

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: P651783

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6714.5 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

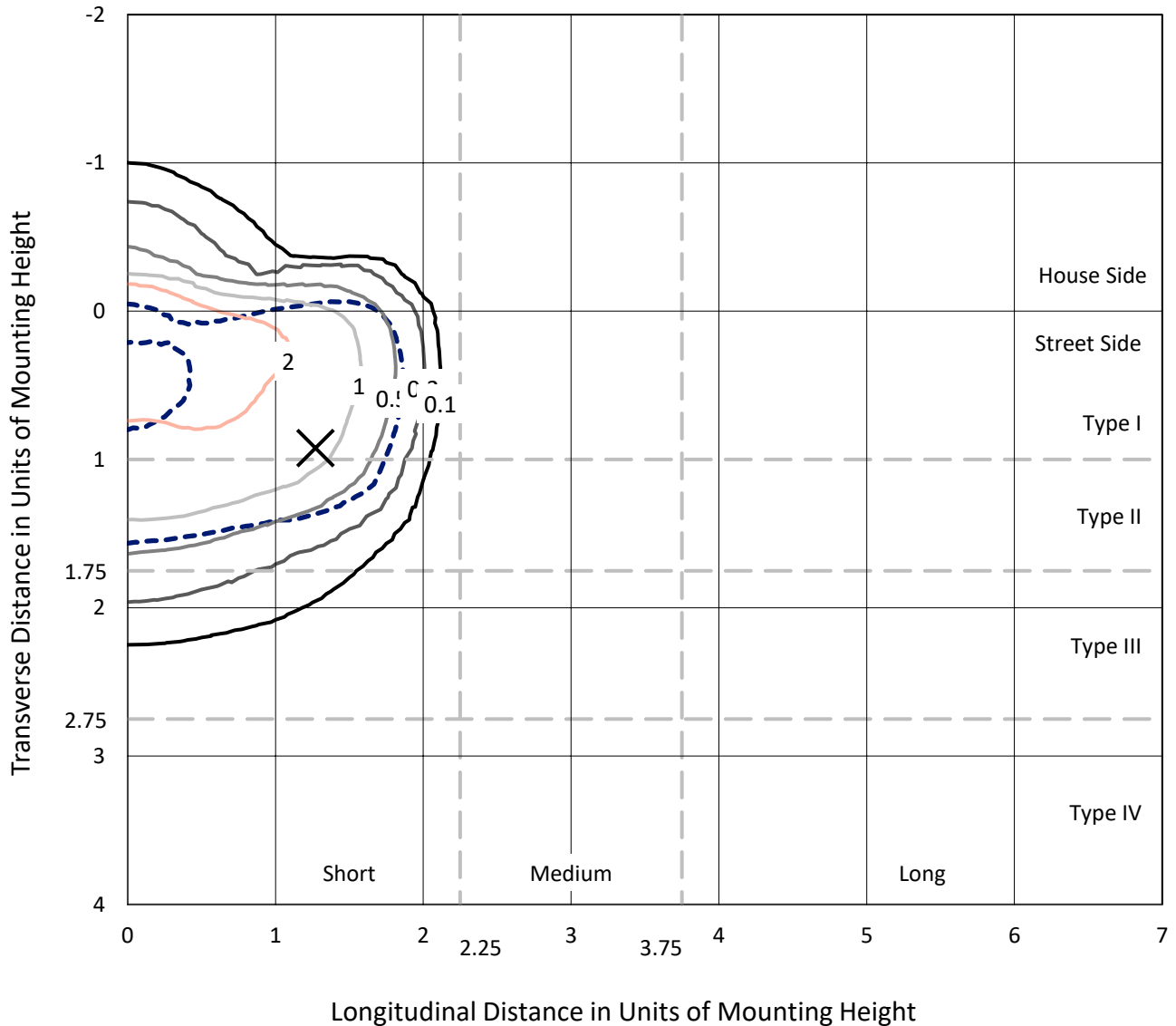
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

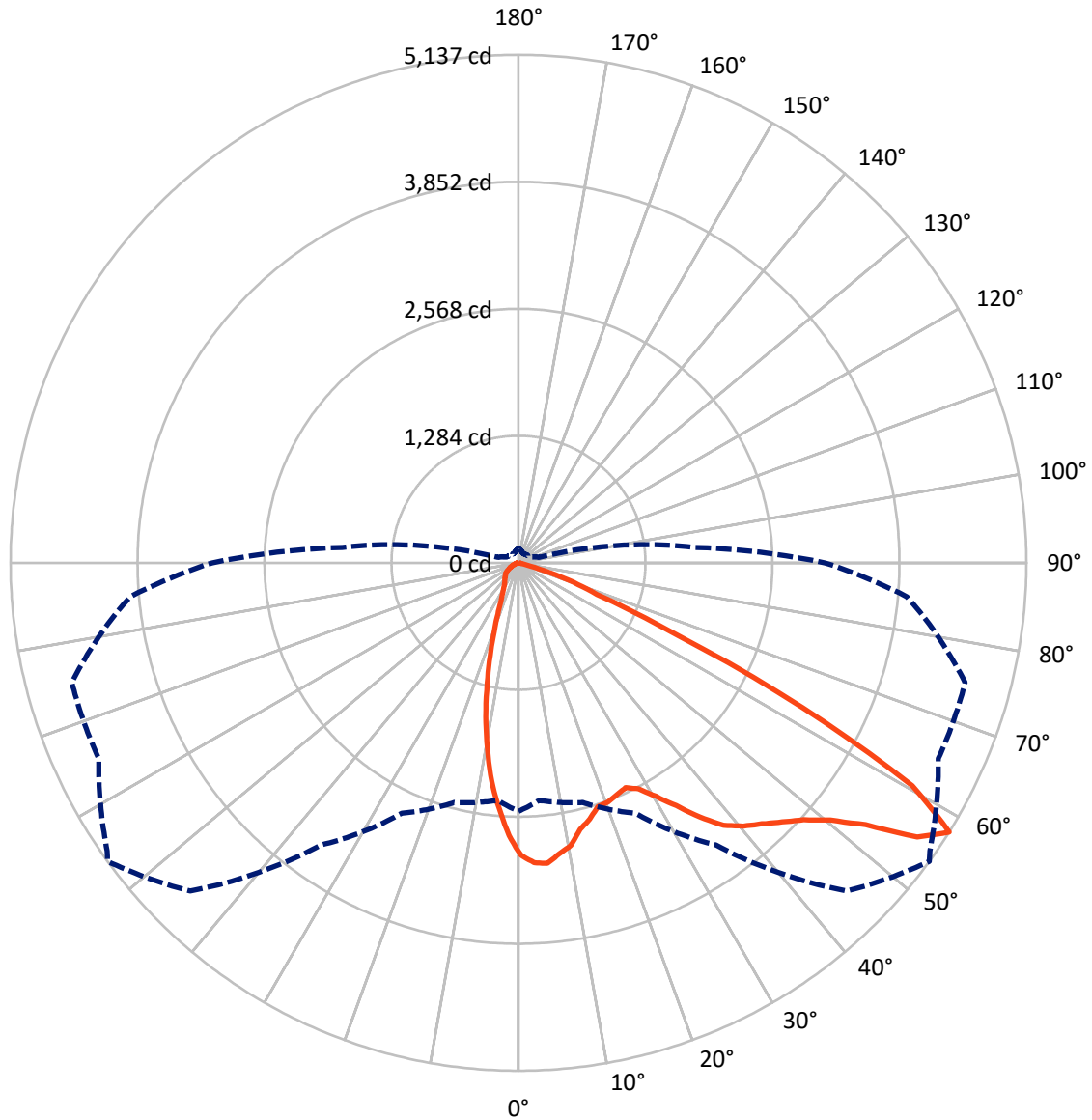
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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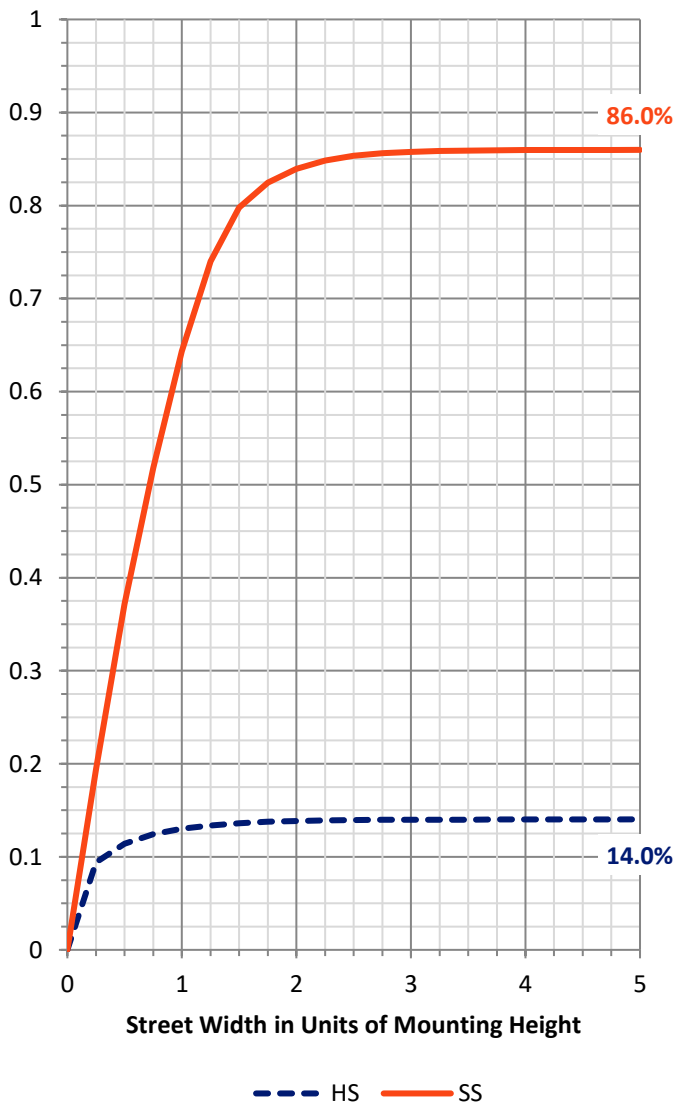
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	948.9	0.0	948.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	5765.7	0.0	5765.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	6714.5	0.0	6714.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.5	3.7
10°-20°	528.4	7.9
20°-30°	700.3	10.4
30°-40°	1017.7	15.2
40°-50°	1509.2	22.5
50°-60°	1887.1	28.1
60°-70°	744.4	11.1
70°-80°	74.1	1.1
80°-90°	5.8	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°	6714.5	100.0
0°-180°	6714.5	100.0

Coefficient of Utilization

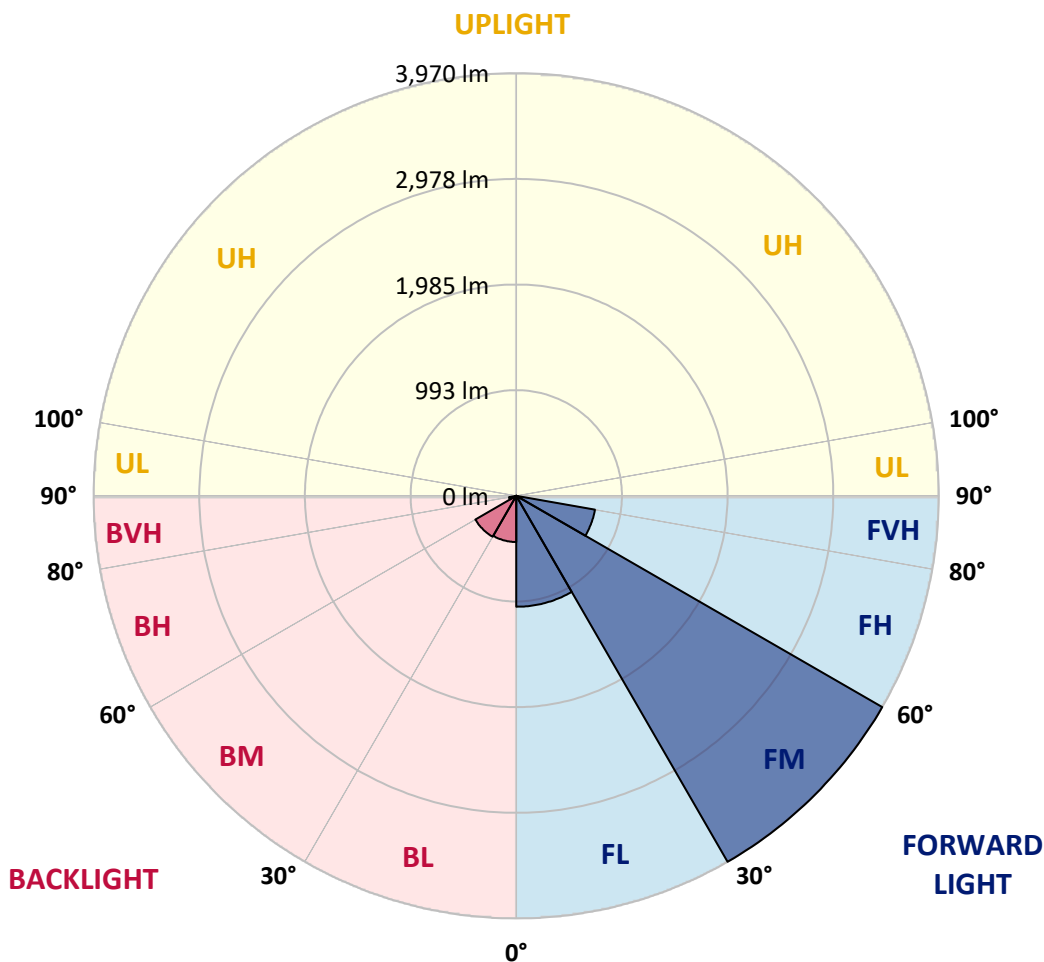


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.3	15.5			
FM (30°-60°)	3970.3	59.1			
FH (60°-80°)	750.5	11.2			G1/1800
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	434.0	6.5	B1/500		
BM (30°-60°)	443.7	6.6	B1/1000		
BH (60°-80°)	68.0	1.0	B0/110		G0/110
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9
2.5°	3130.1	3097.7	3100.2	3088.9	3073.9	3085.2	3036.5	3047.8	3046.5	2980.3	2936.6
5°	3051.5	3086.5	3050.2	3080.2	3051.5	3082.7	3052.7	3030.3	2994.0	2945.4	2864.2
7.5°	2917.9	2884.2	2894.1	2931.6	2937.9	3007.8	2970.3	2999.1	2984.0	2887.9	2776.8
10°	2649.5	2642.0	2691.9	2741.8	2803.1	2877.9	2906.7	2890.4	2879.2	2843.0	2694.4
12.5°	2443.4	2464.6	2463.5	2545.8	2649.5	2691.9	2766.8	2764.3	2826.8	2759.3	2617.0
15°	2247.4	2258.7	2311.1	2362.3	2477.2	2598.3	2690.7	2703.1	2778.1	2730.6	2557.1
17.5°	2127.6	2111.3	2152.5	2213.7	2331.1	2489.6	2592.0	2622.0	2724.3	2714.4	2488.4
20°	2008.9	2008.9	2042.6	2115.0	2222.4	2401.0	2583.3	2574.6	2724.3	2695.7	2414.8
22.5°	1968.9	1989.0	1997.7	2052.6	2180.0	2333.6	2545.8	2562.0	2745.6	2686.9	2382.3
25°	2024.0	1997.7	2000.2	2043.9	2163.7	2301.1	2518.4	2554.5	2784.3	2730.6	2356.1
27.5°	2032.7	2058.9	2066.3	2096.4	2176.3	2311.1	2587.0	2660.7	2880.4	2833.0	2363.5
30°	2108.8	2135.0	2133.8	2185.0	2239.9	2392.2	2740.6	2755.6	3079.0	2961.6	2409.7
32.5°	2201.2	2228.6	2237.4	2297.4	2341.1	2540.8	2927.9	2966.6	3270.0	3163.8	2530.8
35°	2316.1	2306.1	2346.1	2406.0	2499.6	2758.1	3156.4	3221.3	3476.0	3426.1	2655.7
37.5°	2459.7	2447.2	2485.9	2583.3	2710.6	3015.3	3367.4	3409.8	3625.8	3669.5	2886.6
40°	2560.8	2565.8	2683.1	2814.2	2949.1	3260.0	3501.0	3542.2	3730.7	3896.8	3061.5
42.5°	2729.4	2760.6	2901.7	3061.5	3202.5	3443.6	3609.6	3649.5	3779.4	4079.0	3297.5
45°	2974.1	2960.3	3116.4	3295.0	3451.0	3634.5	3738.2	3724.5	3808.1	4260.1	3446.0
47.5°	3288.7	3291.3	3394.9	3547.2	3709.5	3800.6	3881.8	3833.1	3868.0	4451.2	3644.6
50°	3503.4	3522.2	3605.9	3762.0	3843.1	3982.9	4086.6	4056.6	4045.4	4566.0	3769.4
52.5°	3558.4	3614.6	3659.5	3854.3	4044.1	4265.1	4397.4	4461.1	4261.3	4604.7	3928.0
55°	3143.9	3193.9	3352.4	3619.6	4120.2	4712.0	4894.4	4895.6	4543.5	4777.0	4039.1
57.5°	2513.3	2412.2	2509.6	2793.0	3483.5	4693.4	5136.6	5077.9	4684.6	4675.9	3942.9
60°	1738.0	1713.0	1719.3	1831.6	2411.0	3733.2	4577.2	4653.4	4313.8	4052.9	3121.4
62.5°	1377.1	1355.9	1328.4	1316.0	1497.1	2326.0	3228.8	3336.2	3016.5	2628.2	1850.4
65°	1078.8	1066.3	1070.0	1120.0	1118.7	1319.7	1765.4	1721.8	1378.4	1018.8	581.8
67.5°	727.9	746.6	761.6	912.7	990.1	919.0	852.8	827.8	448.3	188.6	128.6
70°	409.6	412.0	428.2	570.6	751.6	712.9	588.1	588.1	223.5	68.7	73.7
72.5°	223.5	216.0	201.0	246.0	334.6	339.6	262.2	228.5	66.2	44.9	41.2
75°	108.7	107.4	92.4	76.2	72.4	60.0	46.2	42.5	29.9	28.7	25.0
77.5°	22.5	21.2	11.3	11.3	12.4	13.7	17.5	17.5	21.2	21.2	17.5
80°	0.0	0.0	1.3	5.0	8.7	12.4	15.0	15.0	17.5	17.5	13.7
82.5°	0.0	0.0	1.3	3.8	7.5	11.3	13.7	15.0	17.5	18.8	15.0
85°	0.0	0.0	0.0	2.5	6.2	8.7	7.5	7.5	6.2	5.0	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9
2.5°	2914.1	2911.6	2854.2	2821.7	2763.1	2711.9	2670.7	2640.7	2640.7	2622.0	2604.5
5°	2831.7	2810.5	2688.2	2609.5	2498.4	2415.9	2359.8	2316.1	2247.4	2266.2	2192.5
7.5°	2729.4	2675.6	2513.3	2393.5	2239.9	2122.6	2002.7	1896.5	1794.2	1748.0	1773.0
10°	2619.5	2525.9	2307.4	2117.6	1926.6	1711.8	1571.9	1402.1	1297.2	1291.0	1263.5
12.5°	2503.4	2397.3	2131.3	1869.1	1618.2	1359.6	1146.2	987.6	916.4	837.8	852.8
15°	2415.9	2258.7	1935.3	1619.3	1286.1	1025.1	810.3	687.9	620.6	601.8	595.6
17.5°	2321.1	2152.5	1735.5	1353.4	1008.9	737.9	583.1	524.4	498.2	498.2	494.4
20°	2222.4	2032.7	1537.0	1106.3	756.6	550.6	466.9	448.3	447.0	445.7	445.7
22.5°	2157.5	1895.3	1357.2	879.0	570.6	440.8	405.8	398.3	403.3	418.2	418.2
25°	2088.9	1763.0	1158.6	677.9	442.0	378.3	358.4	363.3	375.8	389.6	384.6
27.5°	2018.9	1676.8	971.4	531.8	362.1	330.8	323.4	334.6	348.3	360.9	357.1
30°	2002.7	1584.4	794.1	403.3	310.9	288.4	293.4	303.4	317.1	322.1	327.1
32.5°	2027.7	1512.0	650.5	330.8	271.0	264.7	264.7	269.7	278.5	289.6	285.9
35°	2098.8	1470.8	514.4	287.2	248.4	242.2	240.9	246.0	251.0	254.7	251.0
37.5°	2207.5	1438.4	420.8	254.7	233.5	223.5	221.0	219.8	224.7	226.0	228.5
40°	2346.1	1455.9	357.1	234.7	218.5	207.2	199.7	199.7	199.7	203.5	204.8
42.5°	2495.9	1479.6	308.4	223.5	204.8	191.0	183.5	181.1	183.5	188.6	187.3
45°	2653.2	1525.7	277.2	206.0	192.3	174.8	164.8	162.3	168.5	178.5	177.3
47.5°	2800.5	1591.9	253.5	194.8	179.8	163.6	151.0	148.6	159.8	173.6	174.8
50°	2947.9	1706.8	244.7	186.0	171.1	152.3	141.1	138.6	151.0	168.5	172.3
52.5°	3117.7	1830.4	238.5	174.8	161.1	143.6	131.1	128.6	142.3	164.8	166.1
55°	3228.8	1935.3	233.5	154.8	142.3	129.9	119.8	118.6	133.6	153.6	158.5
57.5°	3098.9	1789.2	216.0	134.8	121.1	114.9	106.1	106.1	118.6	137.3	141.1
60°	2349.8	1177.4	153.6	108.7	102.3	98.6	94.9	94.9	104.9	118.6	119.8
62.5°	1375.9	634.3	98.6	87.4	87.4	83.7	77.4	77.4	87.4	94.9	96.1
65°	408.3	203.5	79.9	74.9	73.7	67.4	61.1	60.0	67.4	71.1	69.9
67.5°	117.4	93.6	66.2	62.4	61.1	51.2	47.4	46.2	47.4	44.9	43.7
70°	69.9	63.7	51.2	52.5	46.2	37.4	33.7	32.5	29.9	26.2	23.7
72.5°	38.7	38.7	37.4	39.9	32.5	25.0	21.2	17.5	13.7	11.3	10.0
75°	23.7	25.0	26.2	27.5	21.2	16.2	13.7	8.7	5.0	2.5	2.5
77.5°	16.2	17.5	18.8	20.0	17.5	15.0	11.3	6.2	1.3	0.0	0.0
80°	12.4	13.7	16.2	17.5	18.8	20.0	15.0	6.2	1.3	0.0	0.0
82.5°	13.7	15.0	18.8	17.5	17.5	17.5	13.7	6.2	1.3	0.0	0.0
85°	2.5	3.8	6.2	6.2	8.7	11.3	8.7	2.5	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)