

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: P191434

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-T3-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23999.4 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

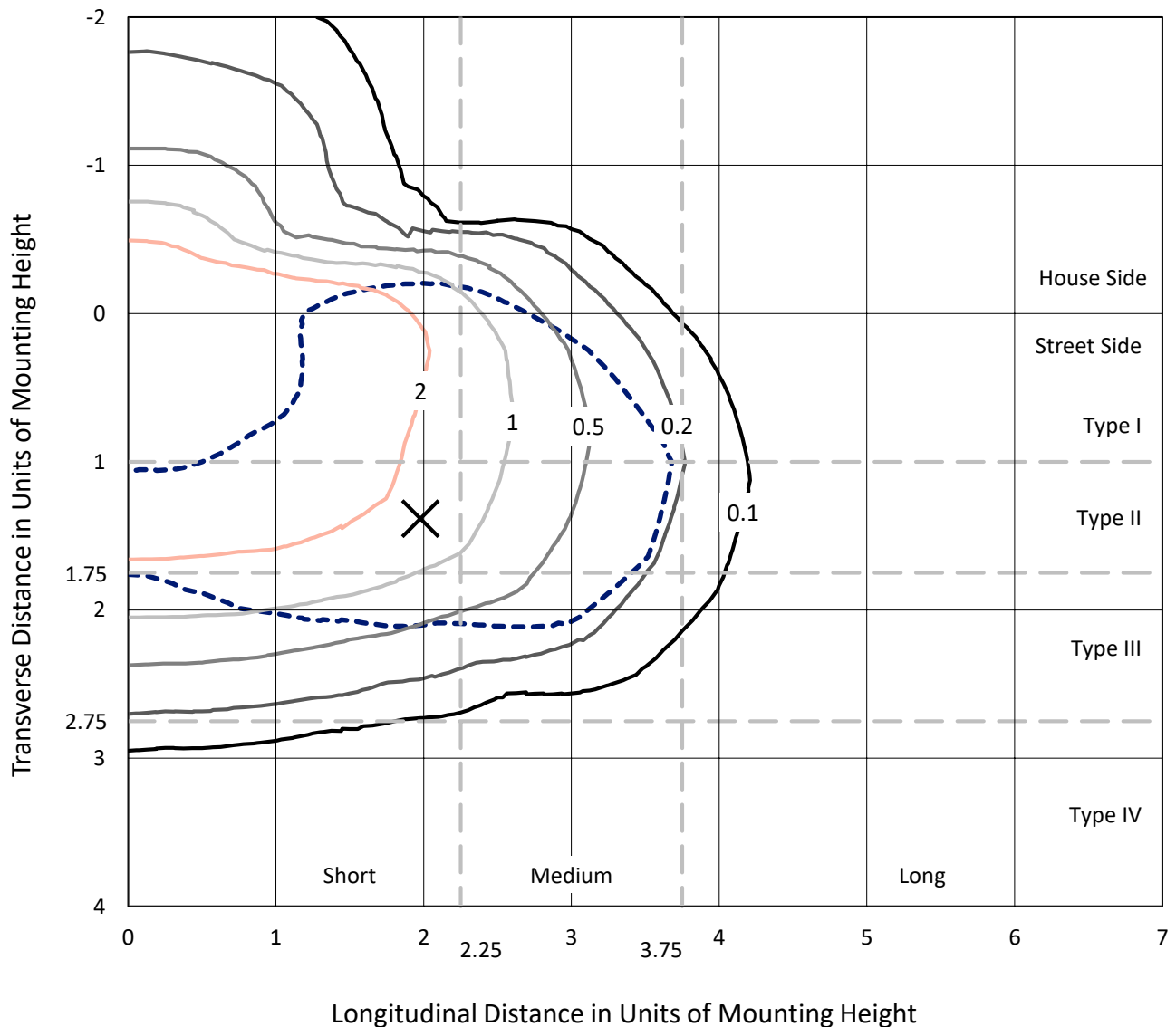
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

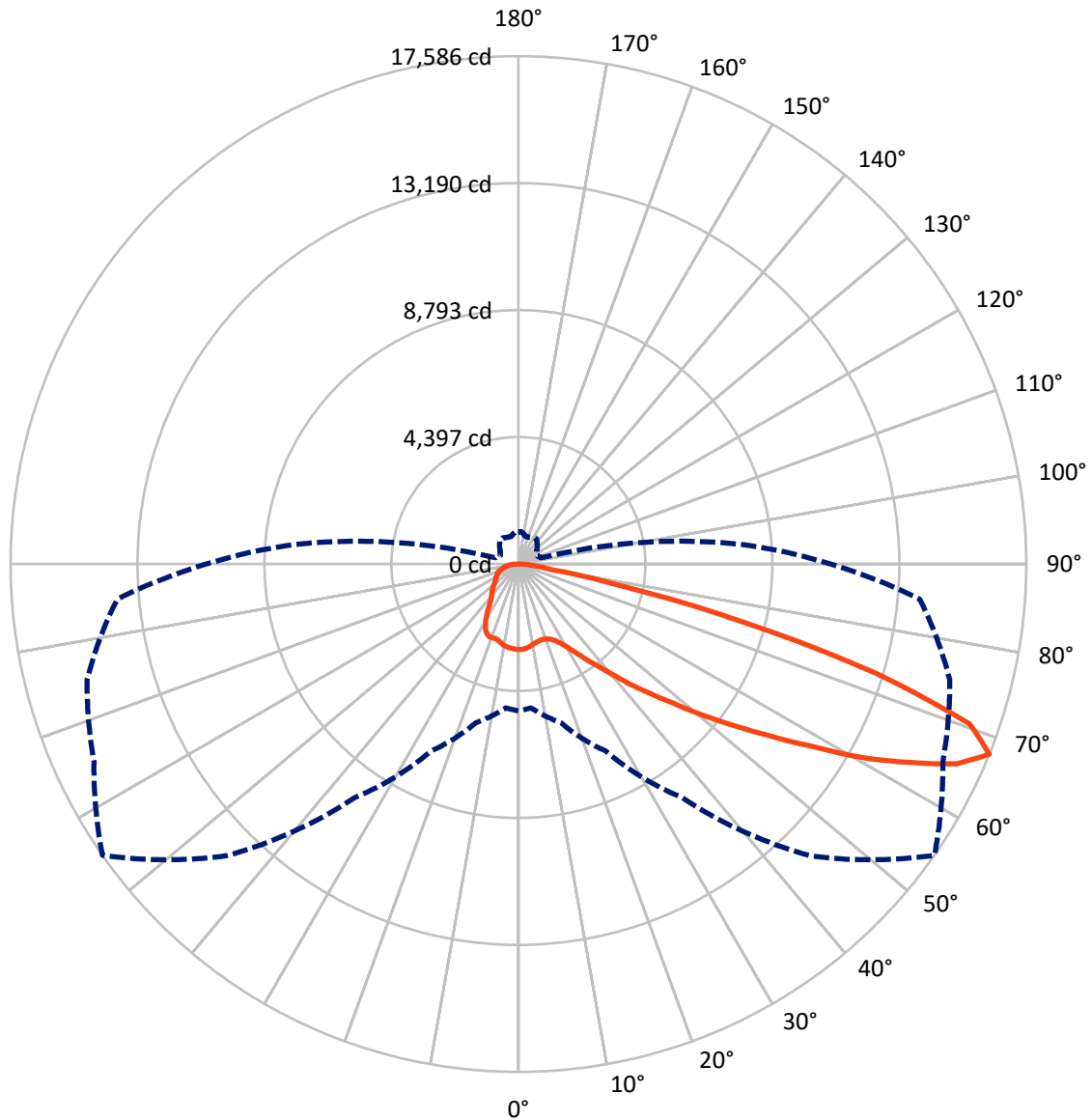
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5184.4	0.0	5184.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	18815.1	0.0	18815.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	23999.4	0.0	23999.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.2	1.2
10°-20°	782.3	3.3
20°-30°	1310.5	5.5
30°-40°	2155.0	9.0
40°-50°	3627.5	15.1
50°-60°	5709.5	23.8
60°-70°	6813.6	28.4
70°-80°	2925.9	12.2
80°-90°	398.9	1.7
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°	23999.4	100.0
0°-180°	23999.4	100.0



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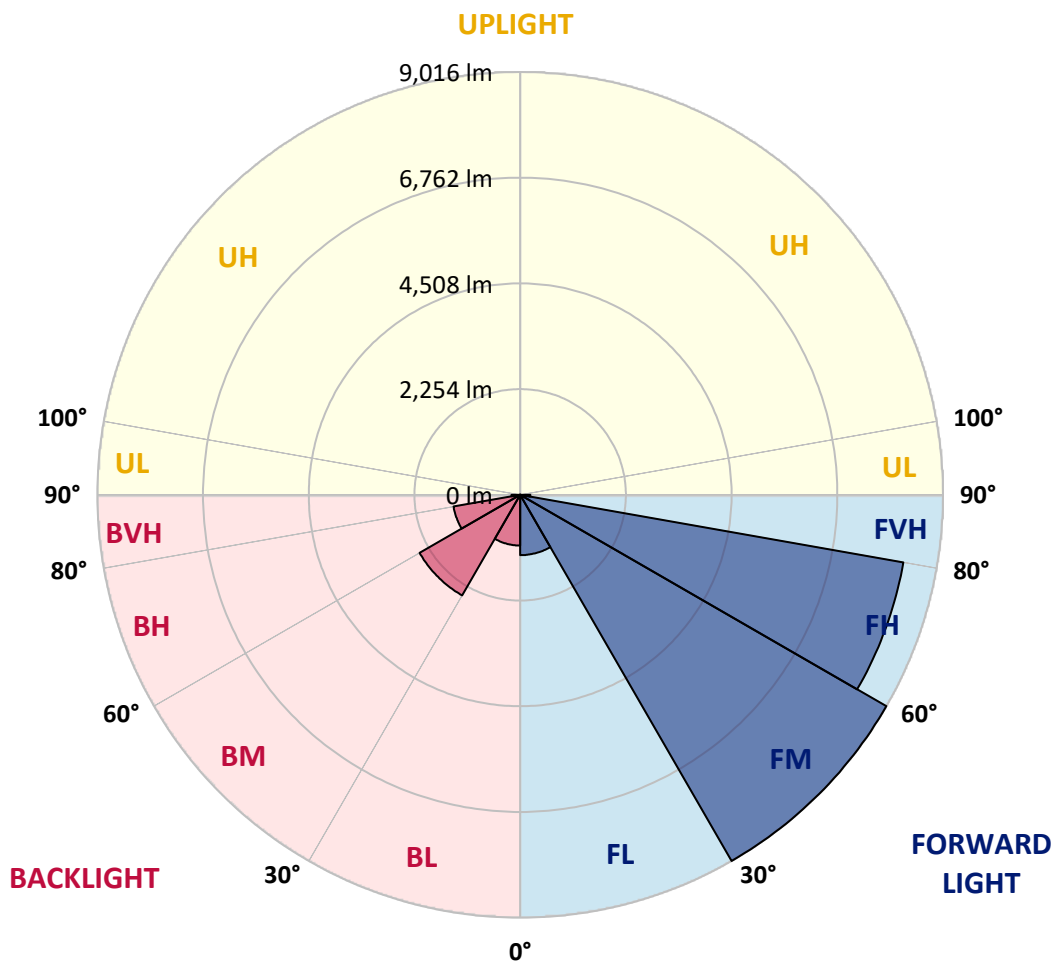
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1286.4	5.4			
FM	(30°-60°)	9016.0	37.6			
FH	(60°-80°)	8296.7	34.6			G4/12000
FVH	(80°-90°)	215.9	0.9			G2/225
BL	(0°-30°)	1082.6	4.5	B3/2500		
BM	(30°-60°)	2476.0	10.3	B2/2500		
BH	(60°-80°)	1442.8	6.0	B3/2500		G3/2500
BVH	(80°-90°)	183.0	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2959.4	2959.4	2959.4	2959.4	2959.4	2959.4	2959.4	2959.4	2959.4	2959.4	2959.4
2.5°	2933.9	2935.1	2937.4	2946.6	2954.8	2952.4	2953.6	2949.0	2947.8	2940.9	2947.8
5°	2896.8	2900.3	2901.4	2916.5	2925.7	2928.1	2924.6	2918.8	2911.8	2904.9	2908.4
7.5°	2812.2	2821.4	2822.6	2843.5	2858.5	2878.3	2879.4	2880.5	2877.0	2872.4	2879.4
10°	2758.9	2761.1	2760.0	2775.1	2786.7	2808.7	2821.4	2843.5	2852.7	2855.1	2859.7
12.5°	2755.4	2753.1	2749.6	2749.6	2746.1	2755.4	2778.5	2809.8	2831.8	2838.8	2844.6
15°	2792.5	2791.3	2779.8	2762.4	2740.3	2733.3	2753.1	2787.8	2816.8	2831.8	2837.7
17.5°	2875.9	2869.0	2850.5	2811.1	2763.5	2745.0	2747.2	2776.3	2809.8	2829.6	2835.3
20°	3029.0	3029.0	2989.6	2915.3	2830.7	2786.7	2765.9	2783.2	2815.7	2842.3	2850.5
22.5°	3293.3	3295.5	3229.5	3107.7	2965.2	2871.3	2819.2	2815.7	2853.9	2884.0	2893.3
25°	3667.7	3658.4	3565.6	3391.8	3175.0	3019.6	2929.2	2908.4	2940.9	2974.4	2986.1
27.5°	4103.5	4069.9	3959.7	3749.9	3469.4	3242.2	3103.1	3069.5	3100.8	3139.0	3150.7
30°	4534.7	4500.0	4368.9	4139.5	3827.6	3540.1	3340.8	3286.3	3330.3	3384.8	3391.8
32.5°	4965.9	4965.9	4819.8	4552.1	4212.5	3896.0	3657.3	3592.3	3665.3	3731.4	3746.5
35°	5481.8	5484.1	5342.7	5020.4	4655.2	4320.2	4057.1	4009.7	4119.7	4166.1	4202.1
37.5°	6115.8	6128.6	5946.6	5557.1	5157.2	4804.8	4491.9	4426.9	4537.0	4663.4	4779.3
40°	6800.9	6817.1	6616.7	6136.7	5736.8	5368.1	5029.6	4912.6	5095.7	5336.8	5486.4
42.5°	7454.8	7538.1	7344.6	6850.8	6420.8	6039.3	5696.2	5525.8	5755.3	6119.3	6249.2
45°	8399.4	8459.7	8122.4	7675.0	7270.4	6843.8	6389.5	6209.7	6530.8	6989.8	7016.5
47.5°	9028.9	8983.7	8812.1	8533.9	8277.7	7879.0	7195.0	6998.0	7424.6	7964.8	7815.2
50°	9363.9	9377.8	9354.6	9370.8	9380.2	9129.7	8182.7	7912.6	8421.4	9074.1	8729.8
52.5°	9676.9	9584.1	9660.6	10040.9	10499.9	10407.2	9257.2	8975.6	9490.2	10305.1	9696.6
55°	9670.0	9528.5	9777.7	10448.8	11444.6	11551.3	10464.0	10139.4	10620.5	11625.4	10721.2
57.5°	9328.0	9334.9	9718.5	10597.3	12103.0	12627.0	11864.3	11377.4	11819.1	12963.1	11656.7
60°	8857.3	8921.1	9474.0	10572.9	12630.5	13509.1	13582.1	12711.6	12993.3	14179.1	12431.1
62.5°	8098.1	8165.3	8928.0	10320.2	12550.5	14358.8	15135.5	14225.5	14220.9	14916.4	12658.3
65°	6900.6	6880.9	7682.0	9375.4	11879.3	14987.0	16678.3	15534.2	15145.9	14927.9	12201.6
67.5°	5088.8	5000.7	5688.1	7140.6	9873.9	14283.5	17586.0	16215.8	15461.2	13946.1	10805.9
70°	2640.6	2552.6	3109.0	4169.5	6493.8	11147.9	16580.9	15863.4	14764.6	11690.4	8465.5
72.5°	1129.0	1114.0	1340.1	1829.2	3141.4	6430.0	13001.4	13730.6	12668.7	8710.1	5820.3
75°	759.2	754.6	839.2	996.9	1413.0	2609.3	8136.3	9746.4	9268.9	5400.7	3273.5
77.5°	595.9	590.0	639.9	716.4	915.7	1029.4	3610.8	5232.6	4843.1	2350.8	1432.7
80°	466.0	461.4	492.7	534.4	658.4	649.2	1188.2	2081.9	1611.2	900.7	696.6
82.5°	367.4	367.4	392.9	394.1	467.2	442.8	620.1	916.9	804.4	525.1	426.6
85°	336.1	336.1	362.8	294.4	304.8	279.4	384.8	543.7	510.0	215.6	185.5
87.5°	169.2	164.6	304.8	260.9	165.7	148.3	187.8	263.1	282.8	119.4	92.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2959.4	2959.4	2959.4	2959.4	2959.4	2959.4	2959.4	2959.4	2959.4	2959.4
2.5°	2945.5	2944.4	2946.6	2947.8	2957.0	2969.8	2975.7	2983.7	2988.3	2986.1
5°	2910.7	2913.1	2922.3	2929.2	2945.5	2966.4	2977.9	2987.2	2995.3	2991.8
7.5°	2881.8	2887.5	2901.4	2907.2	2916.5	2922.3	2921.1	2924.6	2931.6	2923.5
10°	2865.5	2872.4	2882.9	2874.8	2852.7	2821.4	2792.5	2777.4	2782.0	2776.3
12.5°	2849.2	2858.5	2850.5	2812.2	2750.7	2710.2	2688.1	2690.5	2700.9	2703.2
15°	2840.0	2843.5	2808.7	2736.8	2674.2	2668.5	2680.0	2677.7	2678.9	2678.9
17.5°	2840.0	2830.7	2765.9	2693.9	2667.2	2656.8	2620.9	2575.7	2556.0	2549.1
20°	2855.1	2830.7	2751.9	2704.4	2646.4	2557.2	2462.1	2378.7	2341.5	2331.1
22.5°	2900.3	2858.5	2791.3	2709.0	2544.4	2394.8	2244.1	2144.5	2077.3	2065.6
25°	2991.8	2945.5	2869.0	2647.6	2382.1	2168.9	1997.3	1886.0	1818.8	1809.5
27.5°	3151.8	3121.6	2910.7	2512.0	2166.5	1938.2	1779.3	1693.6	1643.7	1640.2
30°	3392.9	3377.9	2889.8	2311.5	1901.1	1714.5	1637.9	1588.1	1551.0	1549.9
32.5°	3777.8	3656.0	2821.4	2066.9	1658.8	1555.6	1524.3	1494.2	1465.2	1465.2
35°	4272.8	3881.0	2691.6	1804.9	1511.6	1467.5	1428.1	1380.6	1342.3	1340.1
37.5°	4854.6	4020.1	2458.7	1593.9	1442.1	1408.4	1350.4	1279.7	1212.5	1200.9
40°	5442.4	4061.7	2130.6	1464.0	1398.0	1349.3	1278.6	1195.1	1130.2	1126.7
42.5°	5981.4	3981.8	1782.8	1374.7	1353.9	1289.0	1214.9	1140.6	1089.6	1088.5
45°	6433.4	3774.3	1490.7	1290.1	1307.5	1234.5	1168.4	1108.2	1068.8	1060.7
47.5°	6858.9	3481.0	1285.5	1200.9	1261.2	1204.4	1148.8	1092.0	1053.7	1047.9
50°	7352.7	3164.6	1141.8	1114.0	1220.6	1194.0	1164.9	1105.8	1042.1	1035.1
52.5°	7950.9	2891.0	1029.4	1037.5	1189.3	1207.9	1206.7	1145.3	1034.0	1024.7
55°	8618.6	2587.2	944.7	974.9	1176.6	1233.4	1217.1	1182.3	1041.0	1027.0
57.5°	9275.8	2232.6	885.6	927.3	1158.0	1231.0	1167.3	1117.5	1057.2	1037.5
60°	9768.5	1756.2	840.5	885.6	1117.5	1192.8	1112.8	1046.8	1053.7	1038.6
62.5°	9800.9	1357.4	785.9	849.7	1056.0	1154.5	1076.9	1015.5	1068.8	1054.9
65°	9224.8	1025.9	733.8	806.8	989.9	1130.2	1042.1	998.1	1100.1	1085.0
67.5°	7766.5	825.3	689.7	762.7	923.8	1079.2	1010.8	981.8	1127.9	1101.2
70°	5607.0	703.6	646.8	709.4	864.7	1021.2	983.0	952.9	1052.5	1010.8
72.5°	3452.0	609.8	598.1	638.7	819.6	961.0	941.2	898.4	948.2	914.6
75°	1723.7	528.6	543.7	569.2	755.8	892.5	871.7	828.8	835.8	828.8
77.5°	825.3	452.0	479.9	499.6	673.5	814.9	792.9	748.8	740.7	741.8
80°	522.8	377.9	404.6	418.5	601.6	724.5	702.5	658.4	751.2	696.6
82.5°	326.9	307.2	314.1	339.6	524.0	630.5	601.6	562.2	677.0	535.5
85°	180.9	214.4	223.7	245.7	403.3	527.4	498.5	448.6	402.2	395.3
87.5°	107.8	127.5	130.9	147.2	271.3	381.4	337.4	320.0	265.5	264.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)