

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: P637391

Luminaire Tested: GWS-SA4C-760-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637391
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-SA4C-760-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19430.6 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

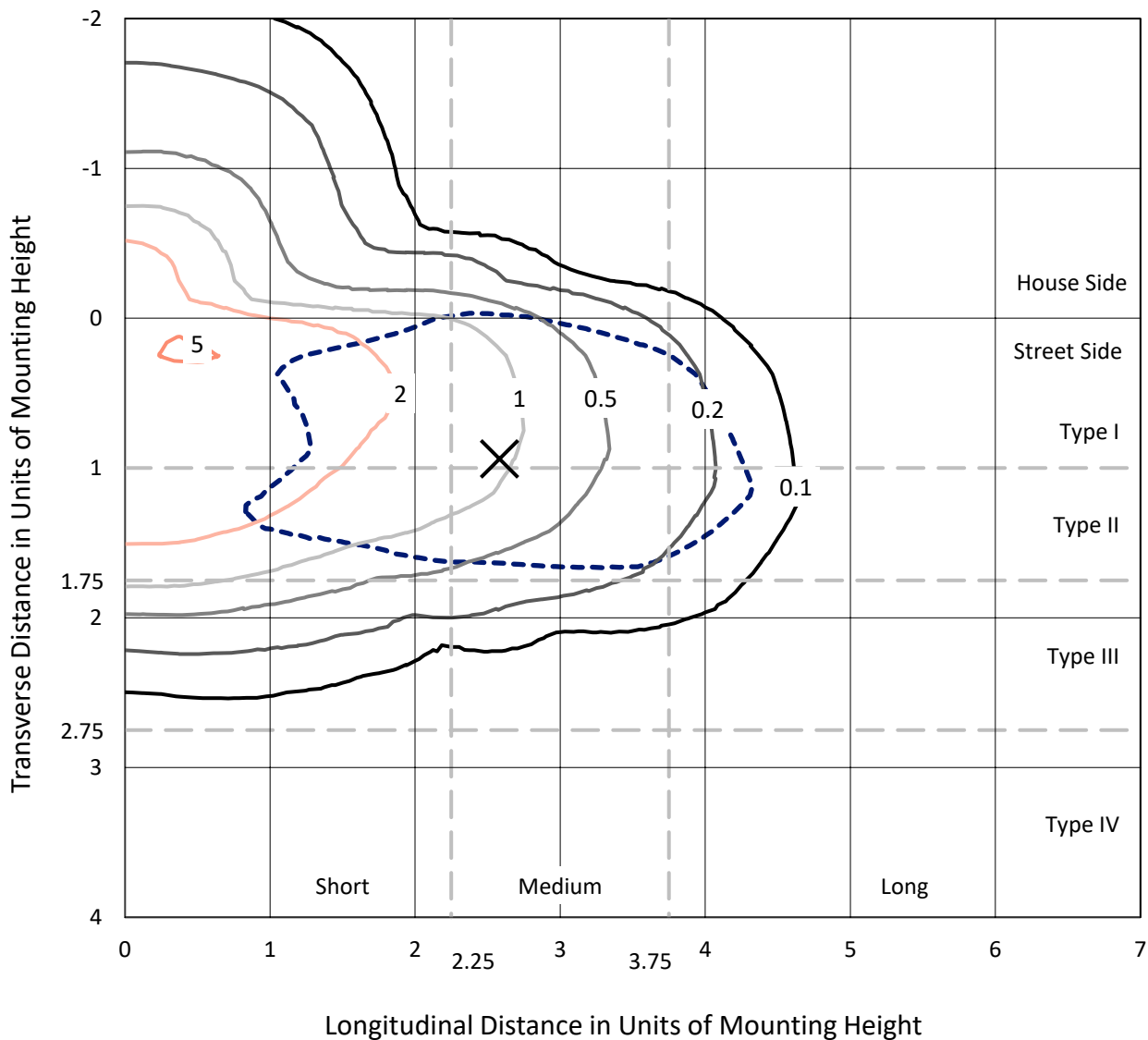
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

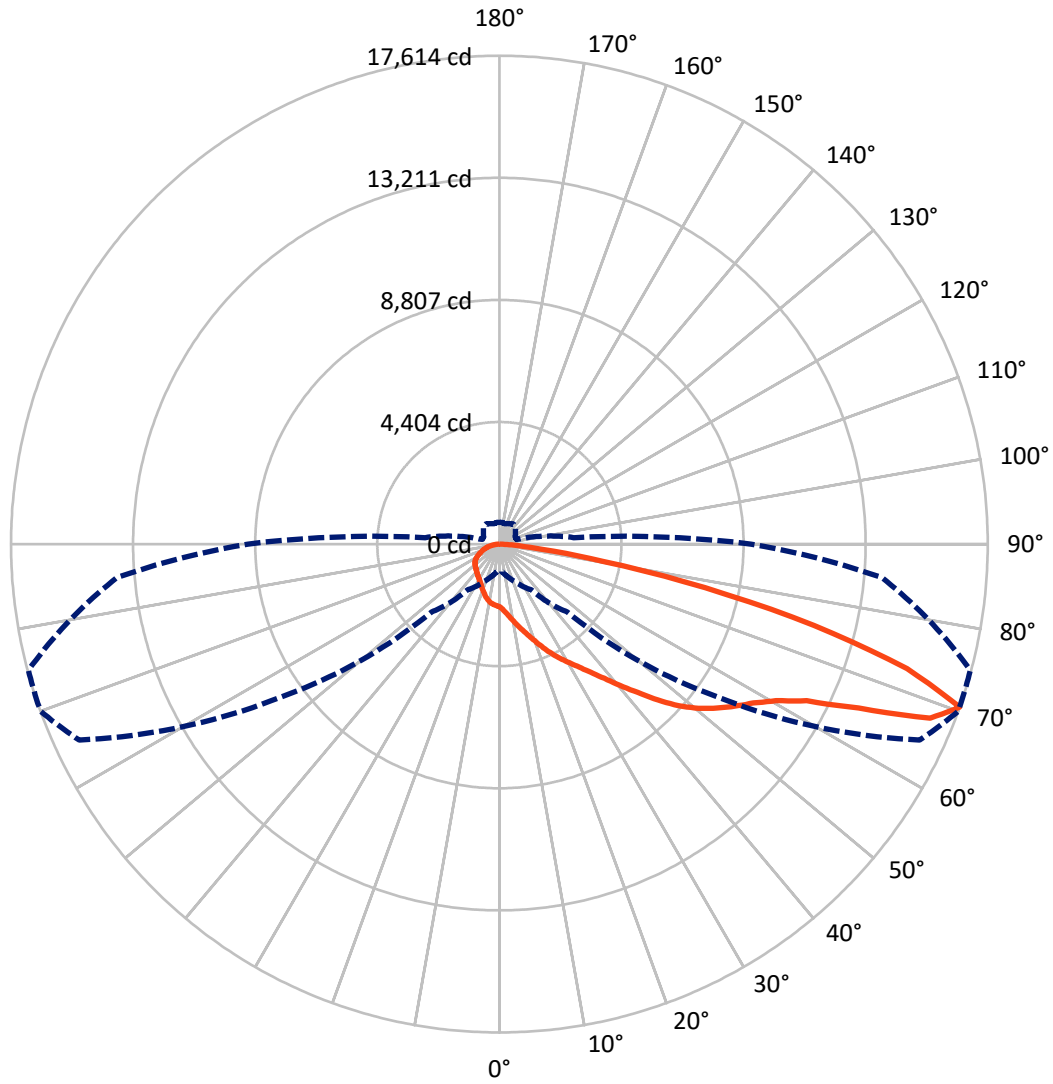
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3482.0	0.0	3482.0
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	15948.6	0.0	15948.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	19430.6	0.0	19430.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	1.2
10°-20°	749.2	3.9
20°-30°	1327.3	6.8
30°-40°	1997.6	10.3
40°-50°	3022.0	15.6
50°-60°	4329.3	22.3
60°-70°	4785.5	24.6
70°-80°	2700.6	13.9
80°-90°	288.9	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°	19430.6	100.0
0°-180°	19430.6	100.0

Coefficient of Utilization



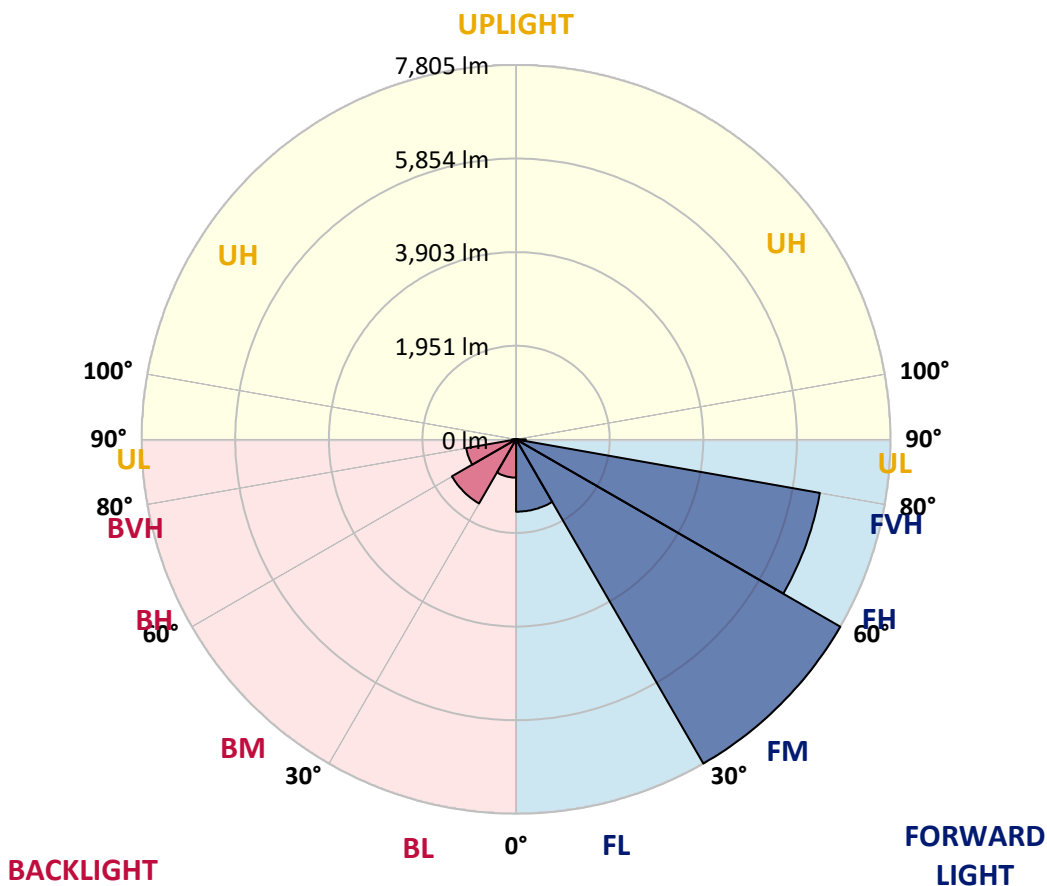
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1508.4	7.8			
FM (30°-60°)	7805.3	40.2			
FH (60°-80°)	6430.7	33.1			G3/7500
FVH (80°-90°)	204.2	1.1			G2/225
BL (0°-30°)	798.4	4.1	B2/1000		
BM (30°-60°)	1543.6	7.9	B2/2500		
BH (60°-80°)	1055.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	84.7	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0
2.5°	2510.3	2506.1	2508.9	2506.1	2490.6	2452.7	2421.9	2382.5	2355.9	2340.4	2303.9
5°	2805.1	2800.9	2791.1	2777.1	2749.0	2697.0	2619.8	2534.2	2482.2	2442.9	2365.7
7.5°	3017.1	3017.1	3015.7	2998.9	2979.2	2924.5	2833.2	2720.9	2645.1	2577.7	2451.3
10°	3125.2	3132.3	3142.1	3166.0	3161.7	3132.3	3046.6	2925.9	2830.4	2751.8	2563.7
12.5°	3184.2	3188.4	3205.3	3254.4	3304.9	3312.0	3261.4	3135.1	3031.2	2925.9	2688.6
15°	3260.0	3261.4	3283.9	3342.9	3417.3	3491.7	3479.0	3352.7	3246.0	3129.5	2827.6
17.5°	3319.0	3328.8	3369.5	3438.3	3531.0	3633.5	3695.3	3616.6	3484.7	3351.3	2979.2
20°	3340.0	3347.1	3400.4	3505.7	3632.1	3776.7	3914.3	3893.2	3759.8	3602.6	3150.5
22.5°	3415.9	3415.9	3455.2	3543.6	3692.4	3903.0	4126.3	4181.0	4063.1	3879.2	3334.4
25°	3582.9	3577.3	3595.6	3632.1	3744.4	4004.1	4335.5	4499.7	4367.8	4161.4	3518.4
27.5°	3811.8	3809.0	3807.6	3813.2	3851.1	4092.6	4512.4	4797.4	4665.4	4432.3	3682.6
30°	4060.3	4051.9	4070.1	4053.3	4044.8	4197.9	4662.6	5064.1	4961.6	4700.5	3818.8
32.5°	4398.6	4383.2	4379.0	4324.2	4290.5	4362.1	4783.3	5367.4	5286.0	4989.7	3971.8
35°	4845.1	4831.1	4759.5	4672.4	4572.7	4606.4	4933.6	5663.6	5669.2	5351.9	4172.6
37.5°	5295.8	5298.6	5242.4	5037.5	4935.0	4915.3	5162.4	6024.4	6145.2	5784.4	4432.3
40°	5670.6	5687.5	5687.5	5471.3	5318.2	5300.0	5483.9	6452.7	6692.7	6315.1	4760.9
42.5°	5955.6	5971.1	6020.2	5864.4	5702.9	5766.1	5874.2	6882.3	7313.3	6970.7	5176.4
45°	6268.7	6281.4	6308.0	6218.2	6124.1	6292.6	6316.5	7396.1	8023.7	7706.4	5659.4
47.5°	6684.3	6673.1	6675.9	6609.9	6536.9	6809.3	6803.6	7828.5	8710.2	8512.3	6183.1
50°	7201.0	7222.0	7202.4	7071.8	6986.2	7234.7	7267.0	8307.3	9313.9	9309.7	6711.0
52.5°	7698.0	7706.4	7810.3	7815.9	7640.4	7588.5	7672.7	8790.3	9823.6	10039.8	7217.8
55°	7723.2	7755.5	8067.2	8291.9	8575.5	8158.5	8082.7	9250.8	10316.4	10754.4	7744.3
57.5°	7185.5	7237.5	7766.8	8251.1	9040.2	9137.0	8784.7	9846.1	10809.2	11457.8	8353.6
60°	6037.1	6145.2	6864.0	7605.3	8831.0	9840.4	10220.9	10654.7	11456.4	12176.6	9093.5
62.5°	3855.3	3897.4	4905.5	6146.6	7888.9	9771.6	11784.9	12079.8	12442.0	13113.1	10233.5
65°	1930.5	2065.2	2656.3	3668.6	5688.9	8610.6	12575.4	14689.8	14246.1	14716.4	12081.2
67.5°	1309.9	1353.4	1652.5	2204.2	3335.8	6100.3	12085.4	16888.4	16757.8	16835.0	14050.9
70°	965.9	994.0	1229.9	1561.2	2017.5	3463.6	9621.4	16722.7	17614.2	17586.1	13844.6
72.5°	704.8	718.8	897.1	1192.0	1495.2	1791.5	5875.6	13509.0	15376.3	16186.4	12107.9
75°	512.4	529.3	623.4	891.5	1162.5	1117.6	2900.6	9757.6	11726.0	13284.4	9864.3
77.5°	381.9	402.9	446.5	558.8	814.3	800.3	1253.7	6336.1	7584.3	8676.5	5992.2
80°	275.2	279.4	304.7	358.0	516.7	468.9	596.7	3303.5	3787.9	4150.1	2348.8
82.5°	167.1	171.3	203.6	220.4	320.1	294.8	310.3	1069.8	1533.1	1627.2	877.5
85°	49.1	51.9	92.7	101.1	133.4	126.4	125.0	435.2	519.5	664.1	345.4
87.5°	0.0	0.0	0.0	0.0	1.4	8.4	15.4	77.2	116.5	161.5	84.2
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°	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0
2.5°	2289.9	2257.6	2240.7	2211.3	2190.2	2169.1	2148.1	2128.4	2120.0	2107.4	2110.2
5°	2330.6	2280.1	2229.5	2171.9	2122.8	2082.1	2045.6	2013.3	1999.3	1986.6	1992.2
7.5°	2392.4	2316.6	2219.7	2114.4	2037.2	1981.0	1943.1	1920.6	1913.6	1903.8	1903.8
10°	2471.0	2357.3	2187.4	2037.2	1944.5	1899.6	1882.7	1881.3	1888.3	1889.7	1886.9
12.5°	2558.0	2396.6	2139.7	1945.9	1867.3	1853.2	1865.9	1889.7	1913.6	1926.2	1923.4
15°	2647.9	2421.9	2058.2	1858.9	1811.1	1829.4	1870.1	1917.8	1964.2	1988.0	1986.6
17.5°	2732.1	2427.5	1952.9	1774.6	1762.0	1808.3	1878.5	1952.9	2016.1	2049.8	2051.2
20°	2826.2	2417.6	1844.8	1698.8	1712.8	1788.7	1881.3	1971.2	2045.6	2079.3	2087.7
22.5°	2911.8	2383.9	1739.5	1627.2	1670.7	1764.8	1858.9	1943.1	2009.1	2041.4	2052.6
25°	2989.1	2319.4	1624.4	1566.8	1638.4	1731.1	1802.7	1861.7	1908.0	1927.7	1943.1
27.5°	3031.2	2222.5	1537.3	1519.1	1607.5	1683.4	1722.7	1740.9	1756.4	1750.8	1762.0
30°	3039.6	2101.7	1461.5	1481.2	1561.2	1617.4	1625.8	1607.5	1580.9	1537.3	1547.2
32.5°	3031.2	1962.8	1398.4	1440.5	1509.3	1543.0	1531.7	1484.0	1419.4	1352.0	1356.2
35°	3034.0	1822.4	1346.4	1395.5	1448.9	1467.2	1439.1	1373.1	1304.3	1242.5	1239.7
37.5°	3064.9	1704.4	1302.9	1352.0	1389.9	1392.7	1361.9	1293.1	1258.0	1211.6	1206.0
40°	3150.5	1617.4	1263.6	1308.5	1332.4	1331.0	1295.9	1246.7	1270.6	1255.2	1250.9
42.5°	3290.9	1564.0	1231.3	1262.2	1279.0	1281.8	1253.7	1222.9	1274.8	1255.2	1248.1
45°	3516.9	1561.2	1208.8	1215.8	1242.5	1262.2	1242.5	1207.4	1227.1	1131.6	1113.3
47.5°	3785.1	1609.0	1192.0	1175.1	1221.5	1256.6	1225.7	1169.5	1128.8	1041.7	1029.1
50°	4108.0	1705.8	1176.5	1131.6	1190.6	1235.5	1204.6	1127.4	1065.6	1019.3	1012.3
52.5°	4491.3	1833.6	1156.9	1082.5	1144.2	1224.3	1204.6	1123.2	1041.7	999.6	992.6
55°	4892.8	1981.0	1134.4	1023.5	1092.3	1227.1	1214.4	1093.7	1023.5	1001.0	995.4
57.5°	5391.3	2157.9	1093.7	954.7	1046.0	1201.8	1175.1	1076.8	1010.9	992.6	987.0
60°	6038.5	2420.4	1016.5	884.5	992.6	1156.9	1140.0	1048.8	977.2	961.7	957.5
62.5°	7063.4	2865.5	922.4	817.1	929.4	1062.8	1088.1	995.4	935.0	933.6	932.2
65°	8734.1	3400.4	811.5	756.7	863.4	985.6	1019.3	940.7	891.5	907.0	905.6
67.5°	9905.0	3446.8	720.2	693.6	786.2	901.3	950.5	884.5	831.2	860.6	859.2
70°	9072.5	2688.6	641.6	627.6	703.4	810.1	876.1	814.3	761.0	789.0	783.4
72.5°	7651.6	2061.0	567.2	558.8	619.2	714.6	780.6	744.1	687.9	687.9	675.3
75°	6149.4	1700.2	488.6	484.4	525.1	617.7	692.2	630.4	578.4	575.6	567.2
77.5°	3526.8	1114.8	410.0	407.2	419.8	516.7	537.7	525.1	485.8	467.5	461.9
80°	1405.4	579.8	322.9	304.7	317.3	379.1	424.0	402.9	369.2	346.8	334.1
82.5°	544.7	290.6	227.4	199.4	217.6	273.8	307.5	300.4	278.0	227.4	213.4
85°	221.8	141.8	136.2	115.1	126.4	147.4	176.9	153.0	126.4	89.9	85.6
87.5°	59.0	51.9	50.5	30.9	23.9	7.0	1.4	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)