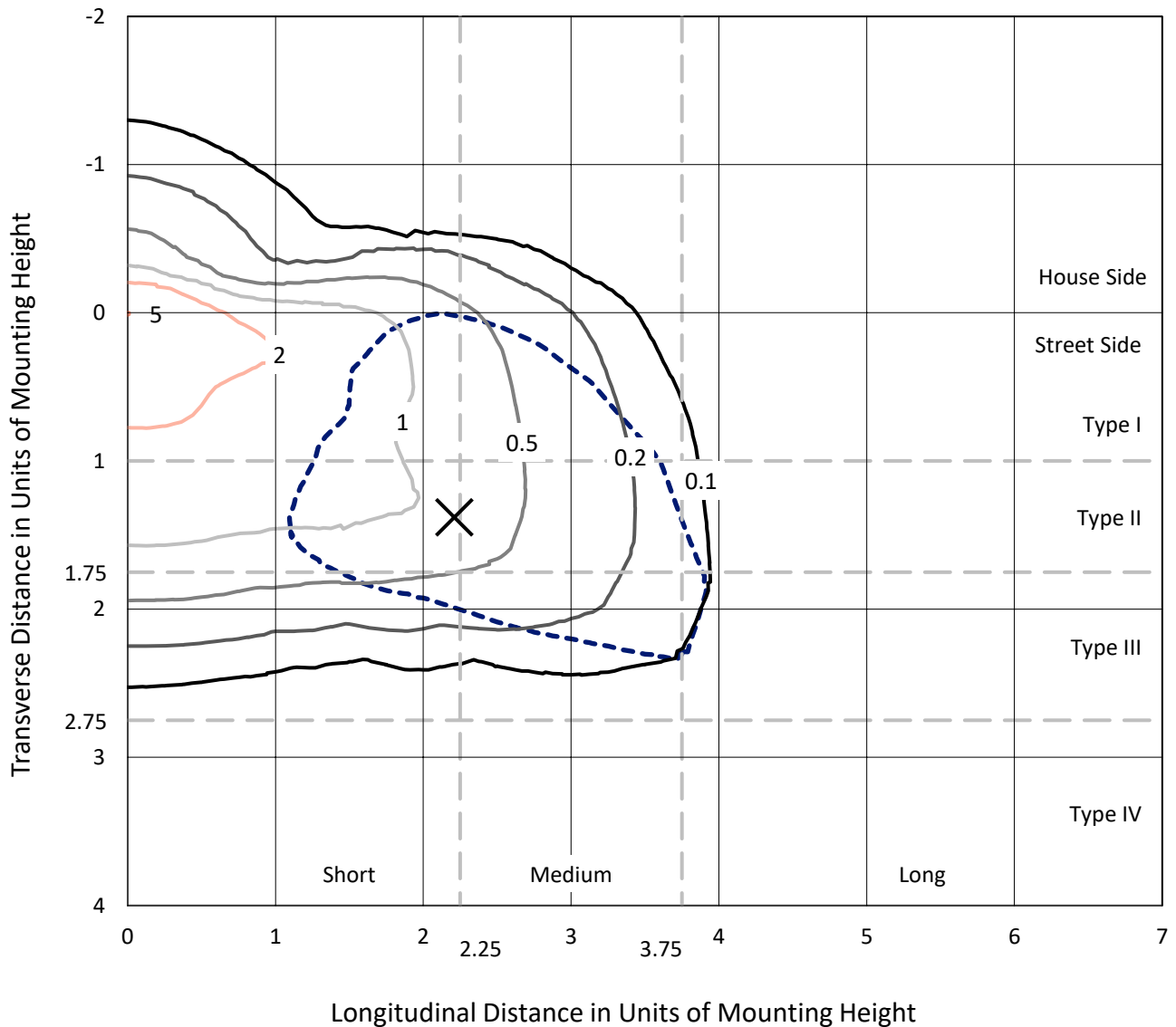
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651786
 CATALOG NUMBER: GALN-SA3A-840-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

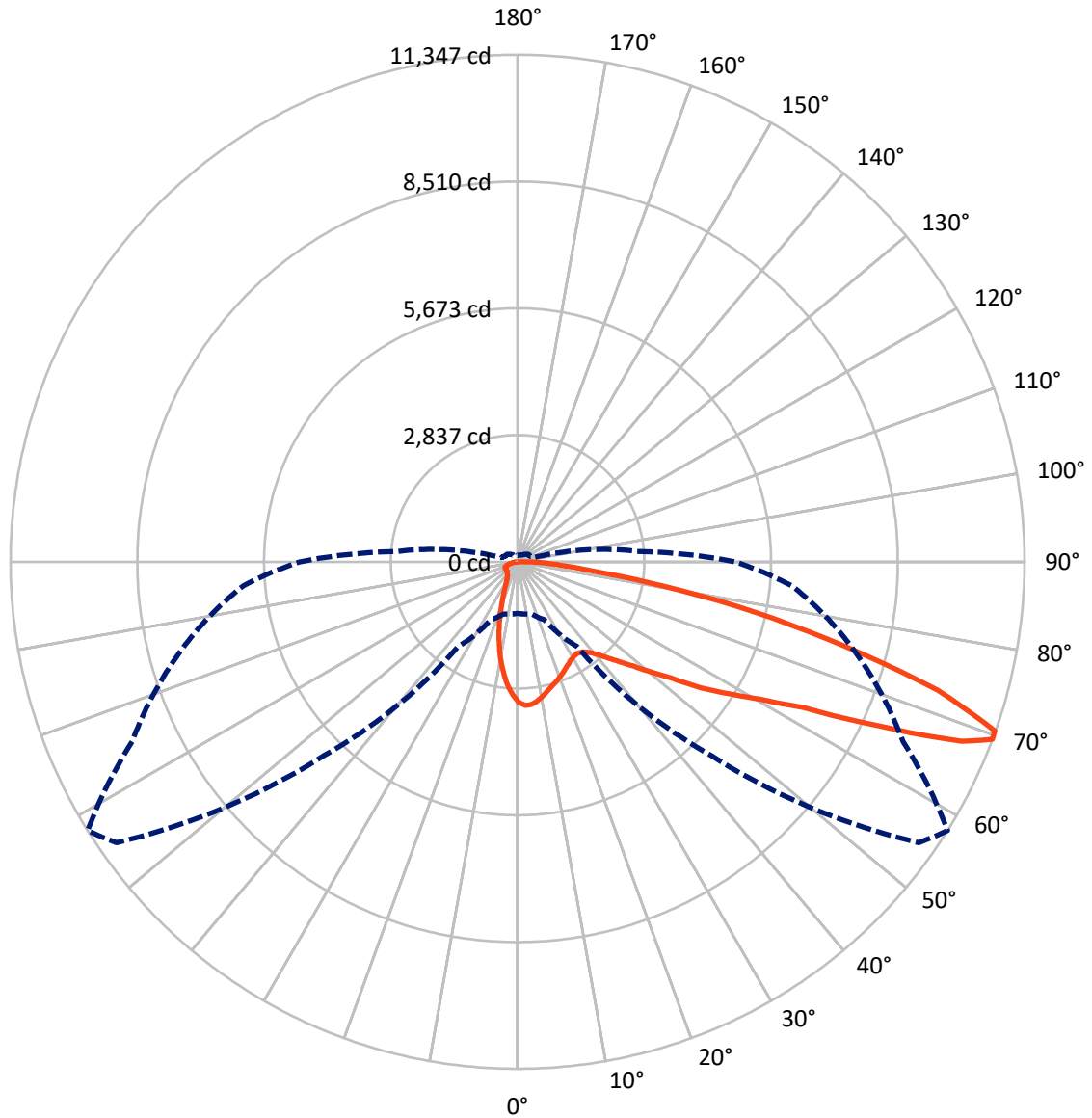
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

REPORT NUMBER: P651786
CATALOG NUMBER: GALN-SA3A-840-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GALN-SA3A-840-U-SL3

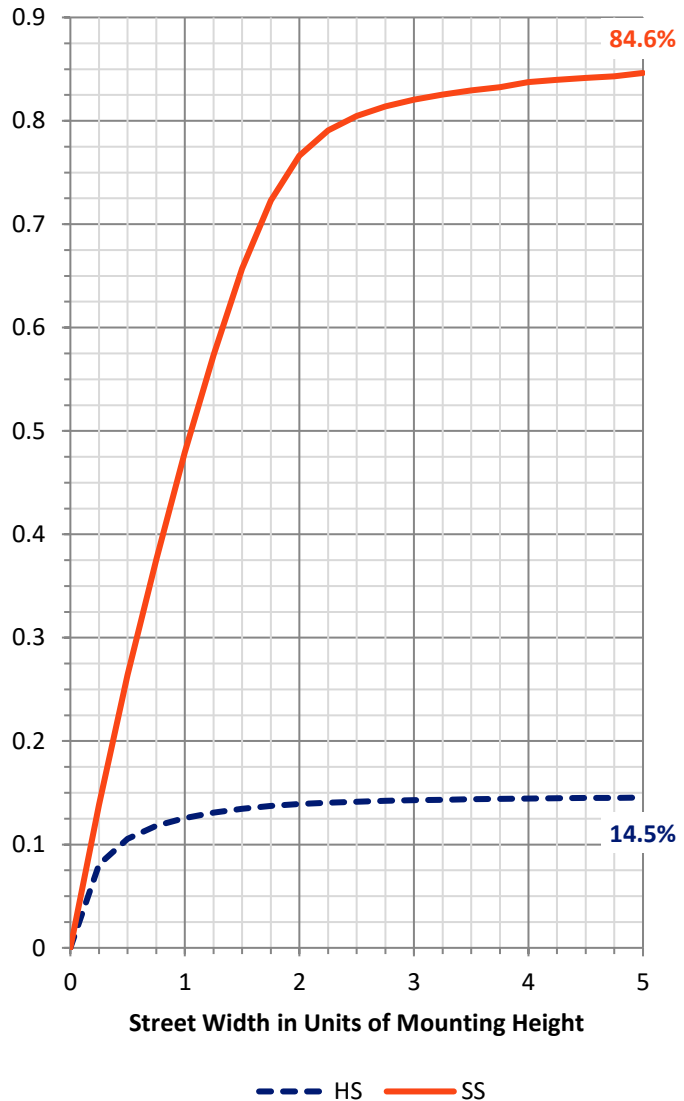
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1667.7	0.0	1667.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9711.9	0.0	9711.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	11379.6	0.0	11379.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.1	2.3
10°-20°	586.4	5.2
20°-30°	757.7	6.7
30°-40°	984.0	8.6
40°-50°	1430.7	12.6
50°-60°	2282.9	20.1
60°-70°	3049.6	26.8
70°-80°	1758.0	15.4
80°-90°	263.3	2.3
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°	11379.6	100.0
0°-180°	11379.6	100.0

Coefficient of Utilization



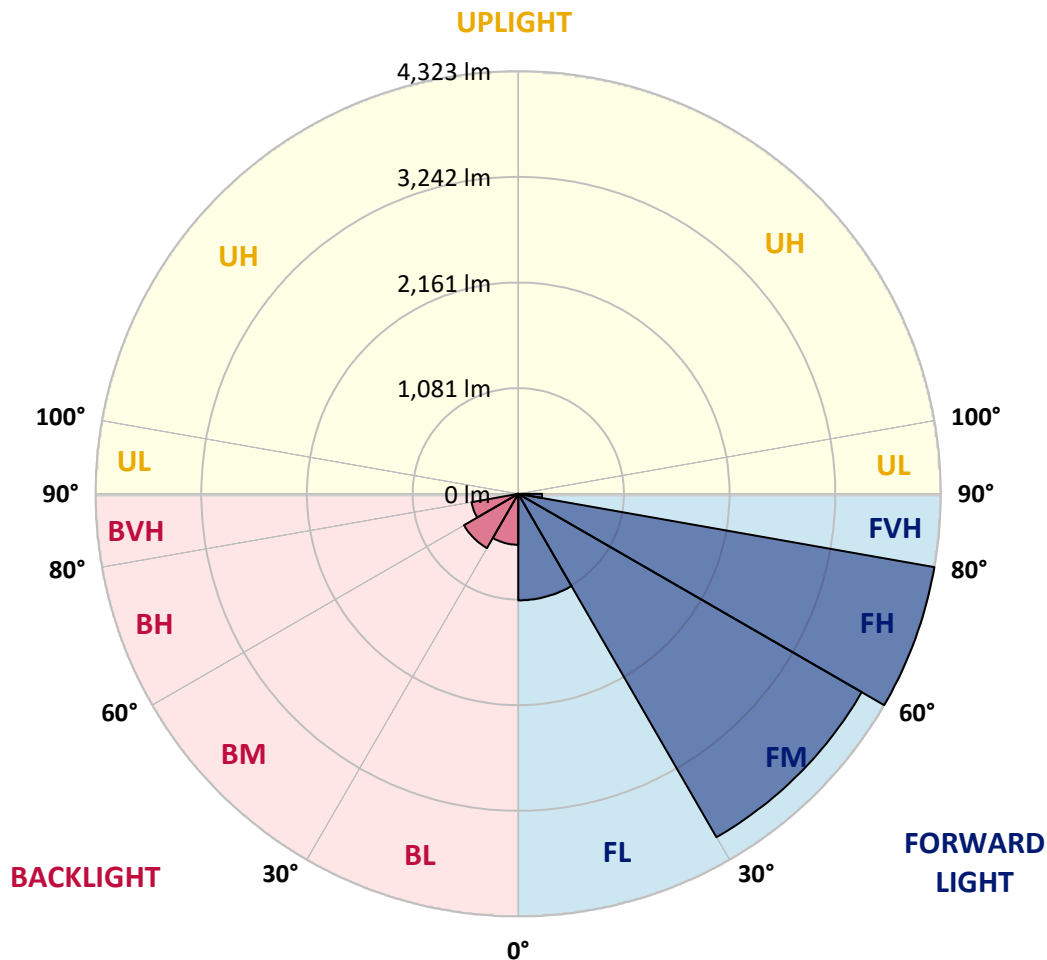
REPORT NUMBER: P651786
 CATALOG NUMBER: GALN-SA3A-840-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.9	9.6			
FM (30°-60°)	4056.2	35.6			
FH (60°-80°)	4322.7	38.0			G2/5000
FVH (80°-90°)	243.1	2.1			G3/500
BL (0°-30°)	521.2	4.6	B2/1000		
BM (30°-60°)	641.3	5.6	B1/1000		
BH (60°-80°)	484.9	4.3	B1/500		G1/500
BVH (80°-90°)	20.2	0.2			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 Short





REPORT NUMBER: P651786

CATALOG NUMBER: GALN-SA3A-840-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7
2.5°	3261.4	3270.3	3267.8	3264.6	3259.5	3245.6	3222.7	3218.9	3204.3	3173.2	3134.5
5°	3211.3	3218.9	3219.5	3224.0	3230.4	3227.8	3211.3	3209.3	3187.8	3145.9	3081.2
7.5°	3039.3	3049.5	3071.7	3096.4	3118.6	3139.5	3144.7	3147.8	3134.5	3086.3	2999.9
10°	2845.7	2855.9	2866.0	2902.9	2957.5	3009.4	3052.7	3058.3	3061.5	3017.1	2911.7
12.5°	2631.2	2652.2	2673.7	2728.3	2801.3	2883.2	2959.3	2971.4	2993.0	2959.3	2835.6
15°	2449.1	2470.7	2501.7	2550.6	2638.8	2756.9	2864.1	2883.8	2926.3	2909.2	2764.5
17.5°	2322.8	2330.4	2351.9	2407.9	2503.0	2627.5	2770.8	2810.2	2878.1	2873.7	2703.6
20°	2223.2	2232.7	2246.0	2280.3	2379.3	2510.6	2683.9	2734.7	2826.7	2841.9	2643.3
22.5°	2181.3	2188.3	2186.3	2204.8	2272.0	2404.0	2595.7	2656.0	2781.0	2820.4	2587.4
25°	2183.8	2190.1	2180.6	2176.2	2216.2	2310.1	2503.7	2580.4	2744.2	2805.7	2536.6
27.5°	2226.3	2230.8	2213.0	2195.3	2198.4	2251.7	2427.5	2512.6	2713.1	2812.1	2494.2
30°	2283.4	2291.7	2280.3	2258.7	2235.2	2237.7	2378.6	2462.4	2698.5	2834.3	2473.8
32.5°	2357.1	2364.6	2359.6	2342.4	2312.0	2278.4	2366.6	2444.0	2699.8	2879.3	2469.4
35°	2434.4	2449.7	2458.0	2456.7	2431.9	2373.6	2414.2	2478.3	2730.2	2954.9	2495.4
37.5°	2522.1	2534.8	2570.3	2593.1	2570.3	2502.4	2521.4	2565.9	2797.5	3064.0	2552.5
40°	2607.1	2626.1	2678.2	2749.2	2740.4	2680.7	2685.1	2714.3	2916.2	3226.5	2664.2
42.5°	2696.0	2718.8	2809.5	2914.9	2935.8	2889.5	2901.6	2927.6	3085.0	3451.8	2855.9
45°	2810.2	2837.4	2949.2	3080.6	3163.1	3134.5	3168.8	3181.4	3310.9	3745.1	3108.5
47.5°	2957.5	2989.2	3126.8	3290.6	3407.4	3433.4	3493.1	3485.4	3590.8	4092.1	3435.9
50°	3205.6	3223.3	3353.4	3520.3	3680.9	3798.3	3863.0	3875.2	3938.0	4429.8	3802.2
52.5°	3500.7	3516.6	3610.5	3756.4	3957.7	4206.4	4366.3	4326.9	4342.3	4841.0	4230.5
55°	3832.6	3859.3	3918.9	4016.0	4276.8	4643.1	4964.2	4973.7	4804.9	5234.6	4641.1
57.5°	4089.6	4134.7	4236.9	4375.2	4705.9	5128.5	5560.1	5566.4	5350.7	5654.6	5094.3
60°	3960.2	4013.5	4247.0	4584.0	5268.8	5975.8	6272.2	6236.0	5881.9	6133.2	5647.1
62.5°	3401.7	3411.2	3750.7	4277.5	5442.0	7109.2	7332.0	7179.0	6590.7	6739.9	6208.7
65°	2201.6	2263.8	2532.8	3270.9	4872.8	7738.2	9188.9	8835.5	7584.6	7428.5	6679.0
67.5°	1389.8	1374.0	1485.7	1867.8	3351.6	7184.2	10773.6	10717.8	8884.3	7863.2	6566.6
69°	1152.5	1170.3	1208.3	1431.7	2306.3	6133.8	10960.9	11346.8	9514.6	7829.0	6158.6
70°	1045.3	1053.5	1093.5	1269.3	1779.6	5137.4	10653.7	11329.6	9762.1	7685.5	5862.8
72.5°	829.5	828.8	897.3	1056.0	1330.2	2932.7	8747.9	9836.3	9485.4	7017.9	4844.2
75°	630.2	640.3	715.9	893.6	1225.5	1602.4	6104.7	7575.1	7575.7	5542.9	3022.8
77.5°	454.4	460.8	549.0	750.2	1154.4	1299.1	4066.2	5433.2	5107.6	2539.8	950.1
80°	297.6	301.4	368.7	594.0	1040.8	1225.5	2411.0	3325.5	2409.1	674.0	314.1
82.5°	163.1	182.2	225.3	384.6	835.2	1132.2	1465.4	1683.1	903.7	300.2	163.7
85°	81.8	87.0	126.9	224.6	545.8	936.7	1020.5	965.3	466.5	149.1	85.0
87.5°	24.1	30.4	52.6	87.0	221.5	488.0	568.0	509.6	179.6	53.9	17.7
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: P651786
 CATALOG NUMBER: GALN-SA3A-840-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7
2.5°	3118.6	3107.2	3056.4	3010.7	2968.8	2924.4	2887.0	2854.0	2857.1	2857.8	2824.2
5°	3047.5	3021.5	2925.1	2834.9	2758.8	2662.4	2579.9	2526.5	2499.9	2464.3	2477.0
7.5°	2951.1	2900.9	2767.1	2617.3	2477.0	2351.9	2216.2	2122.9	2063.2	2005.4	2013.1
10°	2851.4	2770.8	2576.0	2378.0	2196.5	1996.6	1823.3	1674.9	1564.4	1523.1	1495.9
12.5°	2749.2	2643.3	2395.8	2132.4	1881.7	1642.5	1396.8	1237.5	1115.7	1051.0	1059.2
15°	2656.0	2527.1	2207.9	1886.8	1561.2	1276.3	1031.3	879.6	794.6	776.8	786.9
17.5°	2569.7	2400.9	2032.1	1648.2	1268.0	957.1	774.9	689.2	655.0	645.5	644.8
20°	2480.8	2293.6	1834.7	1393.0	988.2	741.9	635.9	595.9	589.5	593.4	594.0
22.5°	2390.7	2160.9	1631.6	1139.8	786.9	606.7	556.0	545.1	550.3	559.1	560.4
25°	2307.5	2044.2	1436.2	917.7	628.3	533.1	508.4	508.4	519.7	533.1	533.7
27.5°	2239.0	1931.2	1241.4	728.6	526.1	479.8	471.5	476.0	491.8	502.0	502.7
30°	2182.6	1825.9	1057.3	583.9	462.6	437.2	435.4	443.0	454.4	463.9	464.6
32.5°	2140.0	1733.2	885.3	490.6	418.9	404.9	404.3	410.0	416.3	418.9	421.4
35°	2123.5	1656.4	728.0	431.5	389.6	380.8	380.8	380.1	382.7	383.9	385.3
37.5°	2136.8	1597.4	606.1	393.5	368.1	361.7	357.9	354.1	352.9	352.9	353.5
40°	2193.3	1566.3	515.4	368.7	352.9	343.4	336.4	331.9	327.5	328.7	330.0
42.5°	2313.3	1572.0	453.8	352.2	339.5	326.2	316.0	311.0	307.8	311.6	311.0
45°	2504.3	1629.1	414.4	340.8	326.2	309.1	299.6	294.4	294.4	300.2	302.1
47.5°	2771.5	1738.3	393.5	331.9	316.0	295.8	286.2	282.4	283.7	293.2	293.8
50°	3097.7	1928.1	389.6	327.5	311.0	286.2	275.4	271.6	274.8	284.9	286.2
52.5°	3457.5	2172.4	408.1	328.1	306.5	280.5	266.5	260.9	264.0	272.2	274.8
55°	3884.0	2478.3	455.7	330.7	300.2	277.4	260.2	247.5	251.3	257.0	257.7
57.5°	4319.4	2864.1	539.4	331.3	295.1	271.6	249.4	232.9	232.9	236.7	238.6
60°	4851.2	3284.3	649.8	331.9	295.8	263.4	234.8	216.4	213.9	215.8	216.4
62.5°	5379.2	3635.9	668.3	330.0	302.1	255.2	218.9	199.9	195.4	194.9	193.6
65°	5612.2	3570.5	547.7	321.1	309.1	250.0	206.3	184.0	176.4	173.9	173.9
67.5°	5232.6	3020.3	411.9	309.1	304.6	245.0	194.2	170.7	161.8	156.8	156.8
69°	4875.9	2686.4	370.0	300.8	293.2	236.7	186.6	163.7	153.0	147.3	145.3
70°	4600.5	2456.7	352.2	293.8	282.4	227.2	180.9	158.7	146.6	140.3	139.0
72.5°	3671.4	1927.4	308.4	267.2	240.5	191.0	160.5	142.8	131.4	124.4	122.4
75°	2115.9	1044.6	255.7	232.3	193.6	148.5	135.8	124.4	115.5	109.2	107.2
77.5°	651.1	403.6	185.4	183.4	142.1	114.9	108.5	104.1	97.7	90.7	89.5
80°	274.2	205.6	125.6	123.8	94.5	80.0	78.0	77.5	74.8	69.2	67.3
82.5°	150.4	116.1	87.5	76.2	57.1	46.3	48.3	48.9	46.9	41.3	37.4
85°	73.6	63.5	42.6	34.2	26.0	16.5	15.9	19.0	17.7	12.7	14.0
87.5°	14.6	17.7	11.4	5.0	2.5	0.0	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)