

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: P192363

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192363  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
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-T4W-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23869 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - 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

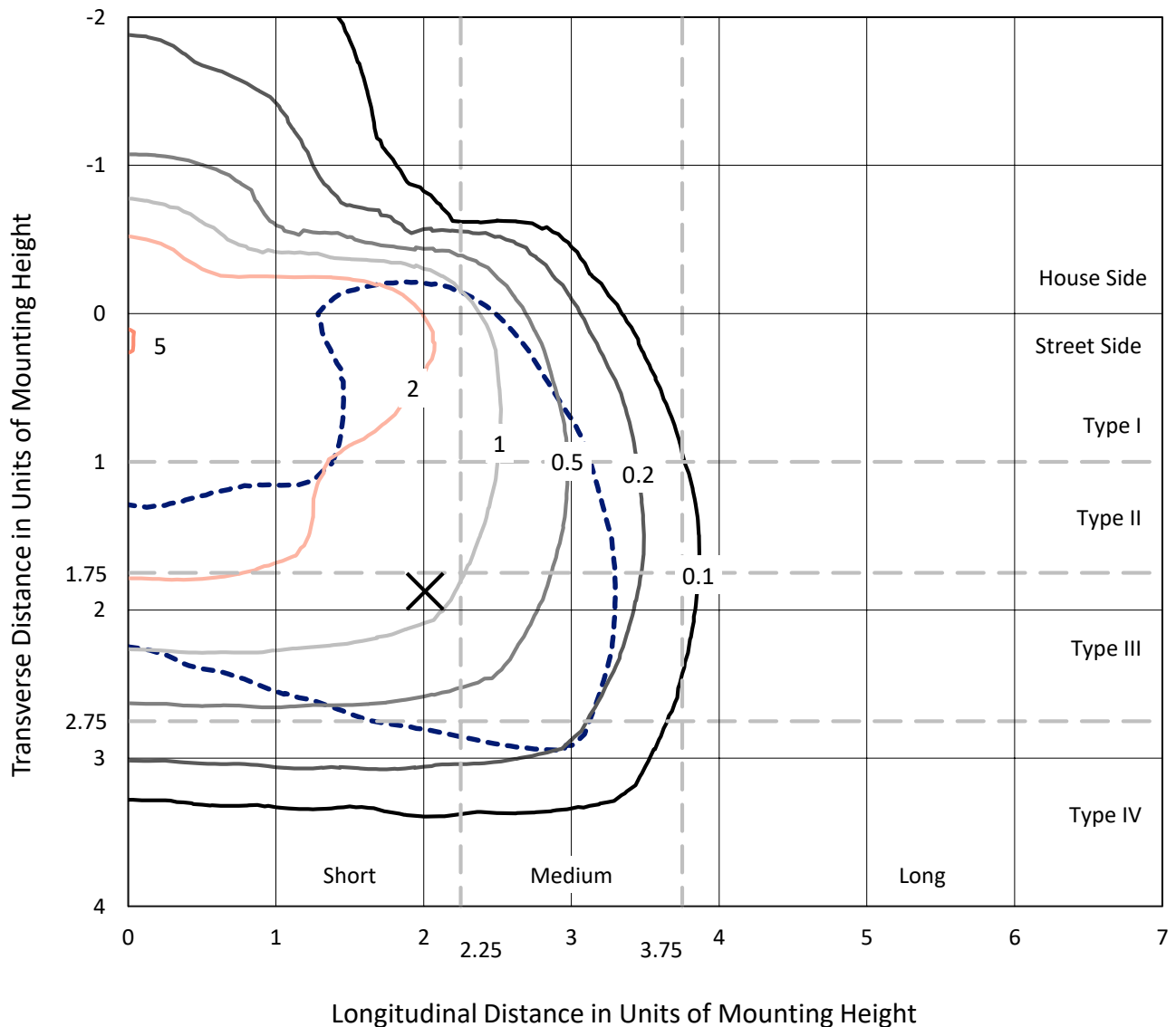


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

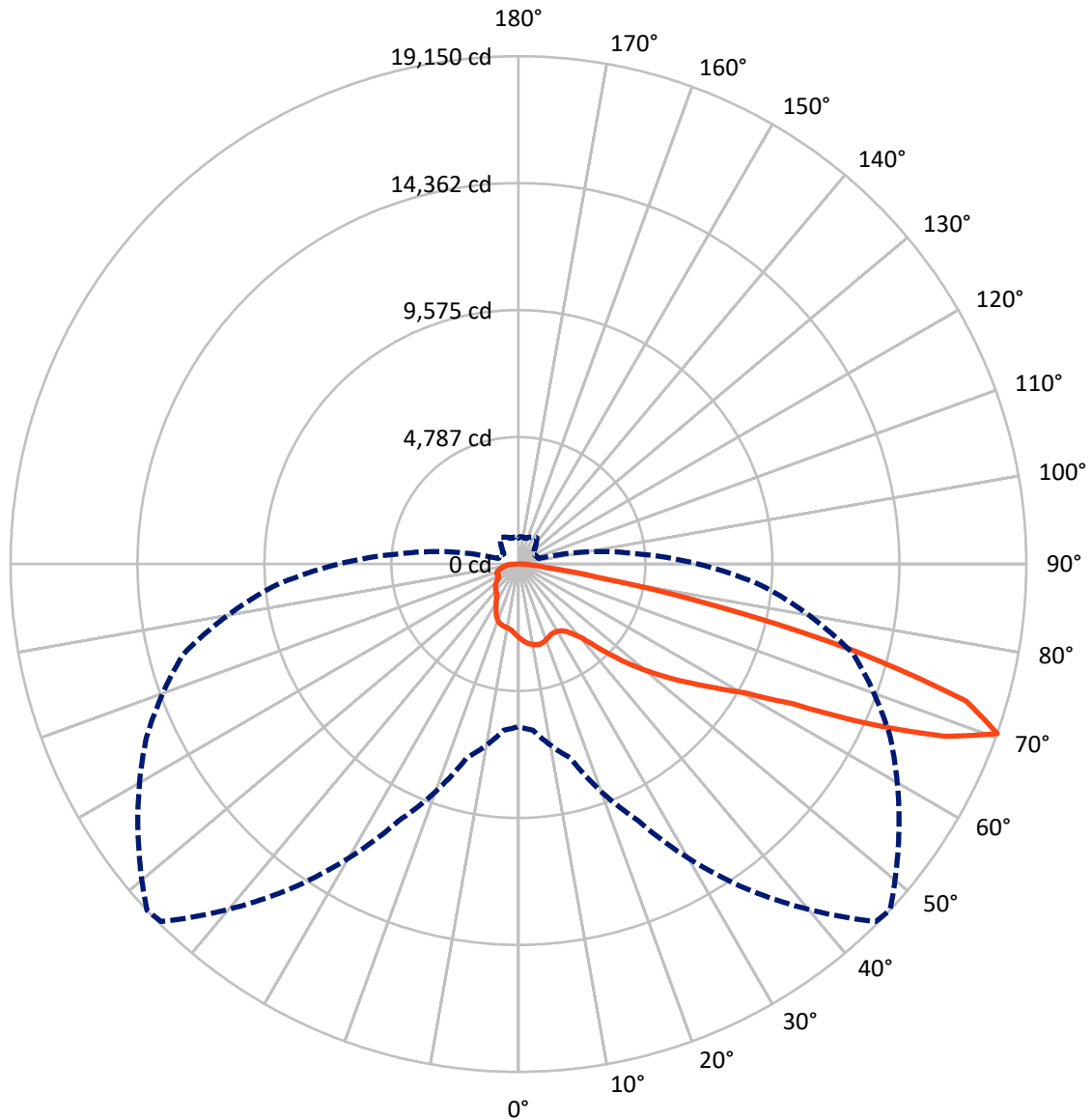


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4979.5	0.0	4979.5
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	18889.5	0.0	18889.5
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	23869.0	0.0	23869.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.4	1.1
10°-20°	778.5	3.3
20°-30°	1149.7	4.8
30°-40°	1671.0	7.0
40°-50°	3007.3	12.6
50°-60°	5209.8	21.8
60°-70°	7435.8	31.2
70°-80°	3817.1	16.0
80°-90°	534.4	2.2
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°	23869.0	100.0
0°-180°	23869.0	100.0



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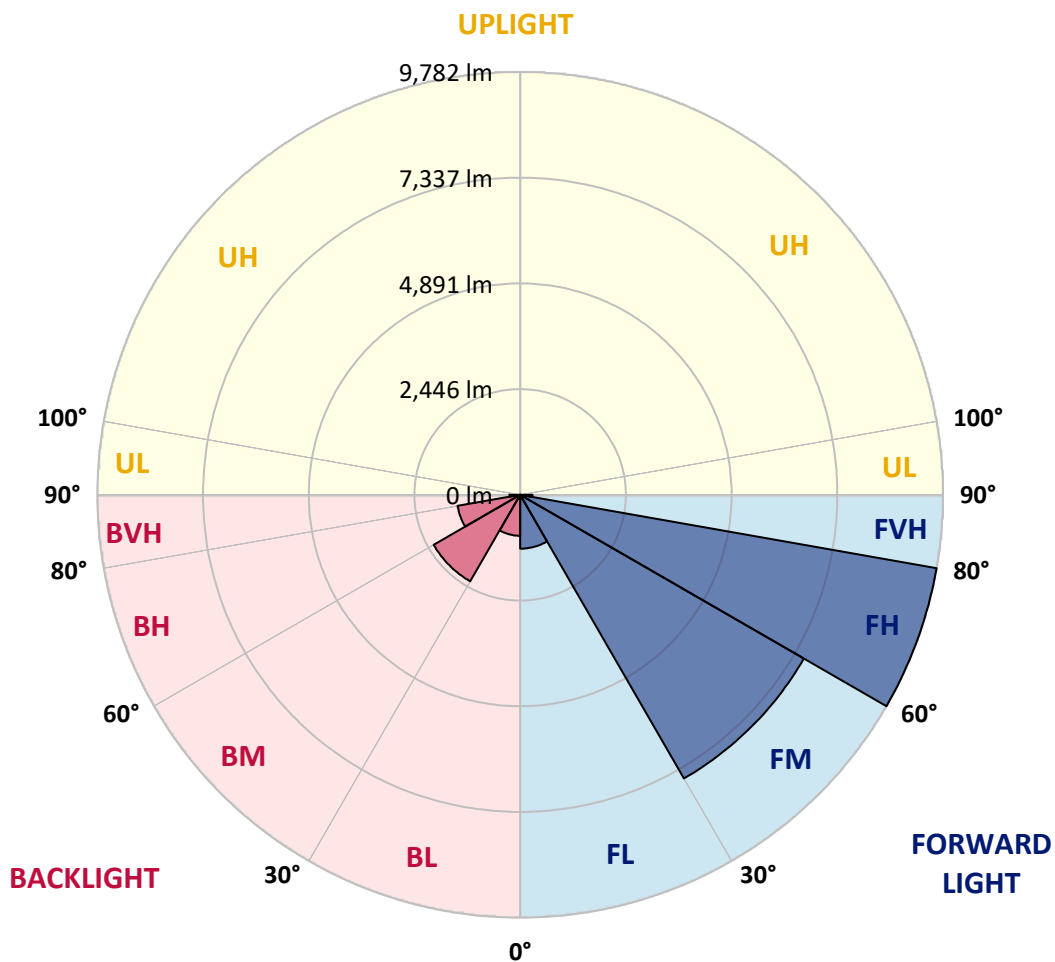
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.4	5.2			
FM	(30°-60°)	7576.7	31.7			
FH	(60°-80°)	9782.2	41.0			G4/12000
FVH	(80°-90°)	285.2	1.2			G3/500
BL	(0°-30°)	948.1	4.0	B2/1000		
BM	(30°-60°)	2311.4	9.7	B2/2500		
BH	(60°-80°)	1470.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	249.2	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5
2.5°	2932.1	2926.3	2924.0	2919.3	2913.5	2884.5	2878.7	2857.8	2828.8	2798.6	2767.2
5°	3124.9	3123.7	3111.0	3087.7	3050.6	2986.7	2971.6	2920.5	2852.0	2785.8	2719.6
7.5°	3294.4	3284.0	3259.6	3213.1	3148.1	3061.0	3040.1	2969.3	2875.2	2784.6	2695.2
10°	3418.7	3412.9	3359.5	3295.6	3210.8	3114.4	3090.0	3011.1	2907.7	2792.8	2681.3
12.5°	3489.5	3477.9	3416.4	3339.7	3238.7	3144.6	3120.2	3040.1	2924.0	2792.8	2661.6
15°	3484.9	3476.7	3415.2	3331.6	3229.4	3146.9	3124.9	3044.8	2920.5	2781.2	2636.0
17.5°	3392.0	3395.5	3343.2	3260.7	3177.1	3114.4	3094.7	3020.4	2897.3	2757.9	2605.8
20°	3229.4	3245.7	3210.8	3137.7	3091.2	3048.2	3035.5	2972.8	2861.3	2724.3	2573.3
22.5°	3066.8	3081.9	3068.0	3006.4	2999.5	2973.9	2967.0	2921.7	2829.9	2703.4	2553.6
25°	2947.2	2961.2	2958.8	2905.4	2926.3	2925.2	2919.3	2897.3	2823.0	2703.4	2557.0
27.5°	2914.7	2919.3	2914.7	2865.9	2895.0	2918.2	2913.5	2910.1	2843.9	2737.0	2601.2
30°	3026.2	3019.2	2983.2	2884.5	2911.2	2943.7	2939.1	2941.4	2906.6	2825.3	2699.9
32.5°	3470.9	3439.6	3325.8	3048.2	2977.4	2994.8	2997.1	3035.5	3041.3	2961.2	2853.2
35°	4136.3	4101.5	3954.0	3487.2	3182.9	3122.6	3122.6	3180.6	3215.5	3156.2	3091.2
37.5°	4841.2	4802.9	4723.9	4095.7	3614.9	3344.4	3338.6	3379.2	3429.1	3443.1	3459.3
40°	5642.4	5601.8	5623.9	4778.5	4217.6	3728.7	3646.3	3617.2	3752.0	3841.4	3971.4
42.5°	6519.2	6500.6	6508.7	5539.1	4903.9	4303.5	4186.3	4036.5	4199.0	4358.1	4631.0
45°	7330.9	7347.1	7339.0	6353.1	5668.0	5004.9	4880.7	4590.4	4749.5	5022.3	5467.1
47.5°	8041.6	7974.2	8078.7	7242.6	6523.8	5789.9	5636.6	5247.6	5409.0	5745.8	6498.3
50°	8904.4	8895.1	8741.8	8429.4	7558.5	6578.4	6377.5	5926.9	6177.8	6645.8	7797.7
52.5°	9811.3	9642.9	9502.4	9352.6	8655.9	7386.6	7140.4	6603.9	7081.2	7670.0	9381.6
55°	9997.1	9921.6	10095.8	10347.8	9713.7	8226.2	7939.4	7452.8	8098.5	8840.5	11208.2
57.5°	10394.2	10393.1	10753.0	11202.4	10803.0	9116.9	8827.7	8478.2	9242.3	10181.7	13147.5
60°	10662.5	10737.9	11406.8	12278.9	11872.5	10145.7	9879.8	9661.5	10542.9	11680.9	14954.4
62.5°	10803.0	10905.2	11817.9	12715.5	13384.4	11858.5	11592.6	11277.9	12263.8	13325.2	16011.1
65°	10218.9	10419.8	11754.0	13092.9	14708.2	14635.1	14515.4	13962.7	14415.6	14624.6	15629.1
67.5°	8602.4	8808.0	10361.7	12741.1	15653.5	17312.9	17338.4	16394.3	15739.4	14736.1	13140.5
70°	6129.0	6290.4	7575.9	10682.2	14933.5	19062.8	19149.9	17514.9	15475.8	13068.5	9180.7
72.5°	2910.1	3008.8	4225.7	6952.3	11850.4	17466.1	17634.5	16084.3	13159.1	9675.4	5008.4
75°	1069.5	1099.7	1428.3	2957.7	6873.4	12880.4	13079.0	11529.9	8723.2	4816.8	1907.9
77.5°	641.0	660.7	801.3	1248.3	2703.4	7362.2	7656.0	6270.7	3812.3	1792.9	938.3
80°	448.2	462.2	574.8	776.9	1277.4	2805.5	3066.8	2559.4	1518.9	1134.5	682.8
82.5°	303.1	310.0	404.1	524.9	848.9	1002.1	1081.1	1138.0	1024.2	844.2	433.1
85°	198.6	205.5	274.1	346.0	540.0	517.9	529.5	670.0	747.8	573.7	240.4
87.5°	113.8	118.4	164.9	184.6	264.8	219.5	221.8	353.0	478.4	386.7	146.3
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°	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5
2.5°	2759.1	2744.0	2710.3	2689.4	2669.7	2665.0	2656.9	2655.7	2654.6	2654.6	2651.1
5°	2697.6	2672.0	2619.7	2590.7	2566.3	2564.0	2562.8	2568.7	2571.0	2573.3	2569.8
7.5°	2658.1	2623.2	2558.2	2516.4	2487.4	2480.4	2492.0	2518.7	2536.1	2543.1	2539.6
10°	2633.7	2590.7	2515.2	2469.9	2445.6	2442.1	2457.2	2488.5	2524.5	2538.5	2537.3
12.5°	2605.8	2557.0	2476.9	2429.3	2415.4	2422.3	2442.1	2471.1	2508.3	2530.3	2531.5
15°	2577.9	2521.0	2438.6	2396.8	2391.0	2400.3	2418.9	2440.9	2469.9	2492.0	2494.3
17.5°	2544.3	2485.0	2402.6	2359.6	2355.0	2359.6	2360.8	2372.4	2391.0	2411.9	2417.7
20°	2508.3	2447.9	2362.0	2319.0	2298.1	2279.5	2258.6	2260.9	2266.7	2287.6	2292.3
22.5°	2482.7	2422.3	2330.6	2271.4	2215.6	2159.9	2118.1	2112.3	2114.6	2132.0	2137.8
25°	2485.0	2421.2	2322.5	2220.3	2098.4	2008.9	1953.2	1943.9	1942.7	1955.5	1963.6
27.5°	2530.3	2466.5	2352.7	2168.0	1970.6	1838.2	1779.0	1772.0	1762.8	1766.2	1775.5
30°	2631.4	2572.1	2425.8	2114.6	1832.4	1671.0	1609.5	1602.5	1589.7	1583.9	1590.9
32.5°	2796.3	2747.5	2532.7	2063.5	1694.2	1528.2	1465.5	1450.4	1442.3	1435.3	1441.1
35°	3070.3	3049.4	2675.5	2007.8	1572.3	1417.9	1361.0	1337.7	1326.1	1338.9	1348.2
37.5°	3500.0	3511.6	2862.4	1920.7	1478.3	1344.7	1297.1	1270.4	1253.0	1263.4	1273.9
40°	4108.5	4116.6	3069.1	1797.6	1397.0	1301.7	1250.7	1226.3	1201.9	1183.3	1182.1
42.5°	4907.4	4824.9	3272.4	1664.1	1302.9	1275.0	1218.1	1187.9	1150.8	1099.7	1089.2
45°	5855.0	5565.8	3426.8	1510.8	1197.2	1242.5	1182.1	1140.3	1082.3	1026.5	1020.7
47.5°	6946.5	6361.2	3502.3	1351.7	1098.5	1194.9	1138.0	1071.8	998.7	970.8	967.3
50°	8279.6	7305.3	3538.3	1197.2	1012.6	1132.2	1074.1	996.3	934.8	929.0	925.5
52.5°	9797.3	8441.0	3549.9	1070.7	941.8	1050.9	1021.9	946.4	897.6	902.3	902.3
55°	11385.9	9613.9	3392.0	978.9	876.7	967.3	987.1	926.7	886.0	904.6	911.6
57.5°	12844.4	10653.2	2895.0	908.1	815.2	903.4	974.3	945.2	917.4	992.9	997.5
60°	13963.9	11267.5	2162.2	844.2	769.9	881.4	1008.0	1016.1	1023.0	1203.0	1227.4
62.5°	14198.4	11063.1	1486.4	794.3	749.0	900.0	1069.5	1070.7	1062.5	1187.9	1203.0
65°	13122.0	9770.6	1081.1	766.4	731.6	933.6	1121.8	1097.4	1044.0	1139.2	1111.3
67.5°	10420.9	7361.1	900.0	745.5	706.0	931.3	1177.5	1121.8	1033.5	1115.9	1070.7
70°	6764.2	4451.0	801.3	728.1	675.8	887.2	1210.0	1119.4	1003.3	1038.1	984.7
72.5°	3300.2	1990.4	735.1	702.5	644.5	825.6	1208.8	1098.5	972.0	969.6	940.6
75°	1291.3	911.6	674.7	664.2	591.1	756.0	1176.3	1068.3	934.8	897.6	887.2
77.5°	756.0	650.3	598.0	607.3	527.2	686.3	1128.7	1016.1	883.7	839.6	828.0
80°	550.4	486.6	509.8	524.9	450.6	616.6	1064.9	952.2	826.8	848.9	832.6
82.5°	353.0	313.5	413.4	428.5	375.1	545.8	995.2	884.9	746.7	678.2	661.9
85°	180.0	198.6	307.7	326.3	289.1	448.2	910.4	795.4	656.1	564.4	573.7
87.5°	101.0	135.9	196.2	219.5	204.4	344.9	738.5	656.1	535.3	435.5	383.2
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)