

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: P637780

Luminaire Tested: GWS-SA4D-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637780
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-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24970.8 lumens
Efficiency: N/A
Efficacy: 154.0 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

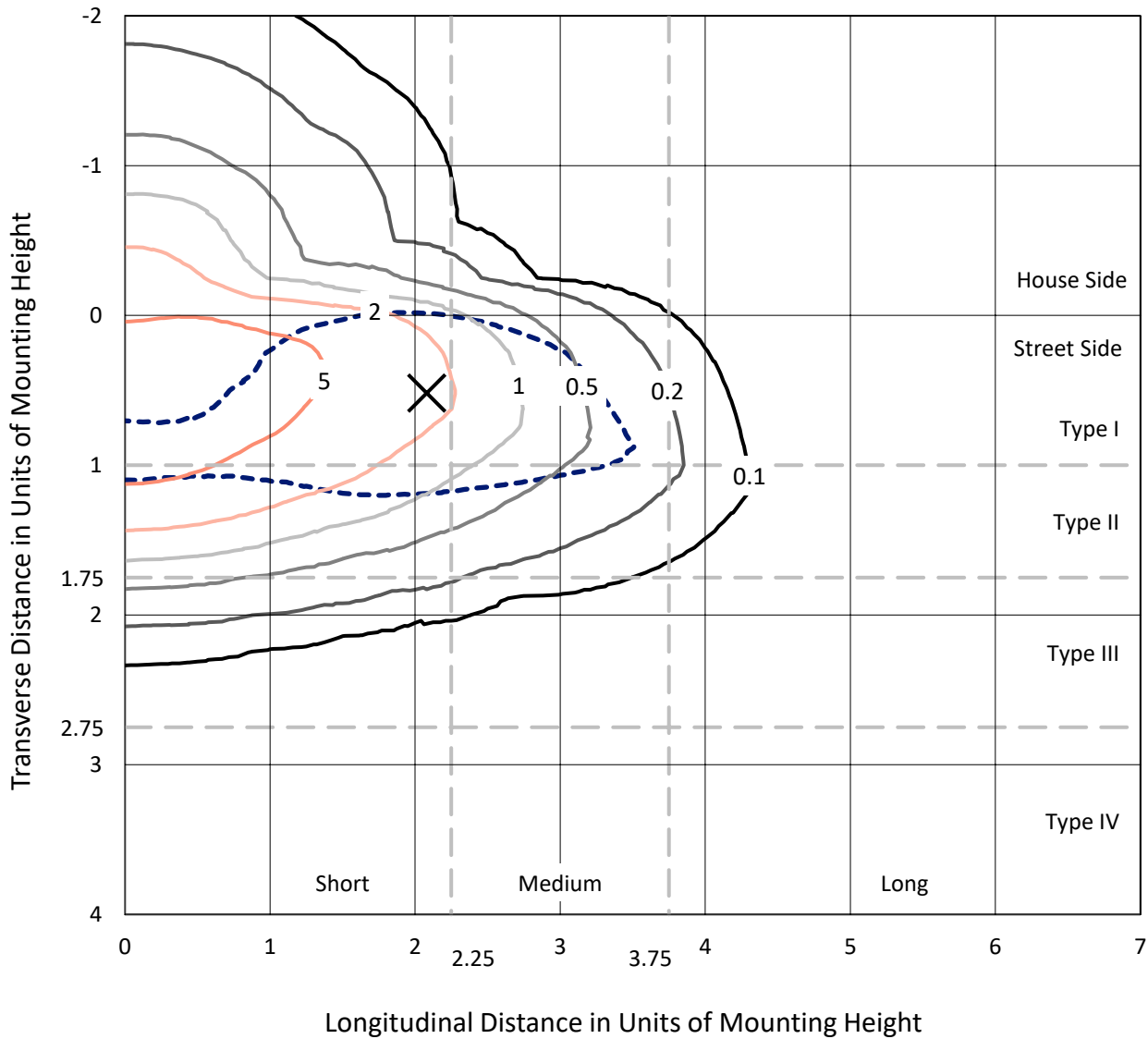


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Iso-Footcandle Lines of Horizontal Illumination

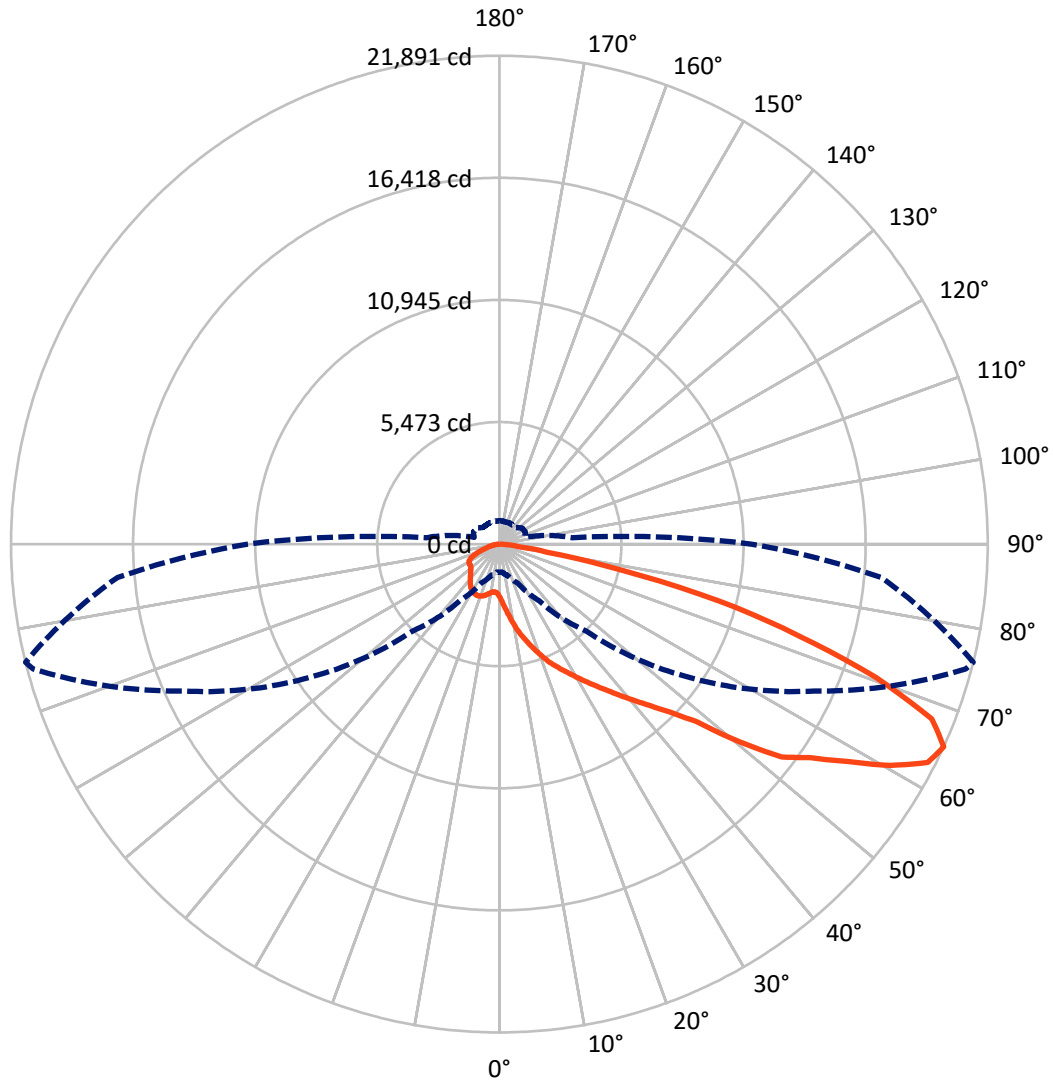
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	4173.9	0.0	4173.9
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	20796.9	0.0	20796.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	24970.8	0.0	24970.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	1.1
10°-20°	1070.0	4.3
20°-30°	2085.4	8.4
30°-40°	3487.6	14.0
40°-50°	4993.6	20.0
50°-60°	5911.8	23.7
60°-70°	4915.7	19.7
70°-80°	2011.6	8.1
80°-90°	214.2	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°	24970.8	100.0
0°-180°	24970.8	100.0

Coefficient of Utilization



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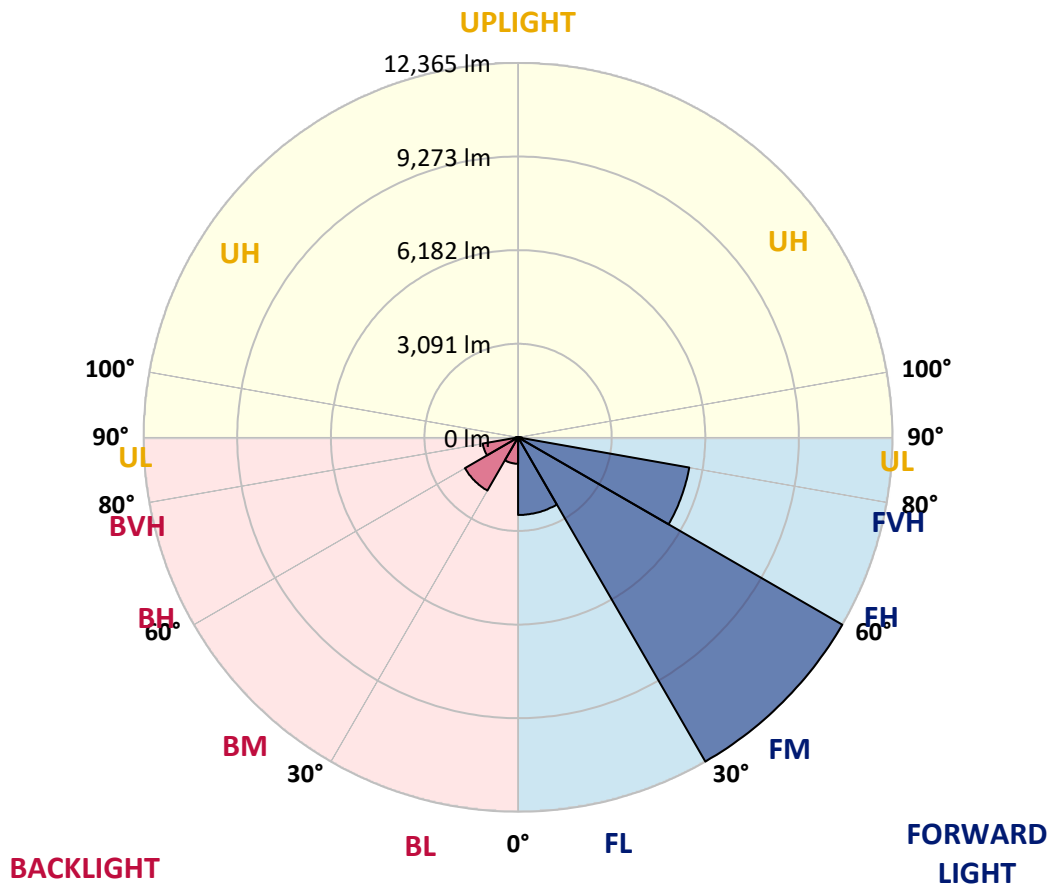
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2563.2	10.3			
FM (30°-60°)	12364.6	49.5			
FH (60°-80°)	5741.4	23.0			G3/7500
FVH (80°-90°)	127.7	0.5			G2/225
BL (0°-30°)	873.2	3.5	B2/1000		
BM (30°-60°)	2028.4	8.1	B2/2500		
BH (60°-80°)	1185.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	86.4	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°	2364.6	2364.6	2364.6	2364.6	2364.6	2364.6	2364.6	2364.6	2364.6	2364.6	2364.6
2.5°	3314.4	3326.6	3286.3	3272.2	3177.4	3049.3	2942.2	2780.7	2631.5	2608.7	2475.2
5°	4209.7	4157.0	4111.4	4081.5	3949.8	3804.1	3577.7	3274.0	2956.2	2917.6	2629.7
7.5°	4741.6	4732.8	4676.6	4659.1	4557.2	4411.5	4178.1	3800.6	3338.9	3275.7	2838.6
10°	5168.2	5162.9	5134.8	5150.6	5057.6	4915.4	4688.9	4299.2	3758.5	3695.3	3072.1
12.5°	5540.3	5549.1	5543.8	5601.8	5554.4	5443.8	5208.5	4780.2	4178.1	4109.6	3356.5
15°	5812.4	5819.4	5845.8	5972.2	5998.5	5975.7	5736.9	5252.4	4592.4	4494.0	3649.7
17.5°	5889.7	5903.7	5966.9	6170.5	6312.7	6407.5	6230.2	5733.4	4999.6	4892.5	3948.1
20°	5993.2	6009.0	6072.2	6284.6	6493.6	6709.5	6677.9	6221.4	5410.4	5322.6	4250.0
22.5°	6472.5	6460.2	6432.1	6533.9	6683.1	6951.7	7030.7	6690.2	5835.2	5751.0	4583.6
25°	7395.9	7373.0	7194.0	7100.9	7051.8	7215.1	7355.5	7116.7	6249.5	6123.1	4894.3
27.5°	8414.1	8401.8	8173.6	7952.4	7650.4	7580.2	7662.7	7488.9	6651.5	6523.4	5164.6
30°	9377.8	9341.0	9102.2	8824.8	8421.1	8119.1	7998.0	7854.1	7092.2	6958.8	5480.6
32.5°	10239.8	10192.4	9911.5	9604.3	9181.2	8824.8	8463.2	8242.0	7590.7	7436.2	5803.6
35°	10947.2	10899.8	10611.9	10285.4	9820.2	9556.9	9061.8	8663.3	8098.1	7941.8	6184.6
37.5°	11494.9	11451.0	11150.9	10829.6	10424.1	10215.2	9785.1	9137.3	8682.6	8519.4	6588.3
40°	11802.1	11770.5	11530.0	11275.5	10934.9	10754.1	10561.0	9735.9	9337.4	9174.2	7064.1
42.5°	11895.2	11874.1	11705.6	11573.9	11344.0	11207.0	11317.6	10439.9	10036.1	9893.9	7599.5
45°	11661.7	11661.7	11612.6	11679.3	11689.8	11688.0	12076.0	11235.1	10894.6	10738.3	8354.4
47.5°	11064.8	11103.5	11175.4	11503.7	11849.5	12139.2	12962.5	12295.4	11998.8	11870.6	9423.5
50°	9972.9	10078.3	10324.0	10964.8	11700.3	12437.6	13801.6	13863.1	14145.7	13919.3	10996.4
52.5°	8373.7	8357.9	8984.6	9897.4	11019.2	12449.9	14263.3	15246.4	16006.5	15850.3	12165.5
55°	6655.1	6628.7	7213.3	8472.0	9974.7	11979.5	14540.7	15880.1	17038.8	16898.3	13217.1
57.5°	5096.2	5062.8	5582.5	6718.3	8500.1	10980.6	14488.0	16635.0	18459.0	18387.0	14646.0
60°	3507.5	3467.1	3953.4	4947.0	6755.1	9453.3	13905.2	17023.0	20121.4	20146.0	16175.1
62.5°	2106.6	2083.8	2436.6	3207.3	4859.2	7560.9	12541.2	16787.7	21445.0	21555.6	17158.1
65°	1271.0	1255.2	1462.3	1913.5	3082.6	5517.5	10438.1	15585.2	21636.4	21890.9	17181.0
67.5°	925.1	926.9	986.6	1165.6	1797.6	3563.6	7833.0	13429.5	20639.3	20902.6	16097.8
70°	804.0	807.5	839.1	879.5	1086.6	2039.9	5092.7	10601.4	17691.8	17895.4	13501.5
72.5°	714.5	714.5	735.5	756.6	849.7	1242.9	2728.0	7409.9	13963.2	14017.6	10304.7
75°	628.5	623.2	633.7	644.3	737.3	869.0	1327.1	5162.9	10313.5	10187.1	6660.3
77.5°	500.3	495.0	496.8	507.3	591.6	621.4	672.4	3224.8	5812.4	5485.9	2942.2
80°	356.4	352.9	372.2	398.5	437.1	380.9	421.3	1560.6	2305.0	2145.2	1141.1
82.5°	212.4	219.4	249.3	270.3	301.9	238.7	272.1	521.4	816.3	795.2	463.4
85°	29.8	31.6	89.5	103.6	129.9	93.0	144.0	235.2	326.5	349.3	163.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.3	42.1	93.0	94.8	40.4
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°	2364.6	2364.6	2364.6	2364.6	2364.6	2364.6	2364.6	2364.6	2364.6	2364.6	2364.6
2.5°	2406.8	2324.3	2206.6	2108.3	2025.8	1959.1	1902.9	1860.8	1848.5	1831.0	1831.0
5°	2494.5	2345.3	2134.7	1985.5	1899.4	1848.5	1813.4	1795.9	1787.1	1776.6	1771.3
7.5°	2615.7	2406.8	2122.4	1971.4	1904.7	1873.1	1850.3	1839.8	1832.7	1822.2	1822.2
10°	2782.4	2498.1	2161.0	2020.6	1967.9	1936.3	1910.0	1892.4	1876.6	1860.8	1857.3
12.5°	2963.3	2617.4	2231.2	2087.3	2031.1	1992.5	1955.6	1929.3	1910.0	1890.7	1885.4
15°	3163.4	2740.3	2306.7	2152.2	2082.0	2029.3	1985.5	1945.1	1918.7	1890.7	1887.1
17.5°	3360.0	2865.0	2369.9	2196.1	2106.6	2041.6	1978.4	1925.8	1892.4	1860.8	1852.0
20°	3595.2	2989.6	2413.8	2208.4	2101.3	2015.3	1939.8	1873.1	1836.2	1799.4	1794.1
22.5°	3811.2	3105.5	2434.9	2190.8	2060.9	1959.1	1871.4	1799.4	1759.0	1722.1	1715.1
25°	4020.1	3207.3	2426.1	2148.7	1999.5	1881.9	1790.6	1718.6	1680.0	1641.4	1630.8
27.5°	4221.9	3275.7	2391.0	2083.8	1922.3	1795.9	1708.1	1643.1	1609.8	1576.4	1562.4
30°	4420.3	3338.9	2336.6	1999.5	1824.0	1706.3	1634.4	1588.7	1555.4	1520.3	1509.7
32.5°	4620.4	3384.6	2254.0	1901.2	1723.9	1627.3	1583.5	1550.1	1515.0	1479.9	1469.3
35°	4822.3	3403.9	2154.0	1788.8	1639.6	1576.4	1560.6	1522.0	1474.6	1432.5	1418.4
37.5°	5062.8	3421.4	2029.3	1678.2	1565.9	1551.9	1548.3	1490.4	1434.2	1376.3	1360.5
40°	5352.5	3444.3	1901.2	1578.2	1506.2	1543.1	1529.0	1450.0	1337.7	1281.5	1264.0
42.5°	5707.1	3486.4	1767.8	1486.9	1462.3	1509.7	1493.9	1351.7	1276.2	1244.6	1235.9
45°	6228.5	3640.9	1634.4	1414.9	1429.0	1462.3	1437.7	1293.8	1264.0	1242.9	1232.4
47.5°	7157.1	3877.9	1518.5	1360.5	1402.6	1420.2	1325.4	1278.0	1255.2	1227.1	1214.8
50°	8122.6	3981.4	1425.5	1327.1	1372.8	1381.6	1264.0	1256.9	1241.1	1211.3	1199.0
52.5°	8775.7	3967.4	1369.3	1314.9	1348.2	1314.9	1235.9	1234.1	1223.6	1188.5	1174.4
55°	9513.0	3992.0	1344.7	1318.4	1337.7	1202.5	1200.8	1206.0	1200.8	1162.1	1155.1
57.5°	10508.4	4067.5	1332.4	1330.7	1330.7	1148.1	1167.4	1174.4	1163.9	1146.3	1141.1
60°	11465.1	4072.7	1309.6	1344.7	1325.4	1114.7	1128.8	1135.8	1123.5	1120.0	1118.2
62.5°	11825.0	3819.9	1258.7	1334.2	1304.3	1077.9	1088.4	1091.9	1079.6	1088.4	1086.6
65°	11289.5	3282.8	1174.4	1283.3	1239.4	1044.5	1037.5	1046.3	1025.2	1048.0	1049.8
67.5°	10023.8	2608.7	1046.3	1186.7	1148.1	1007.7	993.6	993.6	958.5	993.6	991.9
70°	8082.3	1843.3	858.4	1032.2	1048.0	963.8	956.7	916.4	860.2	912.9	907.6
72.5°	6126.7	1323.6	675.9	816.3	902.3	902.3	904.1	835.6	770.7	795.2	774.2
75°	3881.4	932.2	540.7	625.0	707.5	791.7	832.1	705.7	647.8	637.2	626.7
77.5°	1748.5	612.7	421.3	479.2	502.1	625.0	760.1	607.4	528.4	505.6	498.6
80°	732.0	380.9	300.2	338.8	309.0	524.9	670.6	472.2	388.0	356.4	333.5
82.5°	321.3	226.5	191.3	182.6	193.1	389.7	500.3	314.2	242.3	328.3	331.8
85°	135.2	119.4	98.3	89.5	79.0	149.2	235.2	122.9	151.0	86.0	70.2
87.5°	31.6	35.1	26.3	17.6	10.5	1.8	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)