

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: P269324

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL4-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19843.6 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 210
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

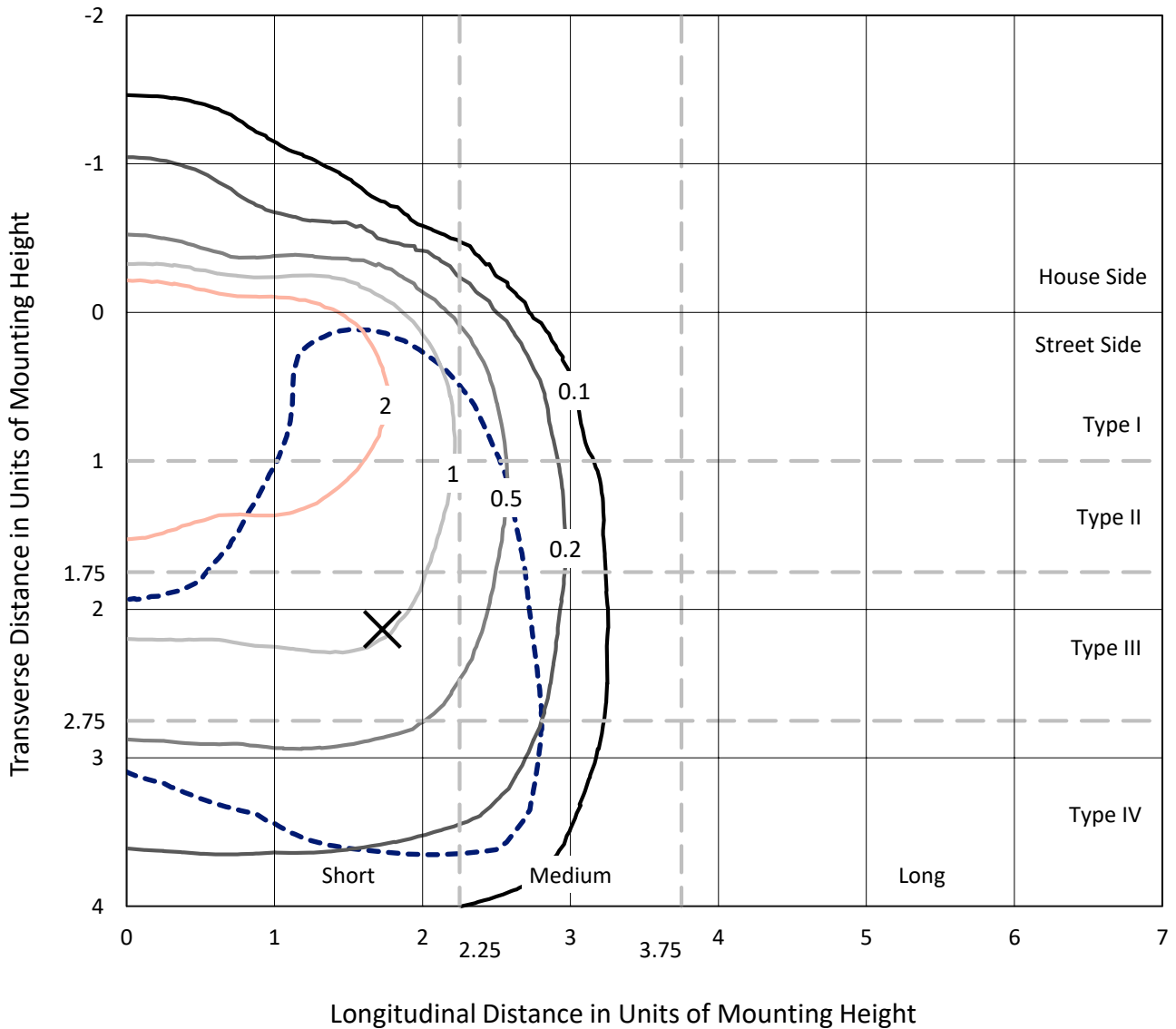


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Iso-Footcandle Lines of Horizontal Illumination

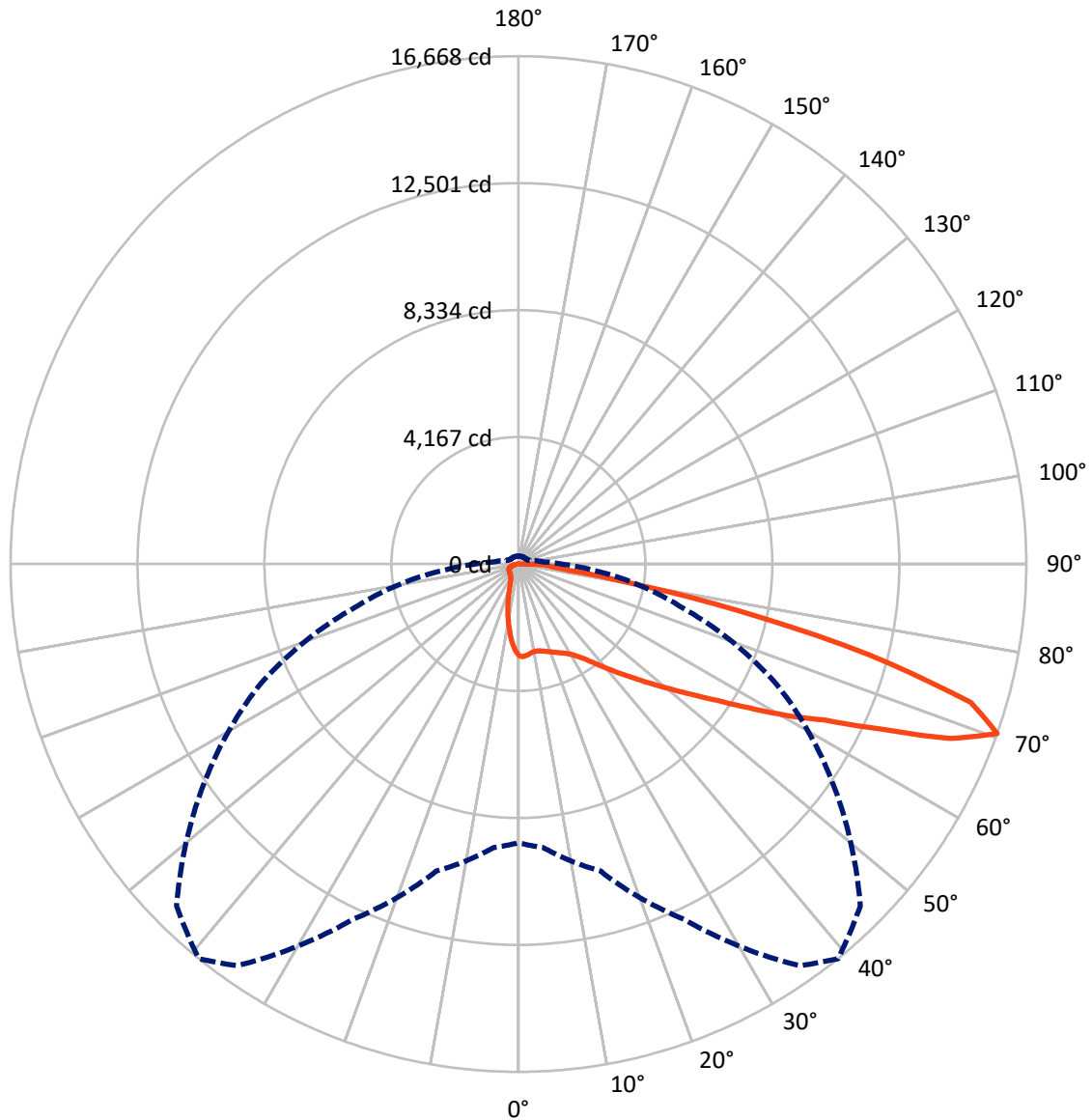
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2256.9	0.0	2256.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	17586.7	0.0	17586.7
	% Fixture	88.6	0.0	88.6
Total	Lumens	19843.6	0.0	19843.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.5	1.3
10°-20°	646.2	3.3
20°-30°	1006.2	5.1
30°-40°	1567.5	7.9
40°-50°	2631.6	13.3
50°-60°	4180.5	21.1
60°-70°	5576.3	28.1
70°-80°	3367.4	17.0
80°-90°	609.4	3.1
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°	19843.6	100.0
0°-180°	19843.6	100.0



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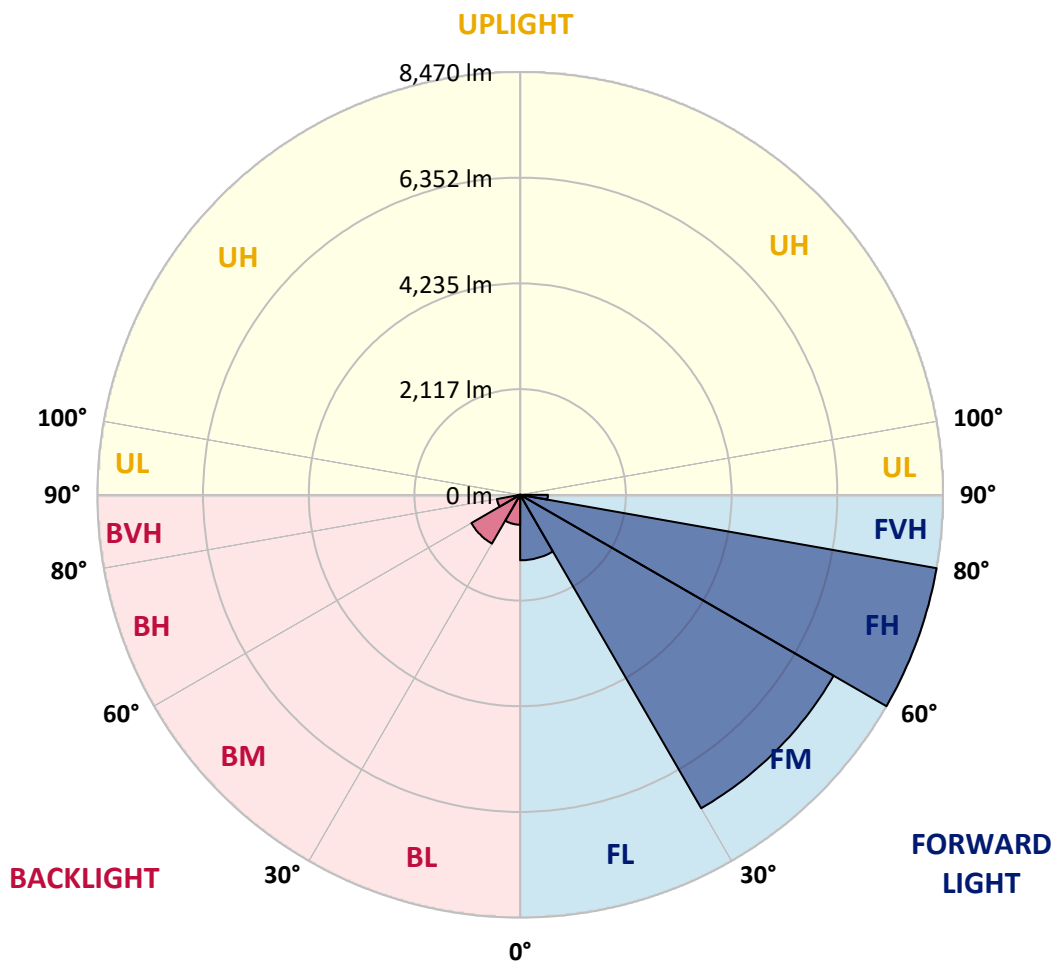
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1312.3	6.6			
FM	(30°-60°)	7250.1	36.5			
FH	(60°-80°)	8469.8	42.7			G4/12000
FVH	(80°-90°)	554.5	2.8			G4/750
BL	(0°-30°)	598.7	3.0	B2/1000		
BM	(30°-60°)	1129.4	5.7	B2/2500		
BH	(60°-80°)	473.8	2.4	B1/500		G1/500
BVH	(80°-90°)	54.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3012.6	3012.6	3012.6	3012.6	3012.6	3012.6	3012.6	3012.6	3012.6	3012.6	3012.6
2.5°	3071.0	3070.0	3062.1	3055.9	3051.0	3048.8	3052.9	3037.8	3024.7	3008.6	2991.4
5°	3047.9	3047.0	3033.8	3021.7	3009.5	3005.5	3004.6	2977.3	2961.2	2936.9	2904.6
7.5°	3022.6	3017.5	3000.5	2980.2	2959.0	2949.0	2939.0	2903.6	2885.4	2861.2	2823.9
10°	2996.4	2990.4	2974.2	2954.0	2933.9	2918.8	2901.5	2867.3	2848.2	2830.0	2786.5
12.5°	2969.2	2964.1	2960.2	2951.0	2936.9	2923.8	2910.7	2881.5	2861.2	2840.0	2789.5
15°	2965.1	2963.1	2972.2	2978.3	2970.2	2962.2	2948.0	2922.7	2901.5	2880.3	2814.7
17.5°	2997.5	2996.4	3019.7	3035.7	3031.7	3017.5	2998.5	2970.2	2953.1	2934.9	2853.1
20°	3068.0	3073.1	3101.4	3122.6	3102.3	3082.2	3051.0	3011.6	3002.4	2994.4	2892.5
22.5°	3201.2	3206.3	3226.4	3234.5	3182.1	3152.8	3109.5	3059.0	3052.9	3059.0	2940.0
25°	3409.1	3403.9	3401.1	3370.7	3275.0	3229.4	3174.0	3121.5	3124.6	3151.9	3006.4
27.5°	3684.5	3657.3	3614.9	3524.1	3371.7	3321.4	3253.8	3205.2	3224.5	3276.8	3106.3
30°	3970.0	3939.7	3842.0	3693.7	3498.9	3443.4	3367.7	3313.2	3363.7	3446.3	3239.6
32.5°	4234.3	4230.3	4087.1	3896.4	3674.3	3626.0	3550.3	3488.7	3570.6	3696.5	3439.3
35°	4522.8	4531.9	4360.5	4131.5	3911.5	3861.1	3806.6	3760.1	3869.1	4042.6	3728.9
37.5°	4831.7	4849.8	4647.0	4388.7	4181.9	4160.7	4128.4	4108.2	4276.7	4516.9	4133.5
40°	5244.2	5226.1	4944.6	4679.2	4513.9	4512.7	4502.8	4526.9	4807.4	5136.2	4653.0
42.5°	5686.1	5632.6	5260.4	4991.1	4878.1	4912.3	4932.6	5031.3	5446.1	5888.8	5286.6
45°	6162.4	6042.3	5588.3	5320.9	5282.7	5355.2	5423.8	5638.8	6197.6	6745.6	5980.7
47.5°	6542.6	6426.7	5927.2	5667.0	5750.7	5860.7	5992.9	6332.8	7039.1	7630.4	6665.8
50°	6842.3	6766.7	6269.4	6070.6	6266.2	6435.7	6651.7	7118.8	7914.7	8491.9	7300.3
52.5°	7132.9	7076.4	6614.3	6484.1	6871.6	7105.7	7399.2	7962.1	8812.7	9339.4	7834.1
55°	7395.1	7354.9	6985.6	6999.8	7583.9	7888.6	8257.8	8922.7	9791.3	10095.1	8286.1
57.5°	7690.7	7639.4	7409.3	7646.5	8499.0	8894.5	9374.6	10002.2	10709.5	10766.9	8630.0
60°	7988.4	7944.0	7879.6	8393.0	9661.2	10076.8	10531.9	11048.4	11640.6	11288.6	8610.0
62.5°	8246.7	8251.8	8365.7	9176.9	10799.2	11280.5	11835.3	12345.9	12483.0	11379.3	7973.3
65°	8684.5	8764.3	9104.3	10286.8	12401.3	13045.0	13726.0	13644.4	12716.1	10530.9	6608.3
67.5°	9205.2	9345.3	10034.4	11765.7	14426.2	15280.8	15544.1	13937.9	11782.9	8560.5	4710.5
70°	9152.7	9345.3	10436.0	12868.5	16094.9	16668.1	15868.9	12614.2	9356.4	5592.3	2502.0
72.5°	8127.7	8403.0	9617.9	12363.1	15569.3	15518.8	13776.4	9403.9	5559.0	2245.9	977.6
75°	6194.6	6473.0	7518.4	9767.1	12305.5	11881.8	9775.1	5194.8	2109.6	891.8	616.4
77.5°	3563.4	3779.3	4586.4	5989.8	7806.8	7372.0	5440.9	2310.4	1027.0	621.4	481.2
80°	1989.6	2109.6	2600.0	3038.7	3825.7	3507.0	2434.4	1435.6	766.8	450.9	371.3
82.5°	1572.8	1679.8	2102.6	1917.0	1747.5	1612.2	1398.3	1278.3	612.5	284.6	221.9
85°	1374.0	1476.1	1779.7	1509.3	1193.5	1094.7	1136.0	1258.0	476.2	171.4	189.7
87.5°	1273.3	1409.4	1586.0	1163.2	929.1	823.2	1048.2	1379.2	153.3	107.0	76.6
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°	3012.6	3012.6	3012.6	3012.6	3012.6	3012.6	3012.6	3012.6	3012.6	3012.6	3012.6
2.5°	2976.3	2960.2	2933.9	2910.7	2874.3	2855.2	2834.1	2818.8	2806.8	2796.7	2812.9
5°	2884.5	2854.2	2798.7	2739.1	2668.5	2613.0	2566.6	2523.2	2492.9	2472.9	2487.0
7.5°	2797.7	2748.3	2661.5	2553.5	2432.4	2329.6	2244.8	2170.1	2118.7	2085.3	2098.5
10°	2748.3	2686.7	2552.5	2383.1	2204.4	2044.1	1910.9	1795.8	1716.1	1670.8	1677.9
12.5°	2736.1	2656.4	2470.8	2237.8	1993.6	1770.6	1583.0	1423.5	1311.5	1253.0	1255.0
15°	2745.2	2643.4	2394.2	2098.5	1789.9	1508.3	1274.2	1080.5	950.3	883.8	882.8
17.5°	2760.3	2633.2	2313.3	1948.2	1583.0	1256.1	994.8	805.2	690.1	636.5	632.5
20°	2776.5	2617.1	2222.5	1785.7	1368.1	1022.0	778.9	630.6	557.8	528.7	526.6
22.5°	2799.7	2603.0	2128.8	1614.3	1157.1	832.3	640.6	540.8	502.4	487.3	485.3
25°	2836.9	2595.9	2028.9	1435.6	967.6	696.1	557.8	496.4	474.1	464.1	463.0
27.5°	2899.5	2606.0	1935.0	1262.1	813.1	604.3	511.6	474.1	458.0	449.0	448.0
30°	2980.2	2637.2	1836.1	1097.6	693.1	541.8	483.3	459.0	445.9	436.8	436.8
32.5°	3114.5	2689.7	1732.3	955.4	607.3	498.4	462.1	445.9	434.8	427.8	426.8
35°	3312.2	2788.6	1635.5	837.4	545.8	467.1	443.9	431.8	423.7	419.7	419.7
37.5°	3599.8	2945.0	1549.7	752.6	508.5	445.9	426.8	417.7	412.6	412.6	412.6
40°	3986.1	3160.9	1480.0	696.1	487.3	430.7	413.7	406.7	403.6	404.5	404.5
42.5°	4463.4	3441.3	1433.7	656.8	477.2	421.8	404.5	398.5	395.4	394.4	395.4
45°	5007.2	3760.1	1428.7	627.6	467.1	415.6	398.5	392.5	386.5	382.4	382.4
47.5°	5535.9	4084.1	1469.9	617.5	456.0	408.5	393.5	387.3	378.4	369.3	369.3
50°	6003.0	4359.5	1525.4	621.4	451.9	398.5	385.5	382.4	368.2	358.2	357.2
52.5°	6374.3	4571.4	1570.9	633.6	456.0	391.4	375.3	376.3	361.2	350.1	349.1
55°	6671.8	4710.5	1558.7	645.7	465.1	387.3	366.1	368.2	356.2	345.0	345.0
57.5°	6802.0	4659.1	1424.5	635.6	472.1	388.4	359.1	367.2	357.2	347.0	347.0
60°	6522.6	4202.0	1173.4	591.3	463.0	385.5	356.2	371.3	370.3	360.2	359.1
62.5°	5677.1	3383.8	910.1	525.7	431.8	370.3	348.1	370.3	381.4	378.4	377.3
65°	4375.6	2410.2	695.1	455.0	389.4	345.0	327.0	347.0	362.1	366.1	365.3
67.5°	2840.0	1477.1	535.7	388.4	342.1	315.8	299.7	308.7	311.7	311.7	309.7
70°	1396.3	795.0	426.8	327.0	293.6	284.6	275.4	270.4	265.3	261.2	261.2
72.5°	689.1	519.6	351.1	276.5	253.2	249.2	247.2	241.1	237.2	232.0	230.1
75°	509.5	422.7	298.6	233.1	217.8	213.8	217.8	212.9	211.9	207.9	205.8
77.5°	418.7	360.2	257.3	199.8	186.7	179.7	185.6	186.7	187.7	181.5	179.7
80°	340.0	304.6	214.9	165.5	153.3	148.3	152.4	160.3	162.5	153.3	149.3
82.5°	245.1	249.2	173.6	129.1	119.0	115.1	123.1	133.2	135.1	122.1	119.0
85°	205.8	207.9	133.2	91.7	81.7	75.6	88.8	98.9	105.9	92.9	89.8
87.5°	85.8	122.1	76.6	51.5	45.5	39.3	47.4	52.6	63.6	58.5	57.5
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)