

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: P637725

Luminaire Tested: GWS-SA4D-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24628.6 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

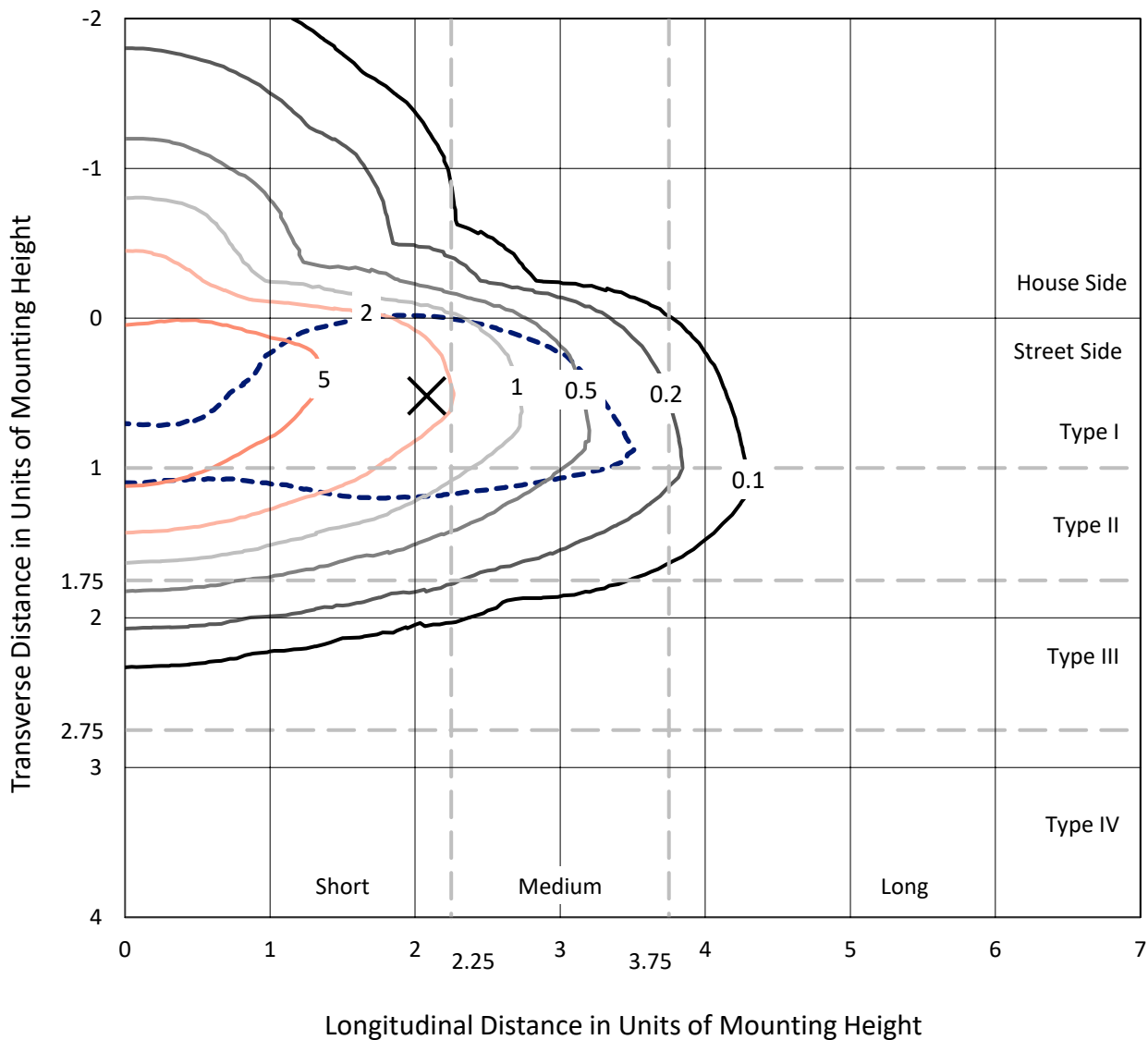
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

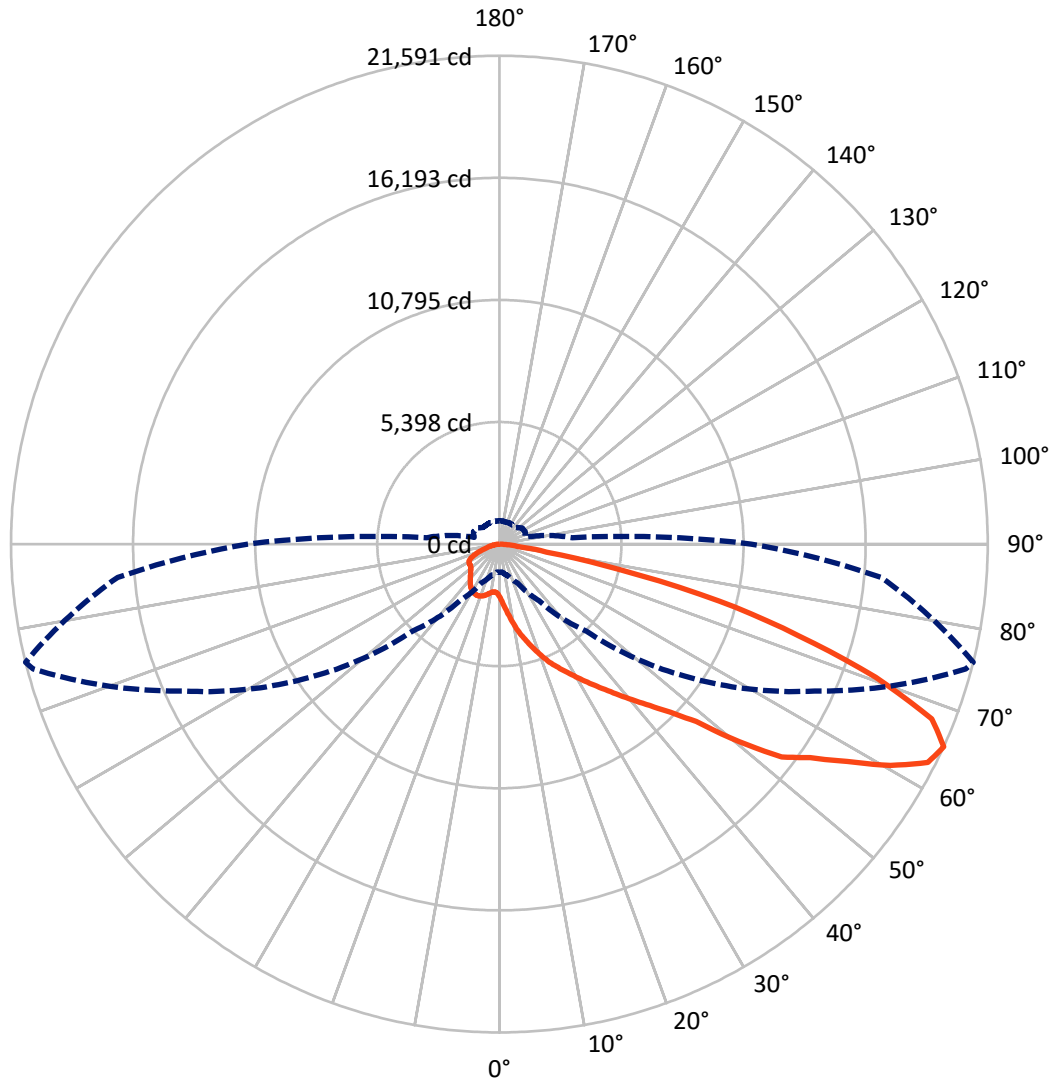
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4116.7	0.0	4116.7
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	20511.9	0.0	20511.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	24628.6	0.0	24628.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	1.1
10°-20°	1055.4	4.3
20°-30°	2056.8	8.4
30°-40°	3439.8	14.0
40°-50°	4925.2	20.0
50°-60°	5830.7	23.7
60°-70°	4848.3	19.7
70°-80°	1984.1	8.1
80°-90°	211.2	0.9
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°	24628.6	100.0
0°-180°	24628.6	100.0

Coefficient of Utilization



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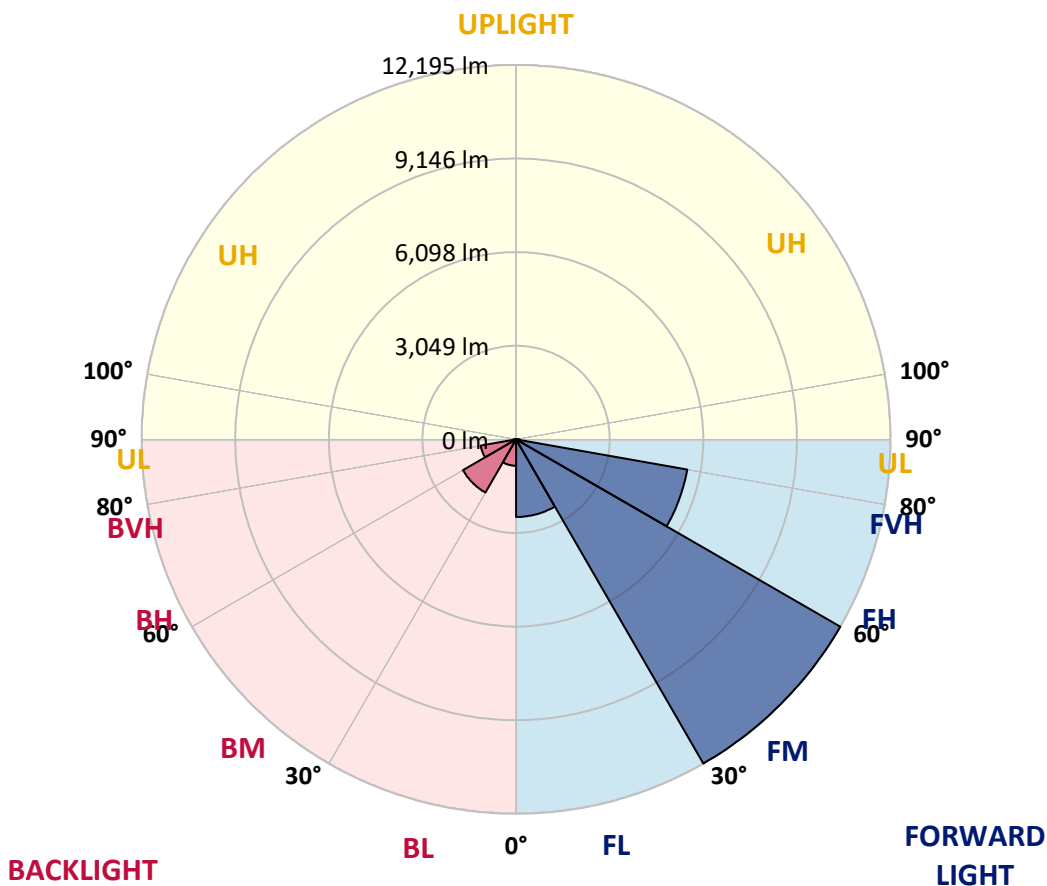
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2528.0	10.3			
FM (30°-60°)	12195.2	49.5			
FH (60°-80°)	5662.7	23.0			G3/7500
FVH (80°-90°)	126.0	0.5			G2/225
BL (0°-30°)	861.2	3.5	B2/1000		
BM (30°-60°)	2000.6	8.1	B2/2500		
BH (60°-80°)	1169.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	85.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2332.2	2332.2	2332.2	2332.2	2332.2	2332.2	2332.2	2332.2	2332.2	2332.2	2332.2
2.5°	3268.9	3281.1	3241.2	3227.4	3133.9	3007.5	2901.9	2742.6	2595.4	2572.9	2441.3
5°	4152.0	4100.0	4055.0	4025.6	3895.7	3752.0	3528.7	3229.1	2915.7	2877.6	2593.7
7.5°	4676.6	4667.9	4612.5	4595.2	4494.8	4351.1	4120.8	3748.5	3293.2	3230.9	2799.7
10°	5097.3	5092.1	5064.4	5080.0	4988.3	4848.0	4624.7	4240.3	3707.0	3644.7	3030.0
12.5°	5464.4	5473.1	5467.9	5525.0	5478.2	5369.2	5137.2	4714.7	4120.8	4053.3	3310.5
15°	5732.8	5739.7	5765.7	5890.3	5916.3	5893.8	5658.3	5180.4	4529.4	4432.5	3599.6
17.5°	5809.0	5822.8	5885.1	6086.0	6226.2	6319.7	6144.8	5654.9	4931.1	4825.5	3894.0
20°	5911.1	5926.7	5989.0	6198.5	6404.6	6617.5	6586.4	6136.2	5336.3	5249.7	4191.8
22.5°	6383.8	6371.7	6344.0	6444.4	6591.6	6856.5	6934.4	6598.5	5755.3	5672.2	4520.8
25°	7294.5	7272.0	7095.4	7003.6	6955.2	7116.2	7254.7	7019.2	6163.9	6039.2	4827.2
27.5°	8298.7	8286.6	8061.5	7843.4	7545.6	7476.3	7557.7	7386.3	6560.4	6434.0	5093.9
30°	9249.3	9212.9	8977.5	8703.9	8305.7	8007.9	7888.4	7746.4	6995.0	6863.4	5405.5
32.5°	10099.4	10052.7	9775.7	9472.7	9055.4	8703.9	8347.2	8129.1	7486.7	7334.3	5724.1
35°	10797.2	10750.5	10466.5	10144.5	9685.6	9425.9	8937.6	8544.6	7987.1	7833.0	6099.8
37.5°	11337.4	11294.1	10998.0	10681.2	10281.2	10075.2	9651.0	9012.1	8563.7	8402.6	6498.1
40°	11640.4	11609.2	11372.0	11121.0	10785.1	10606.7	10416.3	9602.5	9209.5	9048.5	6967.3
42.5°	11732.2	11711.4	11545.2	11415.3	11188.5	11053.5	11162.5	10296.8	9898.6	9758.3	7495.4
45°	11501.9	11501.9	11453.4	11519.2	11529.6	11527.9	11910.5	11081.2	10745.3	10591.2	8239.9
47.5°	10913.2	10951.3	11022.3	11346.1	11687.2	11972.8	12784.9	12126.9	11834.3	11707.9	9294.3
50°	9836.3	9940.1	10182.5	10814.5	11540.0	12267.2	13612.5	13673.1	13951.9	13728.5	10845.7
52.5°	8258.9	8243.3	8861.5	9761.8	10868.2	12279.3	14067.9	15037.5	15787.2	15633.1	11998.8
55°	6563.9	6537.9	7114.4	8355.9	9838.0	11815.3	14341.4	15662.5	16805.3	16666.8	13035.9
57.5°	5026.3	4993.4	5506.0	6626.2	8383.6	10830.1	14289.5	16407.0	18206.0	18135.0	14445.3
60°	3459.4	3419.6	3899.2	4879.2	6662.5	9323.8	13714.7	16789.7	19845.7	19869.9	15953.4
62.5°	2077.7	2055.2	2403.2	3163.3	4792.6	7457.3	12369.3	16557.7	21151.2	21260.2	16923.0
65°	1253.6	1238.0	1442.3	1887.3	3040.4	5441.9	10295.1	15371.6	21339.9	21590.9	16945.5
67.5°	912.5	914.2	973.1	1149.7	1773.0	3514.8	7725.6	13245.4	20356.4	20616.1	15877.2
70°	793.0	796.5	827.6	867.4	1071.8	2011.9	5022.9	10456.1	17449.4	17650.2	13316.4
72.5°	704.7	704.7	725.5	746.2	838.0	1225.9	2690.6	7308.4	13771.8	13825.5	10163.5
75°	619.9	614.7	625.0	635.4	727.2	857.1	1309.0	5092.1	10172.2	10047.5	6569.0
77.5°	493.5	488.3	490.0	500.4	583.5	612.9	663.1	3180.6	5732.8	5410.7	2901.9
80°	351.5	348.0	367.1	393.0	431.1	375.7	415.5	1539.2	2273.4	2115.8	1125.4
82.5°	209.5	216.4	245.9	266.6	297.8	235.5	268.4	514.2	805.1	784.3	457.1
85°	29.4	31.2	88.3	102.2	128.1	91.8	142.0	232.0	322.0	344.6	161.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.1	41.6	91.8	93.5	39.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2332.2	2332.2	2332.2	2332.2	2332.2	2332.2	2332.2	2332.2	2332.2	2332.2	2332.2
2.5°	2373.8	2292.4	2176.4	2079.4	1998.1	1932.3	1876.9	1835.3	1823.2	1805.9	1805.9
5°	2460.4	2313.2	2105.4	1958.2	1873.4	1823.2	1788.6	1771.3	1762.6	1752.2	1747.0
7.5°	2579.8	2373.8	2093.3	1944.4	1878.6	1847.4	1824.9	1814.5	1807.6	1797.2	1797.2
10°	2744.3	2463.8	2131.4	1992.9	1940.9	1909.8	1883.8	1866.5	1850.9	1835.3	1831.9
12.5°	2922.7	2581.6	2200.6	2058.7	2003.3	1965.2	1928.8	1902.8	1883.8	1864.8	1859.6
15°	3120.0	2702.8	2275.1	2122.7	2053.5	2001.5	1958.2	1918.4	1892.5	1864.8	1861.3
17.5°	3314.0	2825.7	2337.4	2166.0	2077.7	2013.7	1951.3	1899.4	1866.5	1835.3	1826.7
20°	3546.0	2948.6	2380.7	2178.1	2072.5	1987.7	1913.2	1847.4	1811.1	1774.7	1769.5
22.5°	3758.9	3062.9	2401.5	2160.8	2032.7	1932.3	1845.7	1774.7	1734.9	1698.5	1691.6
25°	3965.0	3163.3	2392.8	2119.3	1972.1	1856.1	1766.1	1695.1	1657.0	1618.9	1608.5
27.5°	4164.1	3230.9	2358.2	2055.2	1895.9	1771.3	1684.7	1620.6	1587.7	1554.8	1541.0
30°	4359.7	3293.2	2304.5	1972.1	1799.0	1683.0	1612.0	1566.9	1534.0	1499.4	1489.0
32.5°	4557.1	3338.2	2223.2	1875.1	1700.3	1605.0	1561.8	1528.9	1494.2	1459.6	1449.2
35°	4756.2	3357.2	2124.5	1764.3	1617.2	1554.8	1539.2	1501.2	1454.4	1412.8	1399.0
37.5°	4993.4	3374.6	2001.5	1655.2	1544.4	1530.6	1527.1	1470.0	1414.6	1357.4	1341.9
40°	5279.1	3397.1	1875.1	1556.6	1485.6	1521.9	1508.1	1430.2	1319.4	1263.9	1246.6
42.5°	5628.9	3438.6	1743.6	1466.5	1442.3	1489.0	1473.4	1333.2	1258.8	1227.6	1218.9
45°	6143.1	3591.0	1612.0	1395.5	1409.4	1442.3	1418.0	1276.1	1246.6	1225.9	1215.5
47.5°	7059.0	3824.7	1497.7	1341.9	1383.4	1400.7	1307.2	1260.5	1238.0	1210.3	1198.2
50°	8011.3	3926.9	1405.9	1309.0	1354.0	1362.6	1246.6	1239.7	1224.1	1194.7	1182.6
52.5°	8655.4	3913.0	1350.5	1296.8	1329.7	1296.8	1218.9	1217.2	1206.8	1172.2	1158.3
55°	9382.6	3937.3	1326.3	1300.3	1319.4	1186.0	1184.3	1189.5	1184.3	1146.2	1139.3
57.5°	10364.3	4011.7	1314.2	1312.4	1312.4	1132.4	1151.4	1158.3	1147.9	1130.6	1125.4
60°	11308.0	4016.9	1291.6	1326.3	1307.2	1099.5	1113.3	1120.2	1108.1	1104.7	1102.9
62.5°	11662.9	3767.6	1241.4	1315.9	1286.5	1063.1	1073.5	1077.0	1064.8	1073.5	1071.8
65°	11134.8	3237.8	1158.3	1265.7	1222.4	1030.2	1023.3	1031.9	1011.2	1033.7	1035.4
67.5°	9886.5	2572.9	1031.9	1170.4	1132.4	993.8	980.0	980.0	945.4	980.0	978.3
70°	7971.5	1818.0	846.7	1018.1	1033.7	950.6	943.6	903.8	848.4	900.3	895.1
72.5°	6042.7	1305.5	666.6	805.1	890.0	890.0	891.7	824.2	760.1	784.3	763.6
75°	3828.2	919.4	533.3	616.4	697.8	780.9	820.7	696.0	638.9	628.5	618.1
77.5°	1724.5	604.3	415.5	472.7	495.2	616.4	749.7	599.1	521.2	498.7	491.7
80°	722.0	375.7	296.1	334.2	304.7	517.7	661.4	465.8	382.6	351.5	329.0
82.5°	316.9	223.4	188.7	180.1	190.5	384.4	493.5	309.9	238.9	323.8	327.2
85°	133.3	117.7	97.0	88.3	77.9	147.2	232.0	121.2	148.9	84.8	69.3
87.5°	31.2	34.6	26.0	17.3	10.4	1.7	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)