

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P635908

Luminaire Tested: GWS-SA3E-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-760-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19527 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

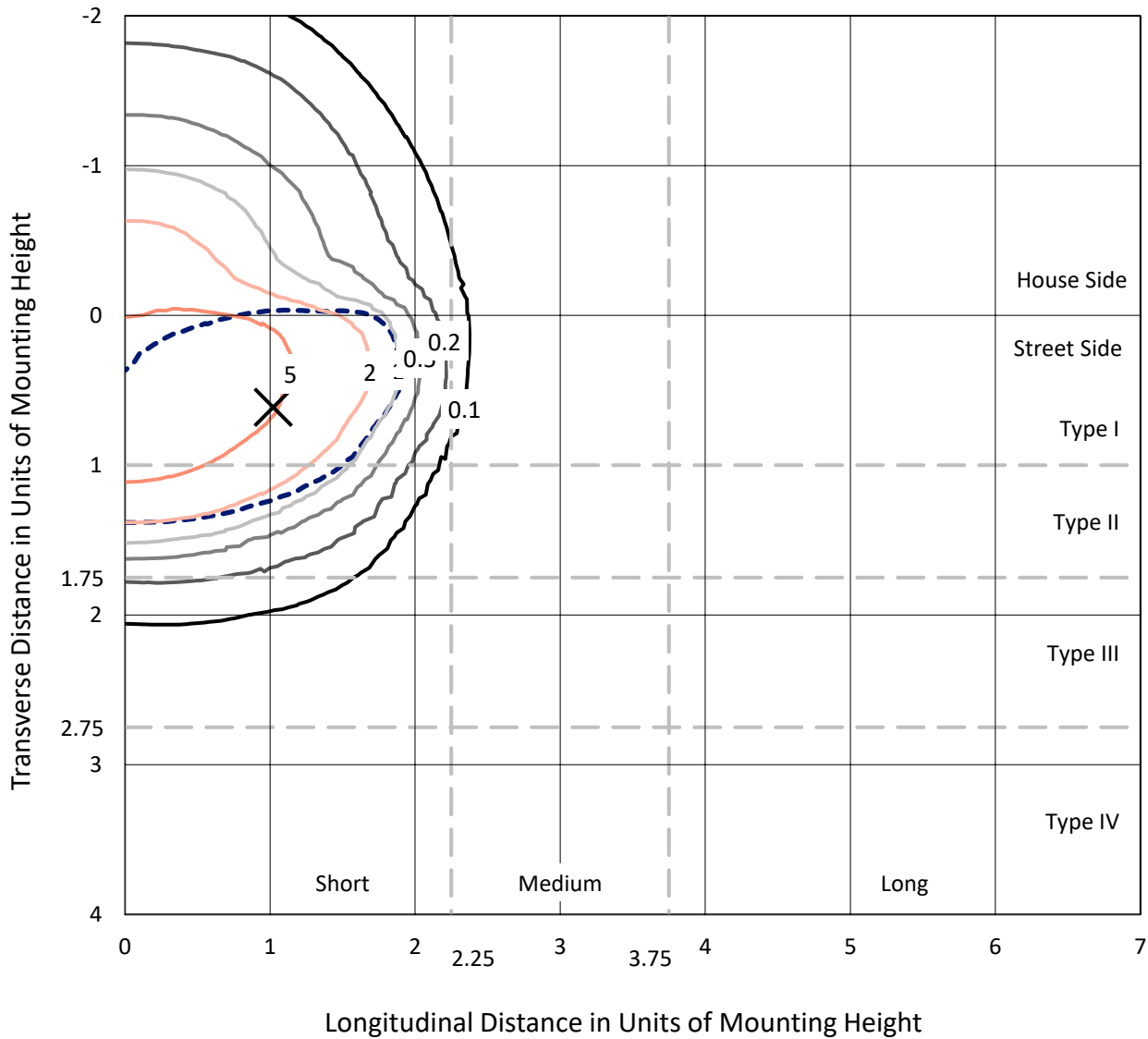
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

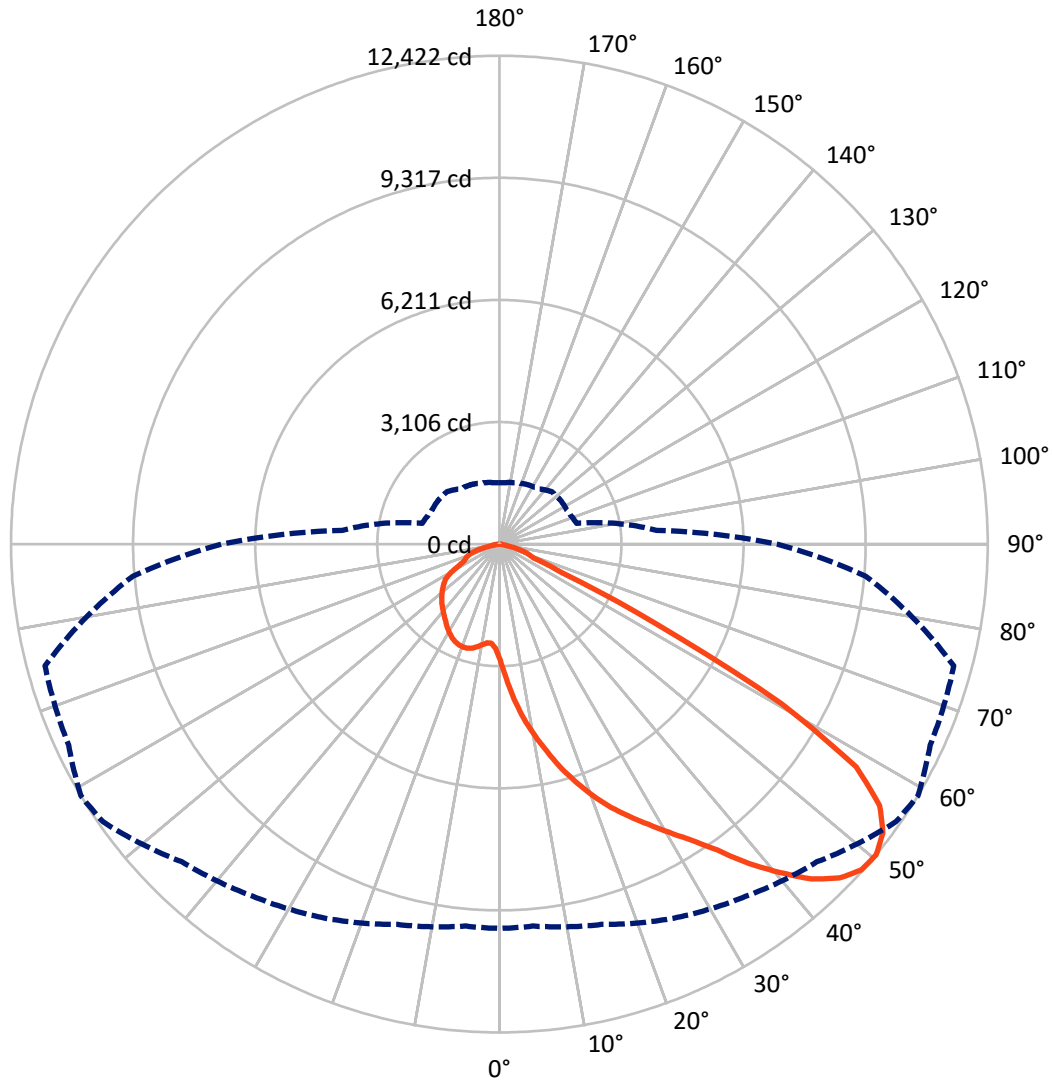
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4491.6	0.0	4491.6
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	15035.4	0.0	15035.4
	% Fixture	77.0	0.0	77.0
Total	Lumens	19527.0	0.0	19527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.9	1.7
10°-20°	1204.8	6.2
20°-30°	2281.4	11.7
30°-40°	3783.3	19.4
40°-50°	5168.3	26.5
50°-60°	4691.4	24.0
60°-70°	1562.3	8.0
70°-80°	455.7	2.3
80°-90°	47.9	0.2
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°	19527.0	100.0
0°-180°	19527.0	100.0

Coefficient of Utilization



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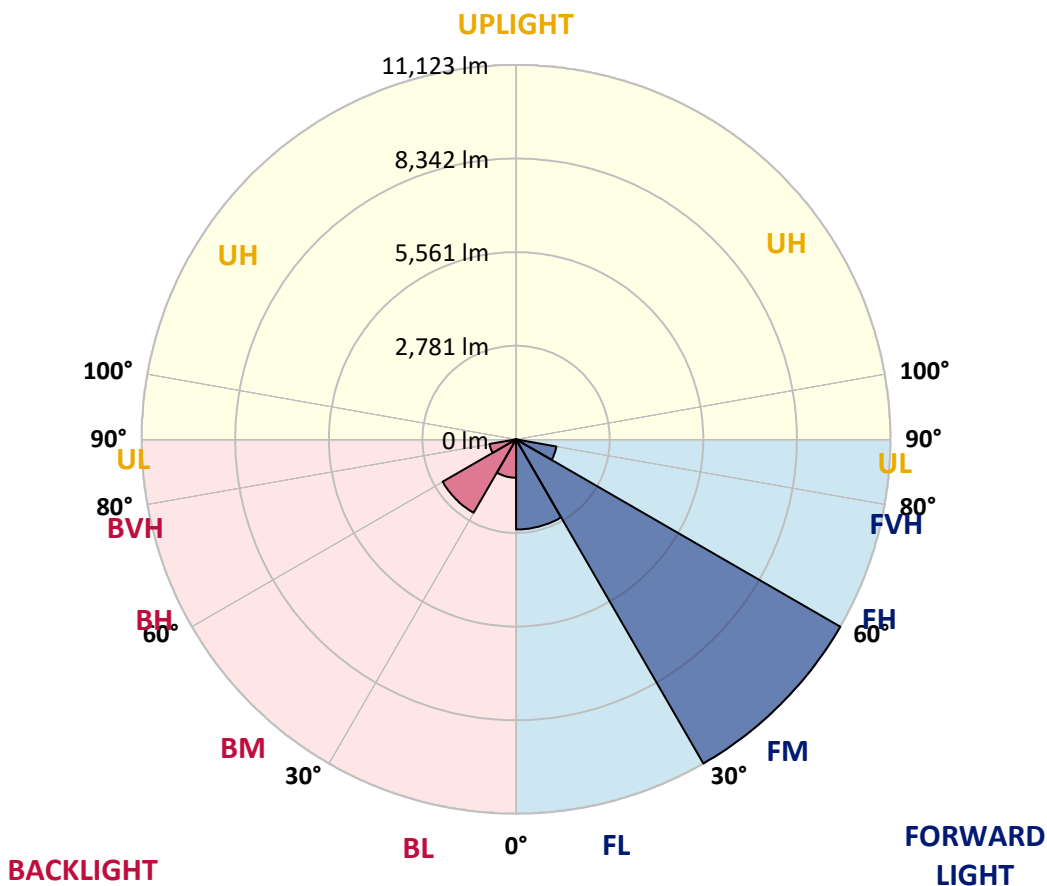
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2677.6	13.7			
FM (30°-60°)	11122.8	57.0			
FH (60°-80°)	1216.3	6.2			G1/1800
FVH (80°-90°)	18.7	0.1			G1/100
BL (0°-30°)	1140.5	5.8	B3/2500		
BM (30°-60°)	2520.2	12.9	B3/5000		
BH (60°-80°)	801.7	4.1	B2/1000		G2/1000
BVH (80°-90°)	29.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5
2.5°	3833.3	3861.9	3817.4	3820.6	3709.2	3658.3	3515.2	3430.9	3375.2	3219.3	3077.8
5°	4606.3	4572.9	4537.9	4517.2	4420.2	4283.4	4105.3	3963.7	3833.3	3527.9	3233.6
7.5°	5080.3	5062.8	5039.0	5026.2	4930.8	4787.6	4609.5	4488.6	4299.3	3885.8	3422.9
10°	5482.7	5462.1	5447.7	5457.3	5379.3	5287.1	5093.0	4954.7	4741.5	4264.3	3652.0
12.5°	5794.5	5805.6	5810.4	5861.3	5827.9	5772.2	5571.8	5425.5	5188.5	4663.6	3920.8
15°	6041.0	6037.8	6093.5	6190.5	6244.6	6209.6	6049.0	5926.5	5637.0	5056.5	4210.3
17.5°	6098.3	6101.5	6188.9	6359.1	6535.7	6621.6	6530.9	6384.6	6098.3	5444.6	4510.9
20°	6144.4	6150.8	6241.4	6435.5	6693.2	6933.3	6947.7	6842.7	6596.1	5864.5	4816.3
22.5°	6435.5	6449.8	6473.7	6596.1	6828.4	7132.2	7299.2	7276.9	7070.1	6305.1	5145.5
25°	7200.6	7157.6	7041.5	7006.5	7095.6	7342.1	7626.8	7669.8	7568.0	6790.2	5500.2
27.5°	8145.4	8099.2	7927.5	7746.1	7553.7	7639.6	7943.4	8072.2	8073.8	7324.6	5856.5
30°	9002.7	8966.1	8826.1	8566.9	8234.4	8110.4	8334.6	8508.0	8611.4	7941.8	6262.1
32.5°	9735.9	9702.5	9513.3	9301.7	8977.2	8727.5	8808.6	8975.6	9217.4	8740.2	6766.3
35°	10353.1	10319.7	10138.4	9925.2	9624.6	9475.1	9446.5	9561.0	9874.3	9573.7	7345.3
37.5°	10854.1	10820.7	10631.4	10431.0	10202.0	10211.5	10254.5	10310.1	10489.9	10466.0	7964.0
40°	11178.6	11143.6	11008.4	10865.3	10720.5	10835.0	11048.2	10981.4	11076.8	11186.5	8533.5
42.5°	11323.3	11278.8	11200.9	11169.1	11124.5	11302.7	11713.0	11646.2	11531.7	11666.9	8956.6
45°	11178.6	11140.4	11138.8	11235.9	11339.2	11568.3	12172.7	12118.6	11829.1	11899.1	9209.5
47.5°	10734.8	10701.4	10792.1	11046.6	11301.1	11635.1	12377.9	12387.4	12040.7	11996.2	9373.3
50°	9775.7	9753.4	10015.9	10497.8	10936.8	11426.7	12312.7	12422.4	12091.6	11965.9	9352.6
52.5°	7825.7	7929.0	8500.1	9304.9	10157.4	11060.9	12070.9	12214.1	11846.6	11767.1	9241.3
55°	5357.1	5404.8	5975.8	7151.2	8503.2	10268.8	11515.8	11736.9	11557.2	11733.7	9357.4
57.5°	2774.0	2812.1	3262.3	4305.7	5767.4	8115.1	9974.5	10699.8	10973.4	11902.3	9718.4
60°	1138.9	1170.7	1356.8	1861.0	2909.2	4725.6	7178.3	8253.5	8896.1	10870.0	8630.5
62.5°	827.1	843.0	932.1	1110.2	1523.8	2315.9	4062.3	4458.4	4910.1	6812.5	5479.5
65°	696.7	714.2	785.7	893.9	1111.8	1420.4	1735.3	1744.9	1923.0	2775.6	2031.2
67.5°	583.7	599.6	663.3	755.5	898.7	1008.4	932.1	933.7	930.5	1006.8	973.4
70°	454.9	467.6	531.3	629.9	704.6	647.4	728.5	806.4	773.0	803.2	849.4
72.5°	332.4	346.7	402.4	477.2	458.1	461.3	590.1	669.6	650.5	683.9	726.9
75°	240.2	249.7	278.4	238.6	251.3	303.8	415.1	458.1	477.2	505.8	544.0
77.5°	77.9	77.9	87.5	109.8	136.8	168.6	211.5	229.0	257.7	289.5	316.5
80°	39.8	41.4	49.3	60.4	76.3	97.0	124.1	132.0	146.3	163.8	175.0
82.5°	19.1	20.7	23.9	30.2	39.8	50.9	68.4	76.3	85.9	97.0	105.0
85°	4.8	4.8	6.4	9.5	12.7	19.1	25.4	30.2	38.2	46.1	50.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	4.8	6.4	8.0	9.5	12.7
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°	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5
2.5°	3014.1	2925.1	2810.6	2713.5	2624.5	2556.1	2497.2	2468.6	2441.5	2422.5	2428.8
5°	3096.9	2944.2	2731.0	2583.1	2492.4	2446.3	2414.5	2398.6	2395.4	2382.7	2377.9
7.5°	3217.7	2999.8	2715.1	2565.6	2505.2	2481.3	2463.8	2454.3	2459.0	2446.3	2441.5
10°	3367.3	3092.1	2754.9	2622.9	2570.4	2552.9	2533.8	2521.1	2514.7	2495.6	2492.4
12.5°	3553.4	3206.6	2826.5	2696.0	2643.5	2613.3	2587.9	2565.6	2551.3	2527.4	2521.1
15°	3753.8	3333.9	2910.8	2767.6	2705.6	2661.0	2619.7	2586.3	2560.8	2529.0	2524.3
17.5°	3971.7	3467.5	2980.7	2816.9	2737.4	2678.5	2618.1	2568.8	2533.8	2492.4	2487.7
20°	4199.1	3602.7	3033.2	2840.8	2739.0	2659.4	2578.3	2513.1	2468.6	2427.2	2424.0
22.5°	4434.5	3726.7	3065.0	2834.4	2713.5	2614.9	2517.9	2444.7	2392.2	2342.9	2339.7
25°	4671.5	3846.0	3073.0	2809.0	2662.6	2548.1	2451.1	2365.2	2306.3	2250.7	2244.3
27.5°	4911.7	3946.2	3053.9	2758.1	2594.2	2470.2	2373.1	2288.8	2228.4	2172.7	2163.2
30°	5167.8	4032.1	3012.6	2691.3	2514.7	2387.5	2292.0	2228.4	2171.1	2115.5	2105.9
32.5°	5441.4	4106.9	2953.7	2610.1	2422.5	2304.8	2234.8	2177.5	2120.2	2070.9	2061.4
35°	5767.4	4156.2	2866.2	2505.2	2336.6	2244.3	2196.6	2129.8	2059.8	2005.7	2000.9
37.5°	6104.6	4194.4	2761.2	2405.0	2261.8	2209.3	2169.6	2078.9	1991.4	1926.2	1918.2
40°	6430.7	4226.2	2630.8	2311.1	2193.4	2183.9	2129.8	2016.9	1865.8	1792.6	1786.2
42.5°	6734.5	4235.7	2494.0	2210.9	2131.4	2126.6	2066.2	1891.2	1775.1	1729.0	1722.6
45°	6942.9	4227.8	2352.5	2117.1	2069.3	2043.9	1980.3	1800.5	1729.0	1687.6	1679.7
47.5°	7097.2	4186.4	2193.4	2018.4	1999.4	1964.4	1827.6	1743.3	1676.5	1635.1	1627.2
50°	7070.1	4014.6	2032.8	1923.0	1915.1	1884.8	1716.2	1671.7	1612.8	1568.3	1561.9
52.5°	6930.2	3688.6	1868.9	1818.0	1833.9	1775.1	1636.7	1585.8	1534.9	1484.0	1472.9
55°	6965.1	3453.1	1744.9	1716.2	1744.9	1611.3	1547.6	1493.6	1445.8	1396.5	1387.0
57.5°	7117.8	3220.9	1612.8	1606.5	1636.7	1485.6	1433.1	1364.7	1296.3	1256.6	1256.6
60°	5977.4	2347.7	1380.6	1396.5	1464.9	1383.8	1337.7	1267.7	1192.9	1157.9	1157.9
62.5°	3534.3	1472.9	1145.2	1127.7	1170.7	1221.6	1247.0	1189.8	1100.7	1054.6	1056.1
65°	1557.2	1072.1	1010.0	995.7	983.0	1018.0	1088.0	1092.7	998.9	944.8	946.4
67.5°	959.1	970.3	944.8	933.7	922.5	916.2	909.8	913.0	887.5	838.2	836.6
70°	865.3	895.5	878.0	868.5	854.1	843.0	804.8	742.8	699.9	687.1	701.4
72.5°	744.4	785.7	776.2	771.4	753.9	726.9	676.0	615.6	564.7	532.8	539.2
75°	561.5	594.9	599.6	601.2	582.2	556.7	504.2	453.3	408.8	375.4	383.3
77.5°	322.9	342.0	346.7	351.5	337.2	327.7	292.7	256.1	232.2	197.2	206.8
80°	179.7	187.7	187.7	189.3	181.3	170.2	146.3	125.7	114.5	98.6	100.2
82.5°	108.2	111.3	112.9	114.5	109.8	98.6	81.1	66.8	60.4	52.5	50.9
85°	52.5	55.7	55.7	57.3	49.3	42.9	33.4	25.4	22.3	15.9	17.5
87.5°	12.7	14.3	14.3	12.7	11.1	8.0	4.8	1.6	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)