

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: P451446

Luminaire Tested: **GALN-SA2B-750-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451446
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-SA2B-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA 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: 11342 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

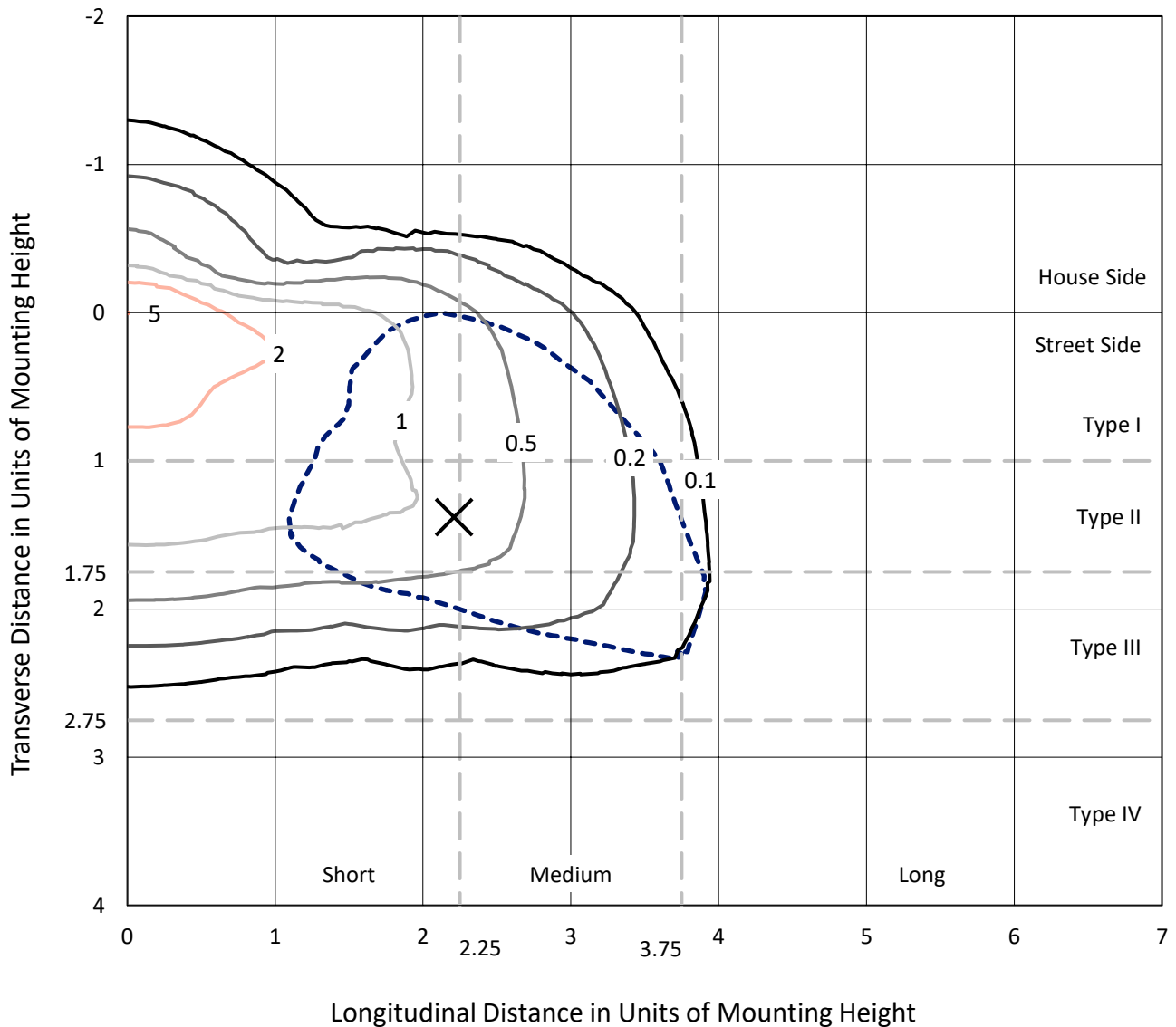
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

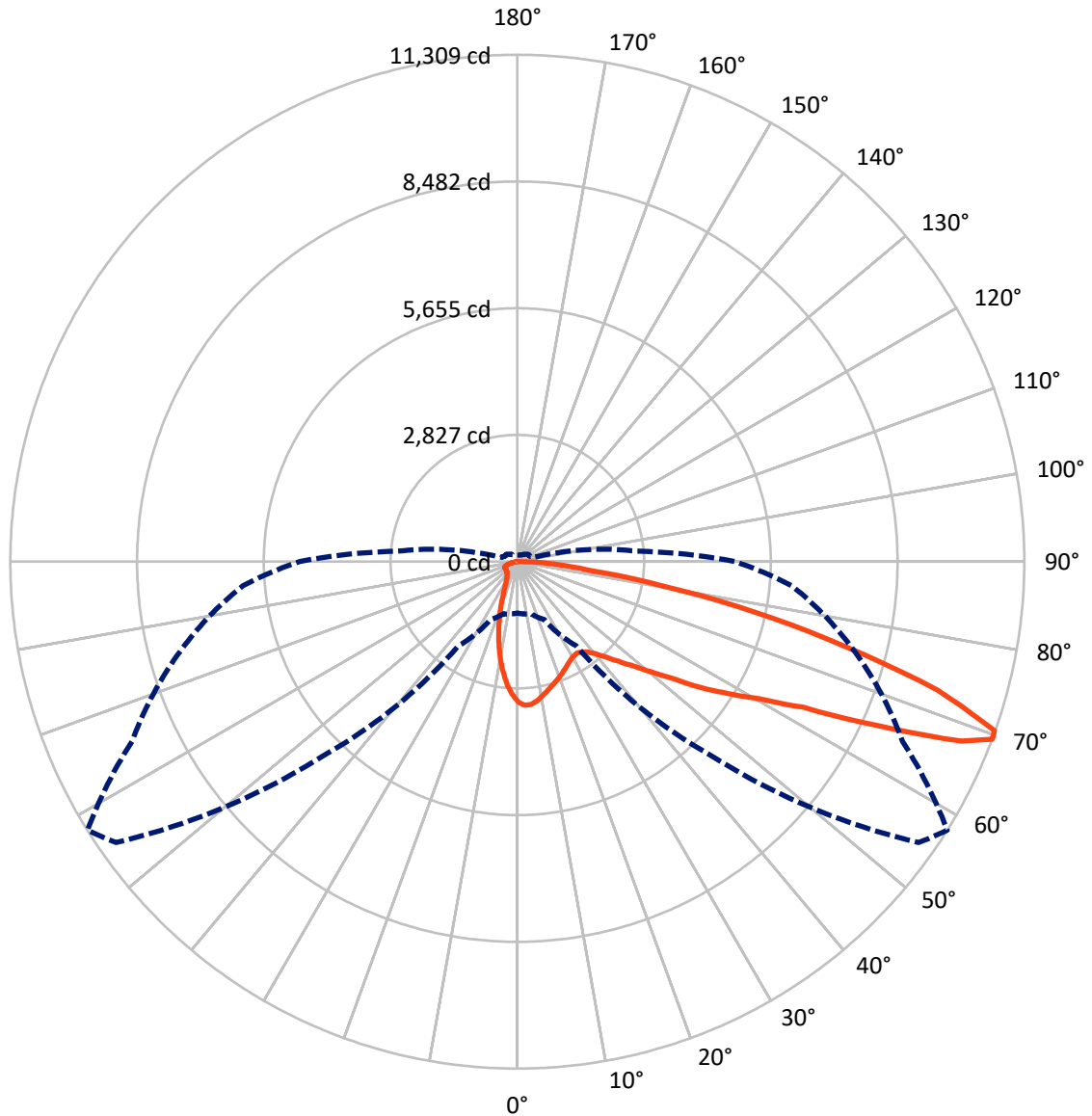
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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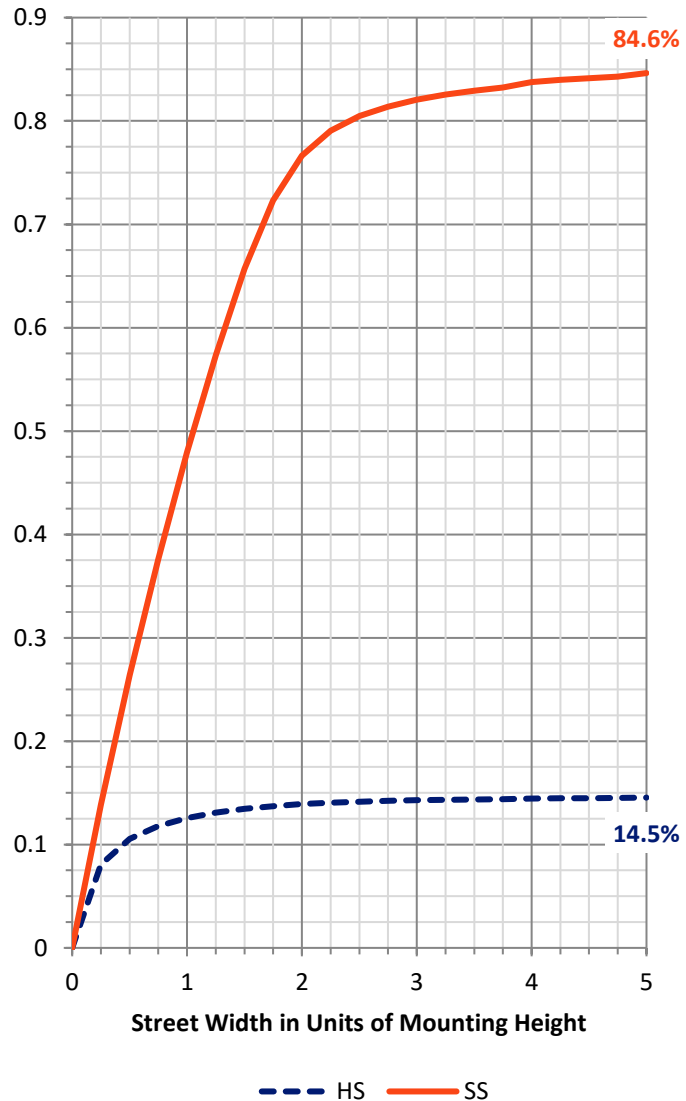
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1662.2	0.0	1662.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9679.8	0.0	9679.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	11342.0	0.0	11342.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.2	2.3
10°-20°	584.5	5.2
20°-30°	755.1	6.7
30°-40°	980.8	8.6
40°-50°	1425.9	12.6
50°-60°	2275.3	20.1
60°-70°	3039.5	26.8
70°-80°	1752.2	15.4
80°-90°	262.4	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°	11342.0	100.0
0°-180°	11342.0	100.0



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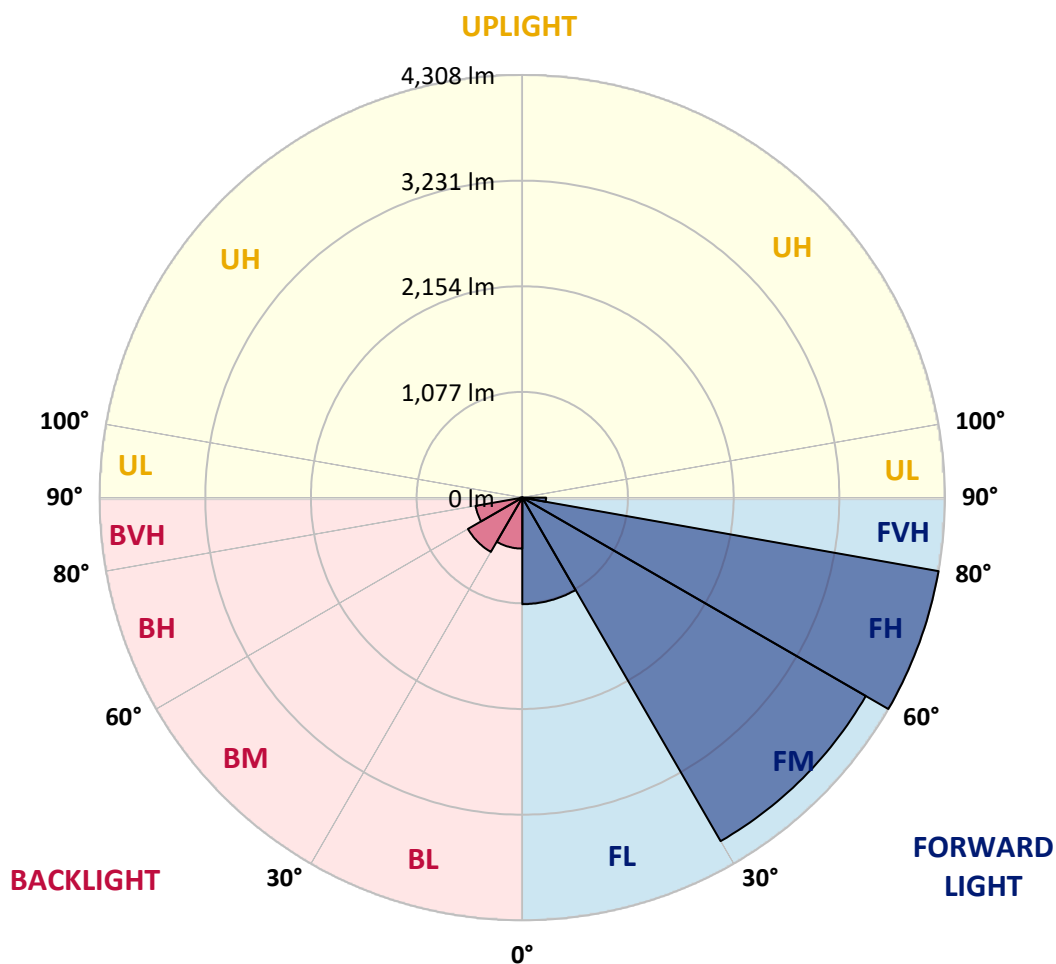
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.3	9.6			
FM (30°-60°)	4042.8	35.6			
FH (60°-80°)	4308.4	38.0			G2/5000
FVH (80°-90°)	242.3	2.1			G3/500
BL (0°-30°)	519.5	4.6	B2/1000		
BM (30°-60°)	639.2	5.6	B1/1000		
BH (60°-80°)	483.3	4.3	B1/500		G1/500
BVH (80°-90°)	20.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3
2.5°	3250.7	3259.5	3257.0	3253.8	3248.8	3234.8	3212.1	3208.3	3193.7	3162.7	3124.1
5°	3200.7	3208.3	3208.9	3213.3	3219.7	3217.1	3200.7	3198.8	3177.3	3135.5	3071.0
7.5°	3029.3	3039.4	3061.5	3086.2	3108.3	3129.2	3134.3	3137.4	3124.1	3076.1	2990.0
10°	2836.3	2846.5	2856.6	2893.3	2947.7	2999.5	3042.5	3048.2	3051.4	3007.1	2902.1
12.5°	2622.5	2643.4	2664.9	2719.3	2792.1	2873.7	2949.6	2961.6	2983.1	2949.6	2826.2
15°	2441.0	2462.5	2493.5	2542.2	2630.1	2747.8	2854.7	2874.3	2916.7	2899.6	2755.4
17.5°	2315.1	2322.7	2344.2	2399.9	2494.8	2618.7	2761.7	2800.9	2868.6	2864.2	2694.6
20°	2215.8	2225.3	2238.6	2272.7	2371.4	2502.4	2675.0	2725.6	2817.4	2832.5	2634.6
22.5°	2174.1	2181.0	2179.1	2197.5	2264.5	2396.1	2587.1	2647.2	2771.8	2811.0	2578.9
25°	2176.6	2182.9	2173.4	2169.0	2208.9	2302.5	2495.4	2571.9	2735.1	2796.5	2528.3
27.5°	2219.0	2223.4	2205.7	2188.0	2191.1	2244.3	2419.5	2504.2	2704.1	2802.8	2485.9
30°	2275.9	2284.1	2272.7	2251.2	2227.8	2230.4	2370.8	2454.3	2689.6	2824.9	2465.7
32.5°	2349.3	2356.9	2351.8	2334.7	2304.4	2270.8	2358.8	2435.9	2690.9	2869.9	2461.2
35°	2426.4	2441.6	2449.9	2448.6	2423.9	2365.7	2406.2	2470.1	2721.2	2945.1	2487.2
37.5°	2513.7	2526.4	2561.8	2584.6	2561.8	2494.1	2513.1	2557.4	2788.3	3053.9	2544.1
40°	2598.5	2617.5	2669.3	2740.2	2731.3	2671.9	2676.3	2705.4	2906.5	3215.9	2655.4
42.5°	2687.1	2709.8	2800.3	2905.3	2926.2	2880.0	2892.0	2917.9	3074.8	3440.4	2846.5
45°	2800.9	2828.1	2939.4	3070.4	3152.6	3124.1	3158.3	3171.0	3300.0	3732.7	3098.2
47.5°	2947.7	2979.3	3116.6	3279.8	3396.1	3422.1	3481.5	3473.9	3578.9	4078.7	3424.6
50°	3195.0	3212.7	3342.4	3508.7	3668.8	3785.8	3850.3	3862.3	3924.9	4415.2	3789.6
52.5°	3489.1	3504.9	3598.6	3744.0	3944.6	4192.5	4351.9	4312.7	4327.9	4825.1	4216.6
55°	3819.9	3846.5	3906.0	4002.8	4262.7	4627.7	4947.8	4957.3	4789.0	5217.2	4625.8
57.5°	4076.1	4121.0	4222.9	4360.8	4690.3	5111.6	5541.7	5548.1	5333.0	5636.0	5077.4
60°	3947.1	4000.2	4233.0	4568.9	5251.4	5956.1	6251.5	6215.4	5862.4	6112.9	5628.4
62.5°	3390.4	3399.9	3738.3	4263.4	5424.1	7085.8	7307.8	7155.4	6569.0	6717.6	6188.2
65°	2194.3	2256.3	2524.5	3260.1	4856.7	7712.6	9158.6	8806.3	7559.6	7403.9	6656.9
67.5°	1385.3	1369.5	1480.8	1861.6	3340.5	7160.4	10738.1	10682.4	8855.0	7837.2	6545.0
69°	1148.7	1166.4	1204.4	1427.0	2298.7	6113.6	10924.7	11309.3	9483.1	7803.1	6138.2
70°	1041.8	1050.0	1089.9	1265.1	1773.7	5120.5	10618.5	11292.2	9729.8	7660.1	5843.5
72.5°	826.7	826.1	894.4	1052.6	1325.8	2923.0	8719.0	9803.8	9454.0	6994.7	4828.2
75°	628.1	638.2	713.5	890.6	1221.4	1597.2	6084.5	7550.1	7550.7	5524.7	3012.8
77.5°	452.9	459.2	547.2	747.7	1150.6	1294.8	4052.7	5415.2	5090.7	2531.4	946.9
80°	296.7	300.5	367.5	592.1	1037.4	1221.4	2403.0	3314.5	2401.1	671.8	313.1
82.5°	162.6	181.5	224.6	383.3	832.4	1128.5	1460.5	1677.5	900.7	299.2	163.2
85°	81.6	86.7	126.5	223.9	544.0	933.6	1017.1	962.1	464.9	148.6	84.8
87.5°	24.0	30.4	52.5	86.7	220.8	486.4	566.1	507.9	179.0	53.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3	3134.3
2.5°	3108.3	3096.9	3046.3	3000.8	2959.0	2914.8	2877.5	2844.6	2847.7	2848.4	2814.8
5°	3037.5	3011.6	2915.4	2825.6	2749.7	2653.5	2571.3	2518.2	2491.6	2456.2	2468.8
7.5°	2941.3	2891.4	2757.9	2608.6	2468.8	2344.2	2208.9	2115.9	2056.4	1998.8	2006.4
10°	2842.0	2761.7	2567.5	2370.1	2189.2	1990.0	1817.3	1669.3	1559.2	1518.1	1490.9
12.5°	2740.2	2634.6	2387.9	2125.4	1875.5	1637.0	1392.2	1233.5	1112.0	1047.5	1055.7
15°	2647.2	2518.8	2200.6	1880.6	1556.1	1272.0	1027.9	876.7	791.9	774.2	784.4
17.5°	2561.2	2392.9	2025.4	1642.7	1263.8	953.9	772.3	686.9	652.8	643.3	642.7
20°	2472.6	2286.0	1828.7	1388.4	984.9	739.4	633.8	594.0	587.6	591.4	592.1
22.5°	2382.8	2153.8	1626.3	1136.1	784.4	604.7	554.1	543.4	548.4	557.3	558.5
25°	2299.9	2037.4	1431.5	914.7	626.2	531.3	506.7	506.7	518.1	531.3	532.0
27.5°	2231.6	1924.8	1237.3	726.2	524.4	478.2	470.0	474.4	490.2	500.3	501.0
30°	2175.3	1819.8	1053.8	581.9	461.1	435.8	433.9	441.5	452.9	462.4	463.0
32.5°	2132.9	1727.5	882.4	489.0	417.5	403.6	402.9	408.6	415.0	417.5	420.0
35°	2116.5	1650.9	725.5	430.1	388.4	379.5	379.5	378.9	381.4	382.7	384.0
37.5°	2129.8	1592.1	604.1	392.2	366.9	360.6	356.8	353.0	351.7	351.7	352.3
40°	2186.1	1561.1	513.6	367.5	351.7	342.2	335.2	330.8	326.4	327.7	328.9
42.5°	2305.6	1566.8	452.3	351.1	338.4	325.1	315.0	309.9	306.8	310.6	309.9
45°	2496.0	1623.7	413.1	339.7	325.1	308.0	298.6	293.5	293.5	299.2	301.1
47.5°	2762.3	1732.5	392.2	330.8	315.0	294.8	285.3	281.5	282.7	292.2	292.9
50°	3087.5	1921.7	388.4	326.4	309.9	285.3	274.5	270.7	273.9	284.0	285.3
52.5°	3446.1	2165.2	406.7	327.0	305.5	279.6	265.7	260.0	263.1	271.4	273.9
55°	3871.2	2470.1	454.2	329.6	299.2	276.4	259.3	246.7	250.5	256.2	256.8
57.5°	4305.1	2854.7	537.7	330.2	294.1	270.7	248.6	232.1	232.1	235.9	237.8
60°	4835.2	3273.4	647.7	330.8	294.8	262.5	234.0	215.7	213.2	215.1	215.7
62.5°	5361.5	3623.9	666.1	328.9	301.1	254.3	218.2	199.3	194.8	194.2	192.9
65°	5593.6	3558.7	545.9	320.1	308.0	249.2	205.6	183.4	175.8	173.3	173.3
67.5°	5215.3	3010.3	410.5	308.0	303.6	244.2	193.6	170.2	161.3	156.2	156.2
69°	4859.8	2677.6	368.8	299.8	292.2	235.9	186.0	163.2	152.4	146.8	144.9
70°	4585.3	2448.6	351.1	292.9	281.5	226.5	180.3	158.1	146.1	139.8	138.5
72.5°	3659.3	1921.0	307.4	266.3	239.7	190.4	160.0	142.3	130.9	124.0	122.1
75°	2108.9	1041.2	254.9	231.5	192.9	148.0	135.4	124.0	115.1	108.8	106.9
77.5°	649.0	402.3	184.7	182.8	141.7	114.5	108.2	103.7	97.4	90.5	89.2
80°	273.3	204.9	125.2	123.3	94.2	79.7	77.8	77.2	74.6	68.9	67.0
82.5°	149.9	115.8	87.3	75.9	56.9	46.2	48.1	48.7	46.8	41.1	37.3
85°	73.4	63.3	42.4	34.2	25.9	16.4	15.8	19.0	17.7	12.7	13.9
87.5°	14.5	17.7	11.4	5.1	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)