

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: P647874

Luminaire Tested: **GALN-SA4A-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8267.7 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

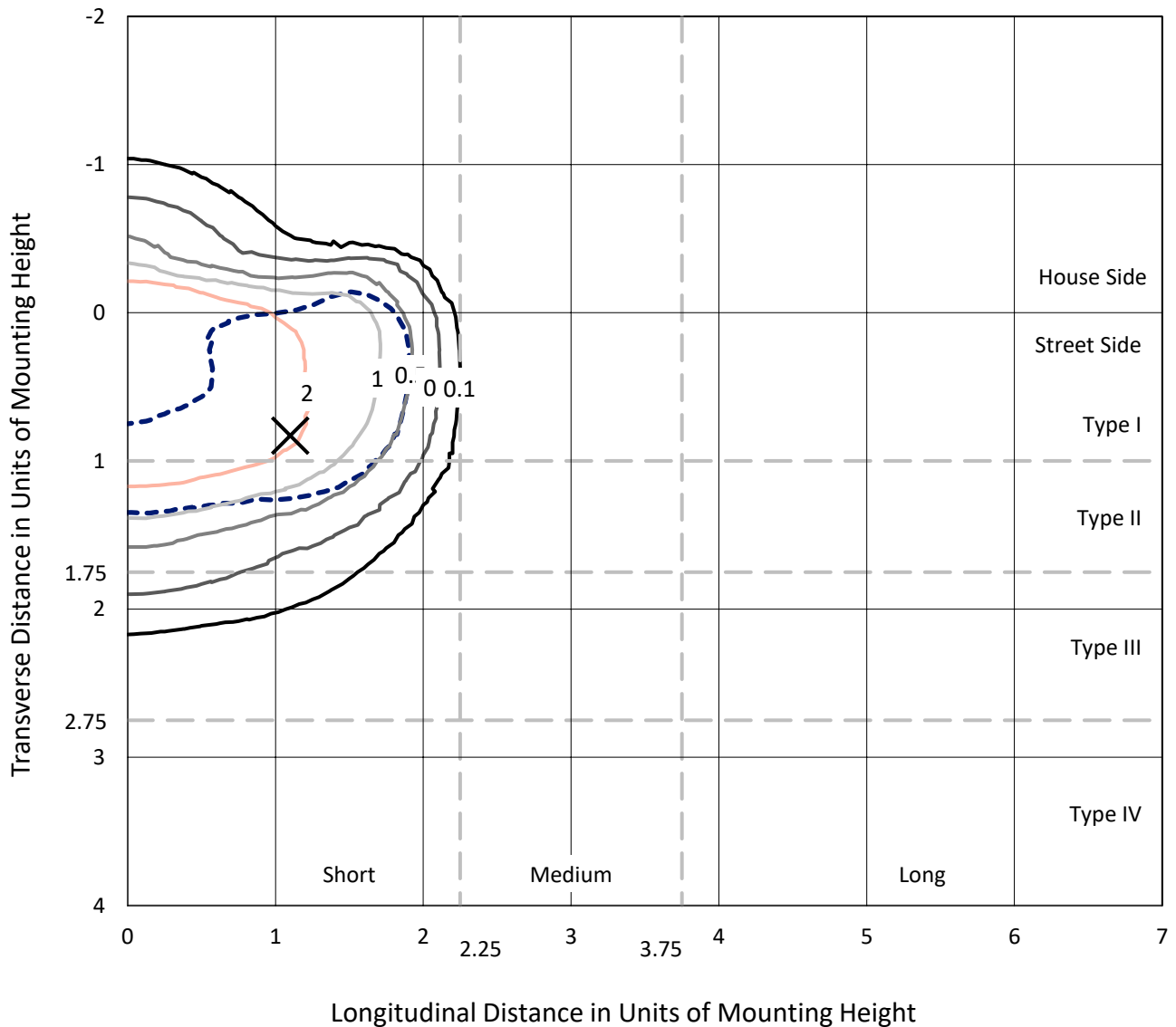
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647874
 CATALOG NUMBER: GALN-SA4A-835-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

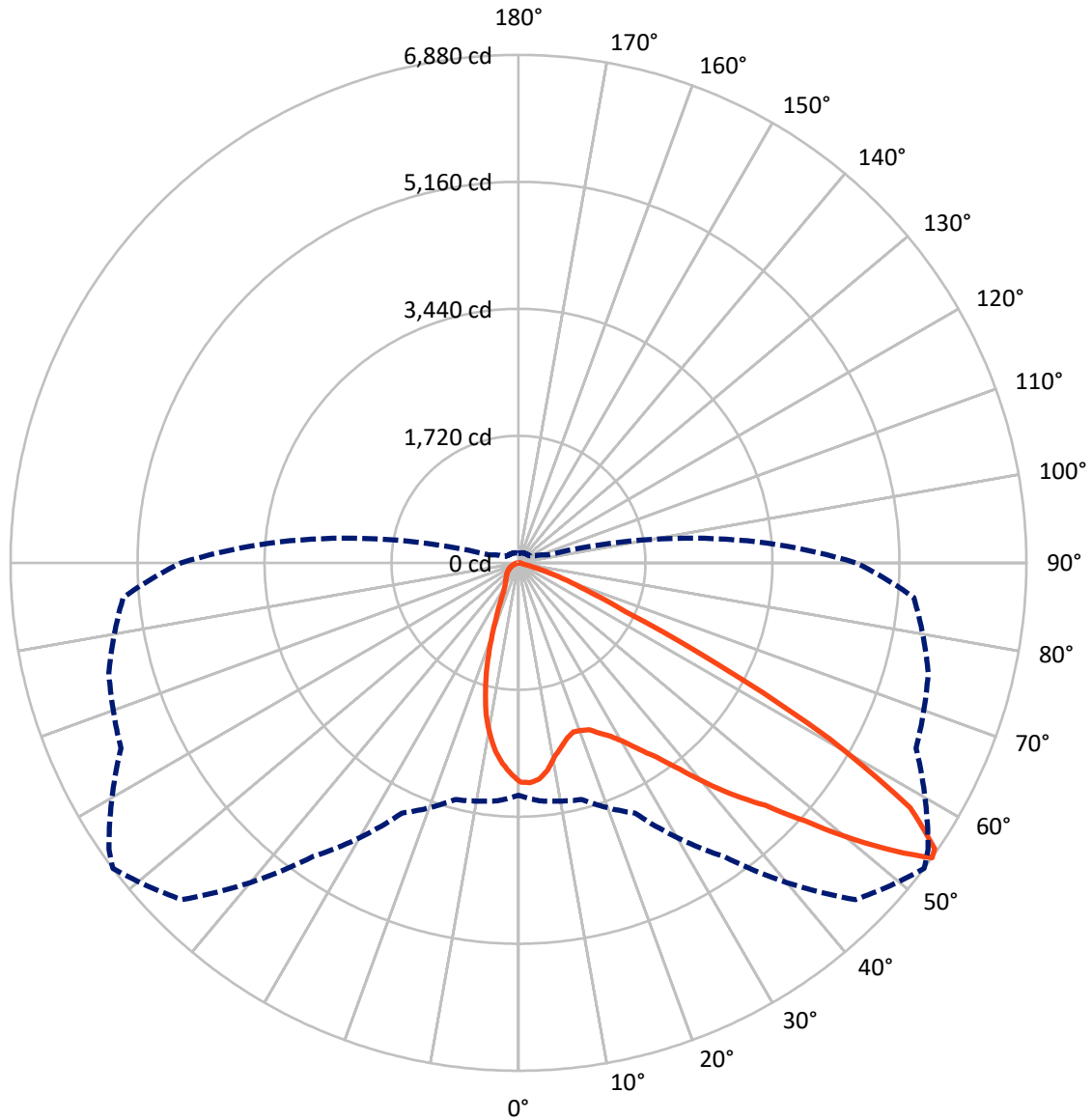
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P647874
CATALOG NUMBER: GALN-SA4A-835-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P647874
 CATALOG NUMBER: GALN-SA4A-835-U-SL2-GRSBK

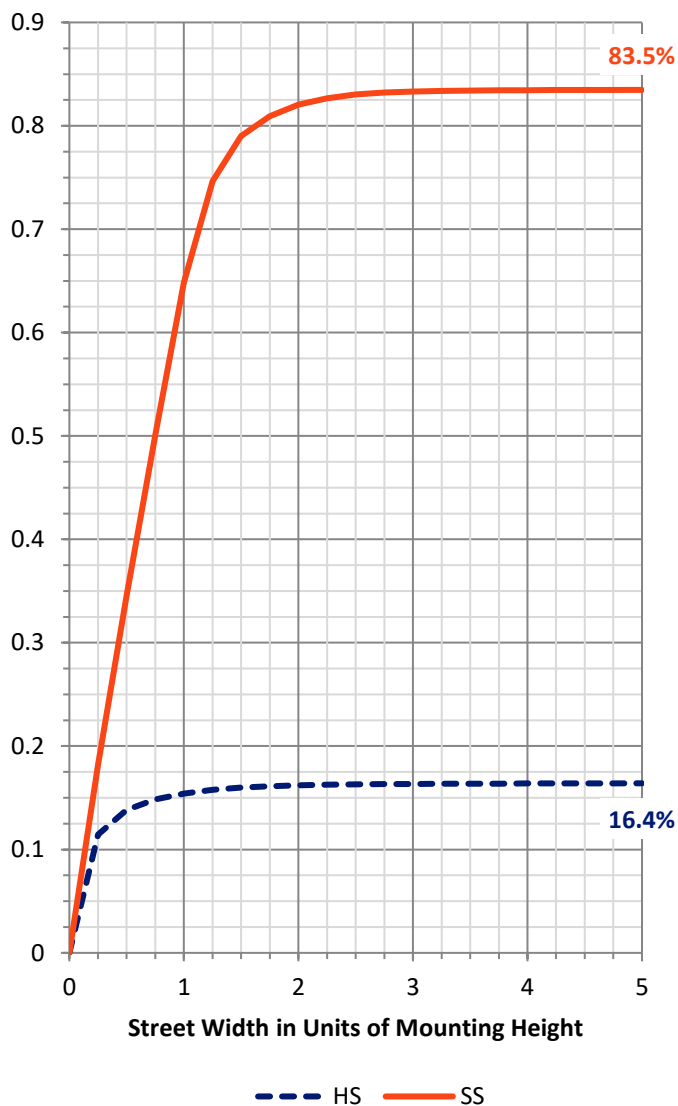
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1367.9	0.0	1367.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6899.8	0.0	6899.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	8267.7	0.0	8267.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.8	3.1
10°-20°	584.1	7.1
20°-30°	830.2	10.0
30°-40°	1281.2	15.5
40°-50°	2008.8	24.3
50°-60°	2333.5	28.2
60°-70°	881.7	10.7
70°-80°	83.8	1.0
80°-90°	9.4	0.1
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°	8267.7	100.0
0°-180°	8267.7	100.0

Coefficient of Utilization

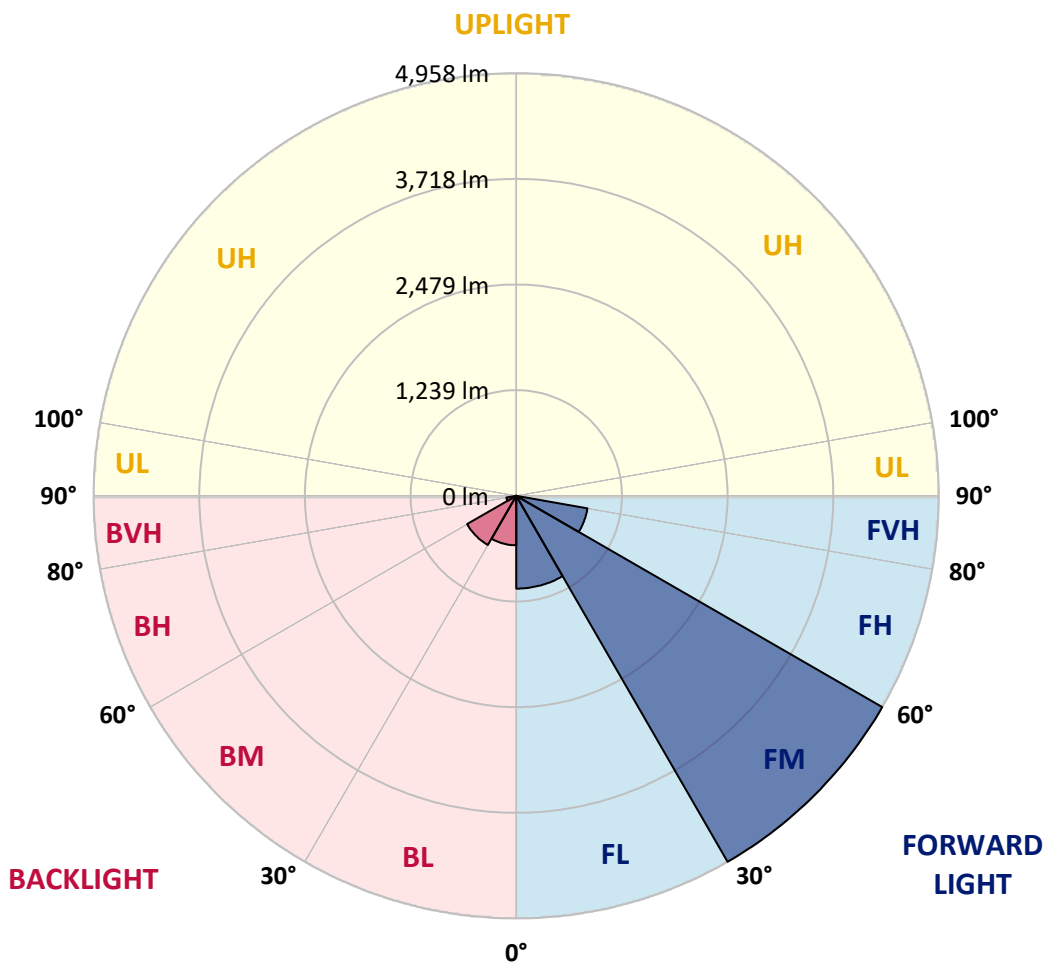


REPORT NUMBER: P647874
 CATALOG NUMBER: GALN-SA4A-835-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.6	13.2			
FM (30°-60°)	4957.9	60.0			
FH (60°-80°)	848.4	10.3			G1/1800
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	580.5	7.0	B2/1000		
BM (30°-60°)	665.7	8.1	B1/1000		
BH (60°-80°)	117.2	1.4	B1/500		G1/500
BVH (80°-90°)	4.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





REPORT NUMBER: P647874

CATALOG NUMBER: GALN-SA4A-835-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2969.6	2969.6	2969.6	2969.6	2969.6	2969.6	2969.6	2969.6	2969.6	2969.6	2969.6
2.5°	2954.2	2928.0	2954.2	2957.3	2975.8	2992.7	2982.0	3006.6	2992.7	2977.4	2972.7
5°	2715.4	2750.9	2752.5	2807.9	2795.5	2897.3	2941.9	2929.6	3005.1	3000.5	2989.7
7.5°	2501.4	2487.5	2506.0	2570.7	2652.3	2769.4	2834.1	2832.5	2940.3	3017.4	3009.7
10°	2302.7	2301.2	2339.7	2390.5	2459.8	2583.0	2672.4	2717.0	2884.9	3001.9	3018.9
12.5°	2168.7	2162.5	2204.1	2245.7	2355.0	2450.6	2564.6	2586.1	2778.6	2948.1	2975.8
15°	2080.9	2094.8	2097.8	2177.9	2247.2	2373.5	2462.8	2507.6	2729.3	2904.9	3011.2
17.5°	2065.5	2084.0	2085.5	2151.8	2225.7	2331.9	2410.5	2470.6	2687.7	2926.5	3012.7
20°	2096.3	2085.5	2094.8	2136.3	2208.8	2310.4	2424.4	2444.4	2673.9	2937.3	3029.7
22.5°	2184.1	2181.0	2157.9	2191.8	2242.6	2348.9	2456.7	2487.5	2714.0	2992.7	3043.5
25°	2281.1	2298.0	2276.5	2271.9	2307.3	2412.0	2555.3	2595.3	2847.9	3092.8	3086.7
27.5°	2462.8	2445.9	2445.9	2424.4	2415.2	2466.0	2661.6	2727.8	2997.3	3222.2	3136.0
30°	2636.9	2655.4	2641.5	2649.3	2587.7	2583.0	2812.5	2894.1	3262.3	3419.4	3240.7
32.5°	2912.6	2888.0	2911.1	2891.1	2809.4	2726.2	3017.4	3102.1	3582.6	3645.8	3397.8
35°	3142.1	3131.4	3230.0	3226.8	3094.4	3012.7	3234.6	3360.9	3806.0	3916.9	3582.6
37.5°	3468.7	3448.6	3561.1	3615.0	3496.4	3374.7	3545.7	3692.0	4013.9	4134.1	3772.1
40°	3804.4	3855.3	4006.2	4095.6	3969.3	3807.5	3926.1	3970.7	4152.6	4275.7	3901.5
42.5°	4229.5	4303.4	4457.5	4534.5	4523.7	4348.2	4312.7	4311.2	4252.6	4235.7	3997.0
45°	4637.7	4610.0	4847.2	5015.1	5150.7	5099.8	4685.5	4639.3	4411.3	4295.8	4021.6
47.5°	4816.4	4807.2	4968.8	5267.7	5729.8	5792.9	5227.6	5048.9	4679.3	4548.4	4155.6
50°	4585.3	4633.1	4793.3	5124.4	5833.0	6315.1	5893.0	5652.7	4991.9	4856.4	4472.9
52.5°	3830.6	3862.9	4015.5	4435.9	5481.8	6623.1	6530.7	6392.1	5566.5	5341.6	5025.8
54°	3149.9	3236.1	3319.3	3741.3	4856.4	6452.2	6880.3	6774.0	5940.8	5745.2	5374.0
55°	2743.2	2794.1	2854.1	3274.6	4423.6	6162.6	6840.3	6849.5	6191.8	5871.5	5608.1
57.5°	2003.9	2039.3	1977.7	2164.1	3037.4	5004.3	6256.6	6506.0	6530.7	6060.9	5751.3
60°	1531.0	1546.4	1477.1	1506.3	1888.4	3434.8	4839.5	5139.8	5891.4	5296.9	4871.8
62.5°	1187.6	1190.6	1189.1	1239.9	1301.5	2020.8	3026.6	3293.1	4061.7	3761.3	3308.5
65°	874.8	861.0	885.7	1039.7	1110.5	1270.7	1594.2	1788.2	2207.2	1863.7	1332.4
67.5°	566.8	571.4	596.1	773.2	951.9	975.0	981.2	965.8	967.3	532.9	334.3
70°	340.4	348.1	340.4	437.5	680.8	699.3	639.2	623.8	486.7	126.3	124.7
72.5°	201.8	191.0	171.0	187.9	283.4	338.9	305.0	303.4	191.0	73.9	73.9
75°	84.7	77.0	63.2	57.0	75.5	72.4	72.4	64.7	50.8	49.3	46.2
77.5°	16.9	16.9	12.3	13.9	18.5	21.5	26.2	26.2	30.8	30.8	29.3
80°	0.0	1.6	4.6	9.2	13.9	20.0	23.1	23.1	26.2	26.2	21.5
82.5°	0.0	1.6	4.6	9.2	12.3	18.5	23.1	23.1	26.2	27.7	23.1
85°	0.0	1.6	4.6	7.7	12.3	15.4	15.4	13.9	10.8	9.2	6.2
87.5°	0.0	0.0	1.6	3.1	1.6	3.1	3.1	3.1	3.1	3.1	3.1
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: P647874

CATALOG NUMBER: GALN-SA4A-835-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2969.6	2969.6	2969.6	2969.6	2969.6	2969.6	2969.6	2969.6	2969.6	2969.6	2969.6
2.5°	2983.5	2982.0	2944.9	2884.9	2871.0	2820.2	2814.0	2783.3	2800.2	2743.2	2737.1
5°	2958.8	2940.3	2895.7	2857.2	2744.7	2664.6	2601.5	2524.5	2479.8	2487.5	2458.2
7.5°	2994.3	2946.5	2868.0	2733.9	2596.9	2456.7	2381.3	2224.1	2167.1	2082.5	2070.1
10°	2957.3	2921.8	2800.2	2578.4	2388.9	2187.2	2010.0	1836.0	1703.5	1646.6	1634.2
12.5°	2954.2	2892.6	2689.3	2442.9	2168.7	1879.1	1621.9	1404.7	1273.8	1199.9	1183.0
15°	2906.5	2832.5	2564.6	2233.4	1854.5	1494.0	1213.7	1004.3	904.1	861.0	873.4
17.5°	2911.1	2800.2	2439.7	2011.6	1544.9	1096.7	828.6	720.8	694.7	705.4	705.4
20°	2906.5	2727.8	2288.8	1755.9	1183.0	760.9	608.4	569.9	586.9	620.8	613.0
22.5°	2881.8	2693.9	2150.2	1486.4	870.2	563.8	488.3	489.8	516.0	557.6	566.8
25°	2900.3	2618.4	1974.6	1213.7	634.6	449.8	423.6	434.3	462.0	492.9	499.0
27.5°	2886.5	2564.6	1791.3	942.7	463.6	386.6	385.1	397.4	409.7	432.8	432.8
30°	2901.9	2515.2	1611.1	700.8	381.9	354.2	348.1	357.4	369.7	374.3	372.7
32.5°	2958.8	2478.3	1403.1	523.7	337.3	323.5	323.5	323.5	321.9	328.1	329.6
35°	3083.6	2484.5	1219.9	405.1	308.0	297.3	292.7	286.5	283.4	286.5	288.1
37.5°	3219.1	2481.3	1030.4	345.0	286.5	277.3	266.5	257.2	255.6	258.8	254.2
40°	3279.2	2510.6	854.9	309.6	266.5	255.6	238.7	231.1	232.6	235.7	232.6
42.5°	3360.9	2519.9	740.9	281.9	248.0	231.1	220.3	211.0	209.5	214.1	212.6
45°	3359.3	2467.5	620.8	266.5	231.1	212.6	198.7	191.0	191.0	194.1	195.6
47.5°	3457.9	2459.8	532.9	252.6	218.7	200.2	183.3	177.1	175.6	175.6	172.5
50°	3687.4	2567.6	465.2	237.2	203.3	186.4	172.5	164.8	158.6	155.6	154.0
52.5°	4135.6	2903.4	412.8	218.7	186.4	172.5	160.2	154.0	146.3	138.6	137.1
54°	4570.0	3249.9	409.7	203.3	172.5	163.3	152.5	149.4	140.2	129.4	126.3
55°	4765.6	3451.7	420.5	191.0	163.3	157.1	147.8	144.8	135.5	123.2	121.7
57.5°	4927.3	3530.2	414.4	158.6	147.8	146.3	138.6	134.0	123.2	106.3	103.2
60°	3966.1	2669.2	297.3	140.2	135.5	132.5	126.3	123.2	109.4	90.9	89.3
62.5°	2506.0	1535.6	189.5	123.2	118.6	114.0	106.3	103.2	90.9	72.4	67.8
65°	1067.4	636.1	127.9	109.4	101.6	94.0	87.8	83.2	72.4	53.9	52.4
67.5°	277.3	226.4	106.3	95.5	84.7	73.9	69.3	61.6	49.3	37.0	35.4
70°	124.7	114.0	89.3	80.1	67.8	57.0	50.8	43.1	32.3	24.7	23.1
72.5°	73.9	72.4	67.8	60.1	50.8	43.1	37.0	29.3	21.5	13.9	13.9
75°	46.2	44.6	46.2	41.6	35.4	32.3	27.7	20.0	12.3	6.2	6.2
77.5°	27.7	27.7	27.7	26.2	24.7	24.7	20.0	12.3	6.2	1.6	1.6
80°	21.5	21.5	23.1	21.5	21.5	21.5	16.9	9.2	3.1	0.0	0.0
82.5°	21.5	23.1	26.2	24.7	21.5	18.5	15.4	9.2	3.1	0.0	0.0
85°	6.2	4.6	7.7	10.8	15.4	13.9	10.8	7.7	3.1	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6	1.6	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)