

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: P638271

Luminaire Tested: GWS-SA4E-740-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-740-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30362.4 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

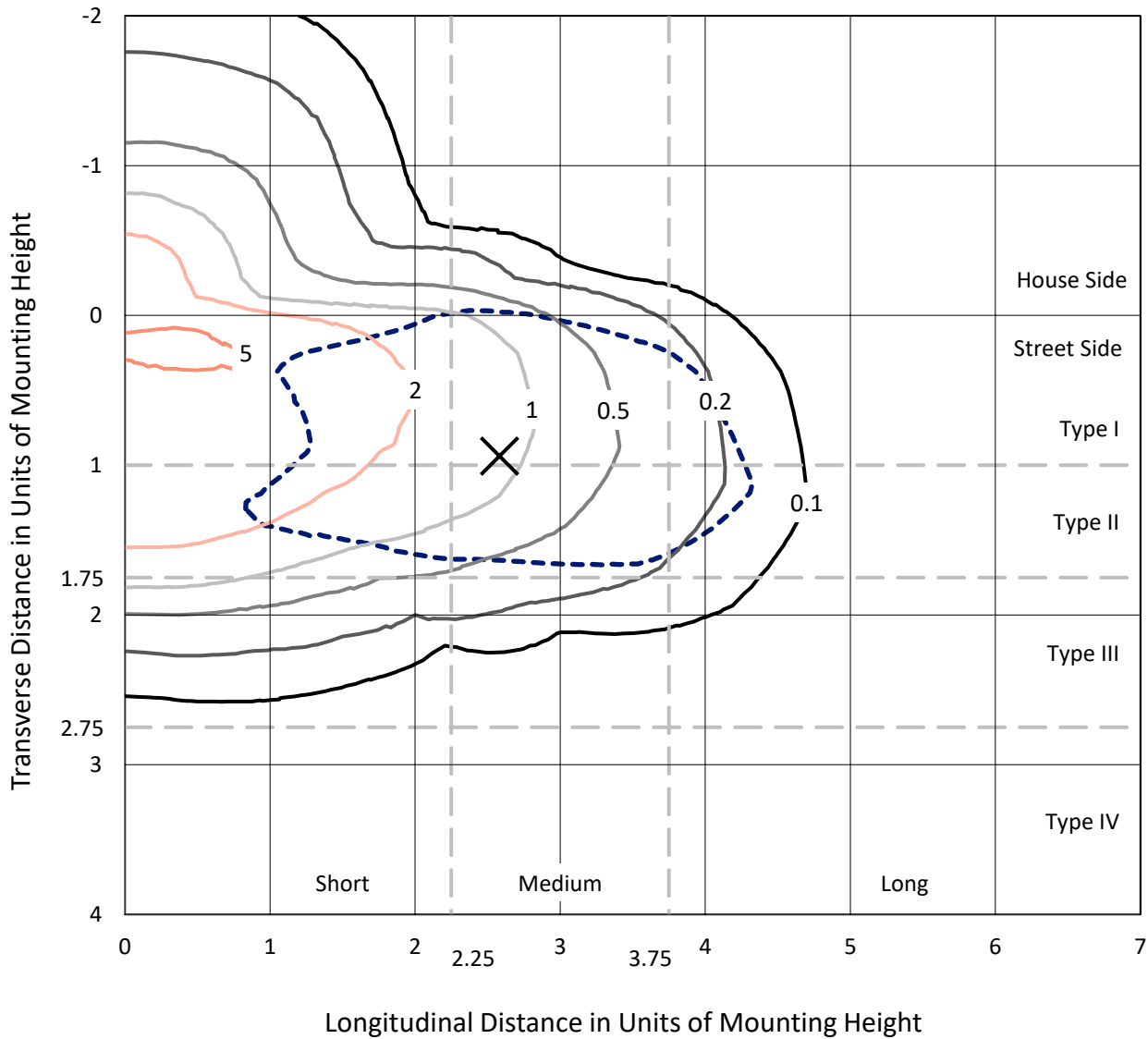
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638271
 CATALOG NUMBER: GWS-SA4E-740-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination

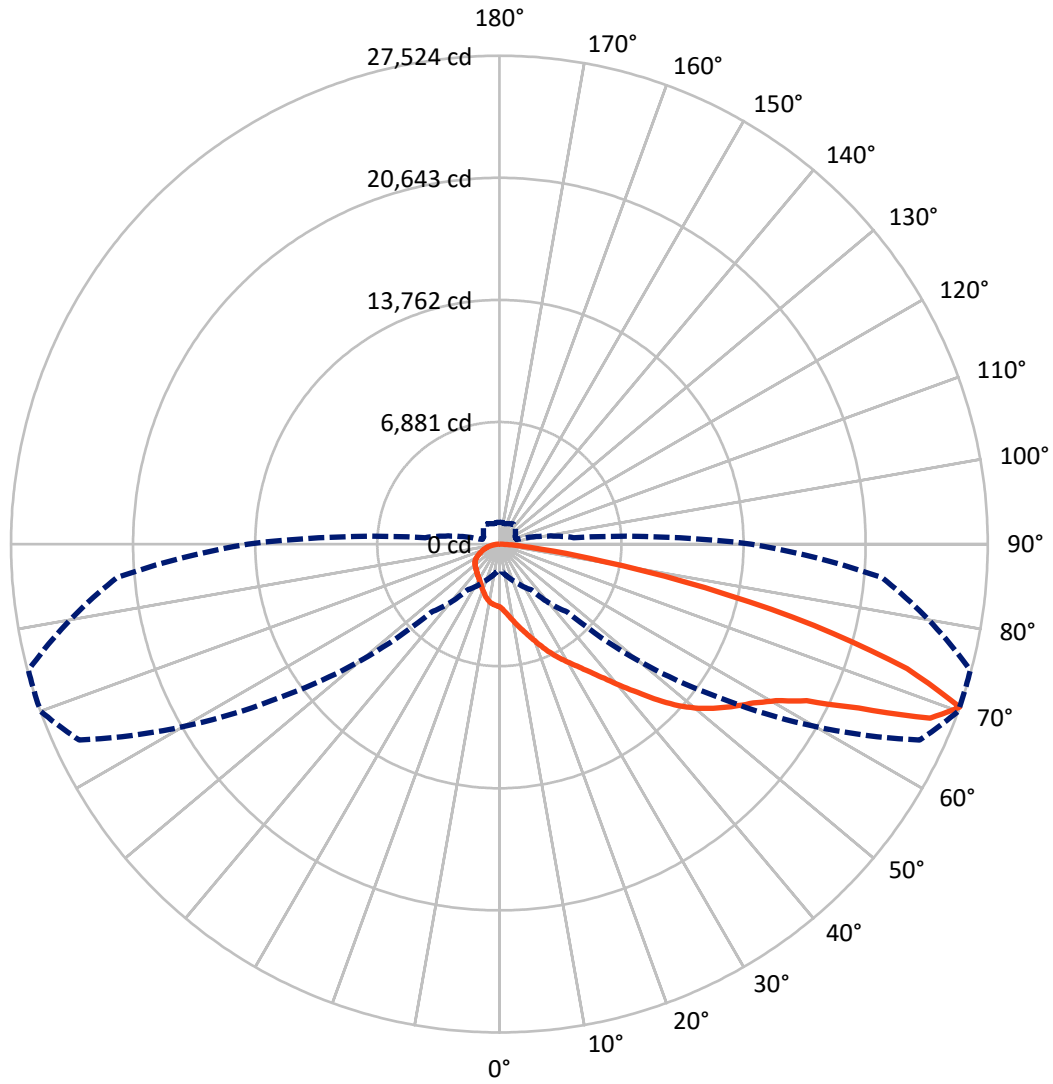
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P638271
CATALOG NUMBER: GWS-SA4E-740-U-T2-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638271

CATALOG NUMBER: GWS-SA4E-740-U-T2-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5441.0	0.0	5441.0
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	24921.4	0.0	24921.4
	% Fixture	82.1	0.0	82.1
Total	Lumens	30362.4	0.0	30362.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.9	1.2
10°-20°	1170.7	3.9
20°-30°	2074.0	6.8
30°-40°	3121.4	10.3
40°-50°	4722.3	15.6
50°-60°	6764.9	22.3
60°-70°	7477.9	24.6
70°-80°	4220.0	13.9
80°-90°	451.4	1.5
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°	30362.4	100.0
0°-180°	30362.4	100.0

Coefficient of Utilization



REPORT NUMBER: P638271

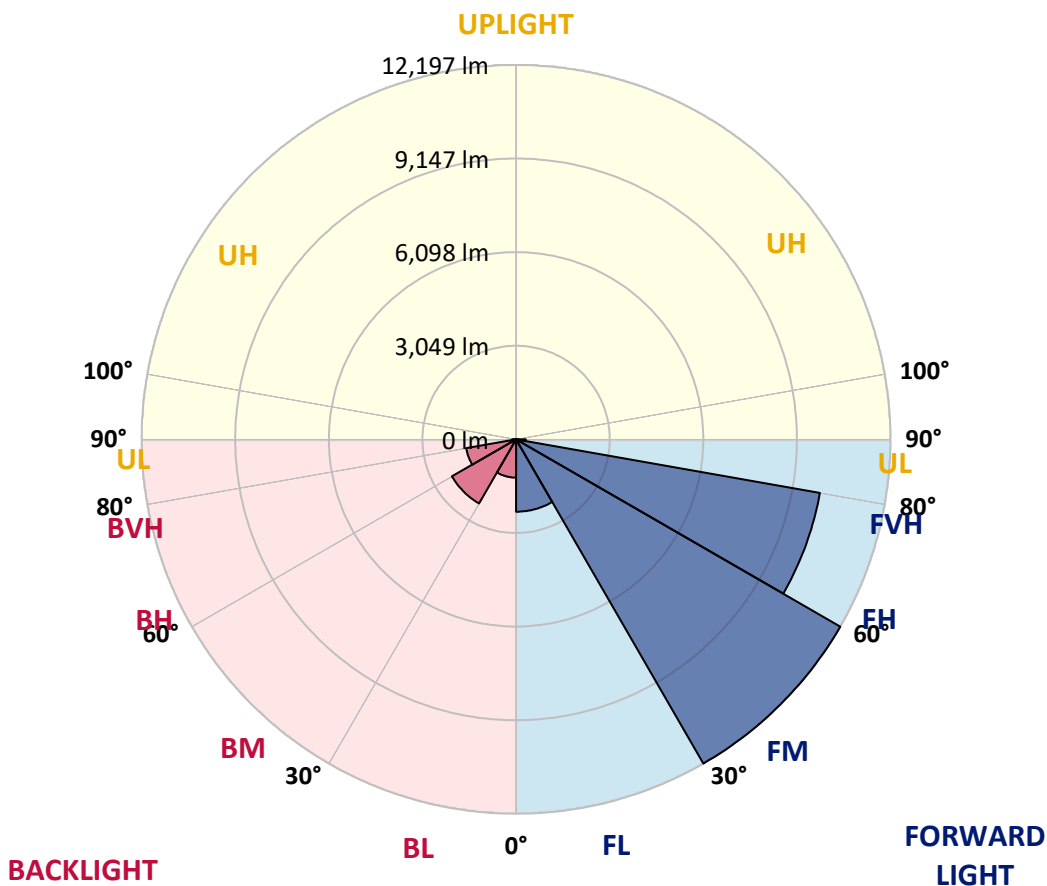
CATALOG NUMBER: GWS-SA4E-740-U-T2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2357.0	7.8			
FM (30°-60°)	12196.6	40.2			
FH (60°-80°)	10048.7	33.1			G4/12000
FVH (80°-90°)	319.1	1.1			G3/500
BL (0°-30°)	1247.6	4.1	B3/2500		
BM (30°-60°)	2412.0	7.9	B2/2500		
BH (60°-80°)	1649.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	132.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





REPORT NUMBER: P638271
 CATALOG NUMBER: GWS-SA4E-740-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3540.9	3540.9	3540.9	3540.9	3540.9	3540.9	3540.9	3540.9	3540.9	3540.9	3540.9
2.5°	3922.6	3916.0	3920.4	3916.0	3891.9	3832.7	3784.4	3723.0	3681.3	3657.2	3600.1
5°	4383.3	4376.7	4361.4	4339.4	4295.6	4214.4	4093.7	3959.9	3878.7	3817.3	3696.6
7.5°	4714.6	4714.6	4712.4	4686.1	4655.4	4569.8	4427.2	4251.7	4133.2	4027.9	3830.5
10°	4883.5	4894.5	4909.9	4947.1	4940.6	4894.5	4760.7	4572.0	4422.8	4300.0	4006.0
12.5°	4975.7	4982.2	5008.6	5085.4	5164.3	5175.3	5096.3	4898.9	4736.5	4572.0	4201.2
15°	5094.1	5096.3	5131.4	5223.6	5339.8	5456.1	5436.4	5238.9	5072.2	4890.1	4418.4
17.5°	5186.3	5201.6	5265.3	5372.8	5517.5	5677.7	5774.2	5651.4	5445.2	5236.7	4655.4
20°	5219.2	5230.2	5313.5	5478.1	5675.5	5901.5	6116.5	6083.6	5875.1	5629.4	4923.0
22.5°	5337.7	5337.7	5399.1	5537.3	5769.8	6098.9	6447.7	6533.3	6349.0	6061.6	5210.4
25°	5598.7	5589.9	5618.5	5675.5	5851.0	6256.9	6774.6	7031.3	6825.1	6502.6	5497.8
27.5°	5956.3	5951.9	5949.7	5958.5	6017.7	6395.1	7051.1	7496.4	7290.2	6926.0	5754.5
30°	6344.6	6331.5	6360.0	6333.7	6320.5	6559.6	7285.8	7913.2	7753.1	7345.0	5967.3
32.5°	6873.4	6849.2	6842.6	6757.1	6704.4	6816.3	7474.5	8387.1	8259.9	7797.0	6206.4
35°	7571.0	7549.1	7437.2	7301.2	7145.4	7198.0	7709.2	8850.0	8858.8	8363.0	6520.1
37.5°	8275.2	8279.6	8191.9	7871.6	7711.4	7680.7	8066.8	9413.8	9602.5	9038.7	6926.0
40°	8861.0	8887.3	8887.3	8549.5	8310.3	8281.8	8569.2	10083.0	10458.1	9868.0	7439.4
42.5°	9306.3	9330.5	9407.3	9163.7	8911.4	9010.2	9179.1	10754.3	11427.8	10892.5	8088.7
45°	9795.6	9815.3	9857.0	9716.6	9569.6	9832.9	9870.2	11557.2	12537.9	12042.1	8843.4
47.5°	10445.0	10427.4	10431.8	10328.7	10214.6	10640.2	10631.4	12232.9	13610.7	13301.4	9661.7
50°	11252.3	11285.2	11254.5	11050.5	10916.6	11304.9	11355.4	12981.0	14554.0	14547.5	10486.6
52.5°	12028.9	12042.1	12204.4	12213.2	11939.0	11857.8	11989.4	13735.7	15350.4	15688.3	11278.6
55°	12068.4	12118.9	12605.9	12956.9	13400.1	12748.5	12630.0	14455.3	16120.5	16804.9	12101.3
57.5°	11228.2	11309.3	12136.4	12893.3	14126.2	14277.6	13727.0	15385.5	16890.5	17904.1	13053.4
60°	9433.6	9602.5	10725.8	11884.1	13799.4	15376.7	15971.3	16649.2	17901.9	19027.3	14209.6
62.5°	6024.3	6090.1	7665.3	9604.7	12327.3	15269.2	18415.2	18875.9	19442.0	20490.6	15991.0
65°	3016.6	3227.2	4150.8	5732.5	8889.5	13454.9	19650.4	22954.3	22261.1	22996.0	18878.1
67.5°	2046.9	2114.9	2582.2	3444.4	5212.6	9532.3	18884.7	26389.9	26185.9	26306.5	21956.1
70°	1509.4	1553.3	1921.8	2439.6	3152.6	5412.2	15034.5	26131.0	27524.1	27480.2	21633.6
72.5°	1101.3	1123.3	1401.9	1862.6	2336.5	2799.4	9181.3	21109.3	24027.1	25293.0	18919.8
75°	800.8	827.1	974.1	1393.1	1816.5	1746.3	4532.5	15247.3	18323.1	20758.3	15414.0
77.5°	596.7	629.6	697.6	873.2	1272.4	1250.5	1959.1	9900.9	11851.2	13558.0	9363.4
80°	430.0	436.6	476.1	559.4	807.3	732.7	932.4	5162.1	5919.0	6485.0	3670.3
82.5°	261.1	267.7	318.1	344.4	500.2	460.7	484.8	1671.7	2395.7	2542.7	1371.2
85°	76.8	81.2	144.8	158.0	208.4	197.4	195.3	680.1	811.7	1037.7	539.7
87.5°	0.0	0.0	0.0	0.0	2.2	13.2	24.1	120.7	182.1	252.3	131.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638271
 CATALOG NUMBER: GWS-SA4E-740-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3540.9	3540.9	3540.9	3540.9	3540.9	3540.9	3540.9	3540.9	3540.9	3540.9	3540.9
2.5°	3578.2	3527.7	3501.4	3455.3	3422.4	3389.5	3356.6	3325.9	3312.7	3293.0	3297.4
5°	3641.8	3562.8	3483.8	3393.9	3317.1	3253.5	3196.4	3146.0	3124.1	3104.3	3113.1
7.5°	3738.3	3619.9	3468.5	3303.9	3183.3	3095.5	3036.3	3001.2	2990.2	2974.9	2974.9
10°	3861.2	3683.5	3418.0	3183.3	3038.5	2968.3	2942.0	2939.8	2950.7	2952.9	2948.5
12.5°	3997.2	3744.9	3343.4	3040.7	2917.8	2895.9	2915.6	2952.9	2990.2	3010.0	3005.6
15°	4137.6	3784.4	3216.2	2904.7	2830.1	2858.6	2922.2	2996.8	3069.2	3106.5	3104.3
17.5°	4269.2	3793.2	3051.7	2773.0	2753.3	2825.7	2935.4	3051.7	3150.4	3203.0	3205.2
20°	4416.2	3777.8	2882.7	2654.6	2676.5	2795.0	2939.8	3080.2	3196.4	3249.1	3262.3
22.5°	4550.1	3725.2	2718.2	2542.7	2610.7	2757.7	2904.7	3036.3	3139.4	3189.9	3207.4
25°	4670.7	3624.3	2538.3	2448.3	2560.2	2705.0	2816.9	2909.1	2981.5	3012.2	3036.3
27.5°	4736.5	3472.9	2402.3	2373.8	2512.0	2630.4	2691.9	2720.4	2744.5	2735.7	2753.3
30°	4749.7	3284.2	2283.8	2314.5	2439.6	2527.3	2540.5	2512.0	2470.3	2402.3	2417.6
32.5°	4736.5	3067.0	2185.1	2250.9	2358.4	2411.0	2393.5	2318.9	2218.0	2112.7	2119.3
35°	4740.9	2847.6	2103.9	2180.7	2264.1	2292.6	2248.7	2145.6	2038.1	1941.6	1937.2
37.5°	4789.2	2663.3	2035.9	2112.7	2171.9	2176.3	2128.0	2020.5	1965.7	1893.3	1884.5
40°	4923.0	2527.3	1974.5	2044.7	2082.0	2079.8	2024.9	1948.1	1985.4	1961.3	1954.7
42.5°	5142.4	2444.0	1924.0	1972.3	1998.6	2003.0	1959.1	1910.8	1992.0	1961.3	1950.3
45°	5495.6	2439.6	1888.9	1899.9	1941.6	1972.3	1941.6	1886.7	1917.4	1768.2	1739.7
47.5°	5914.6	2514.2	1862.6	1836.3	1908.7	1963.5	1915.2	1827.5	1763.9	1627.8	1608.1
50°	6419.2	2665.5	1838.5	1768.2	1860.4	1930.6	1882.3	1761.7	1665.1	1592.7	1581.8
52.5°	7018.1	2865.2	1807.7	1691.5	1788.0	1913.0	1882.3	1755.1	1627.8	1562.0	1551.1
55°	7645.6	3095.5	1772.6	1599.3	1706.8	1917.4	1897.7	1709.0	1599.3	1564.2	1555.4
57.5°	8424.4	3372.0	1709.0	1491.8	1634.4	1877.9	1836.3	1682.7	1579.6	1551.1	1542.3
60°	9435.8	3782.2	1588.4	1382.1	1551.1	1807.7	1781.4	1638.8	1526.9	1502.8	1496.2
62.5°	11037.3	4477.7	1441.4	1276.8	1452.3	1660.7	1700.2	1555.4	1461.1	1458.9	1456.7
65°	13648.0	5313.5	1268.0	1182.5	1349.2	1540.1	1592.7	1469.9	1393.1	1417.2	1415.0
67.5°	15477.7	5385.9	1125.4	1083.8	1228.6	1408.5	1485.2	1382.1	1298.8	1344.8	1342.6
70°	14176.7	4201.2	1002.6	980.7	1099.1	1265.9	1369.0	1272.4	1189.1	1232.9	1224.2
72.5°	11956.5	3220.6	886.3	873.2	967.5	1116.7	1219.8	1162.7	1075.0	1075.0	1055.2
75°	9609.1	2656.8	763.5	756.9	820.5	965.3	1081.6	985.0	903.9	899.5	886.3
77.5°	5511.0	1741.9	640.6	636.2	656.0	807.3	840.2	820.5	759.1	730.6	721.8
80°	2196.1	906.1	504.6	476.1	495.8	592.3	662.5	629.6	577.0	541.9	522.1
82.5°	851.2	454.1	355.4	311.5	340.0	427.8	480.5	469.5	434.4	355.4	333.5
85°	346.6	221.6	212.8	179.9	197.4	230.4	276.4	239.1	197.4	140.4	133.8
87.5°	92.1	81.2	79.0	48.3	37.3	11.0	2.2	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)