

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: P633788

Luminaire Tested: GWS-SA2F-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633788  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-740-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

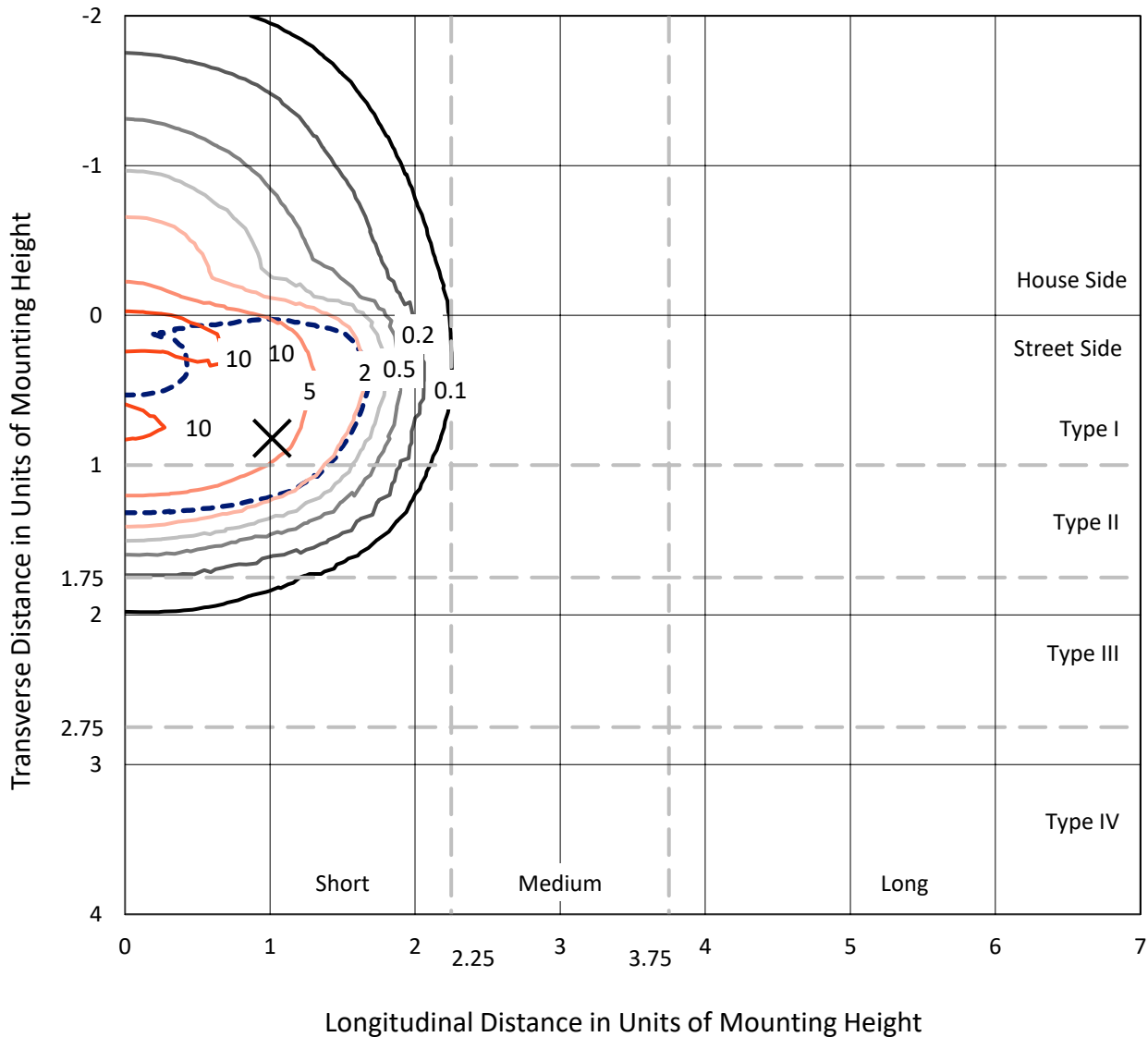
Lumens per Lamp: N/A  
Luminaire Lumens: 14717.1 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

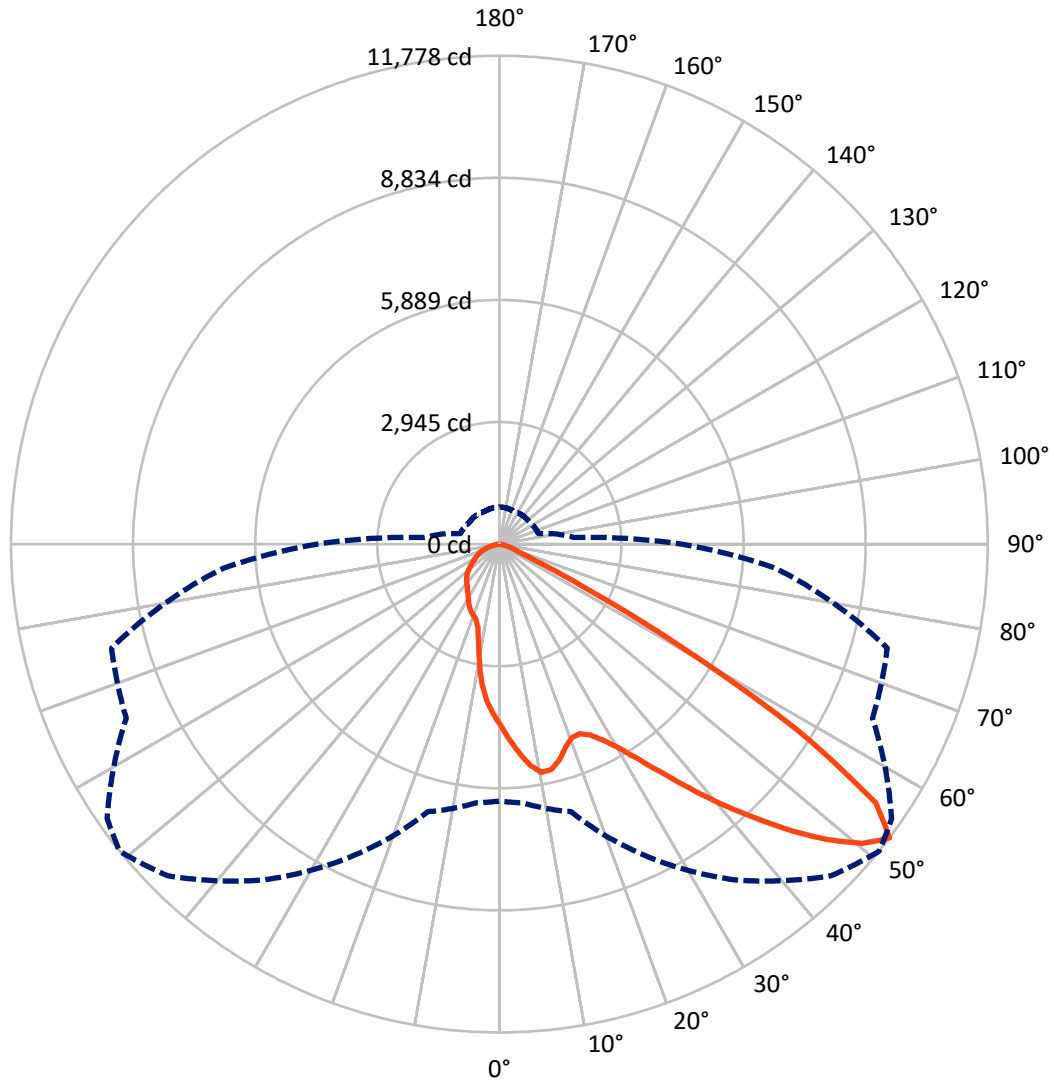
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2867.5	0.0	2867.5
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	11849.6	0.0	11849.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	14717.1	0.0	14717.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.9	2.8
10°-20°	1062.5	7.2
20°-30°	1727.5	11.7
30°-40°	2737.7	18.6
40°-50°	4129.1	28.1
50°-60°	3572.0	24.3
60°-70°	809.8	5.5
70°-80°	238.8	1.6
80°-90°	30.8	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°	14717.1	100.0
0°-180°	14717.1	100.0

**Coefficient of Utilization**



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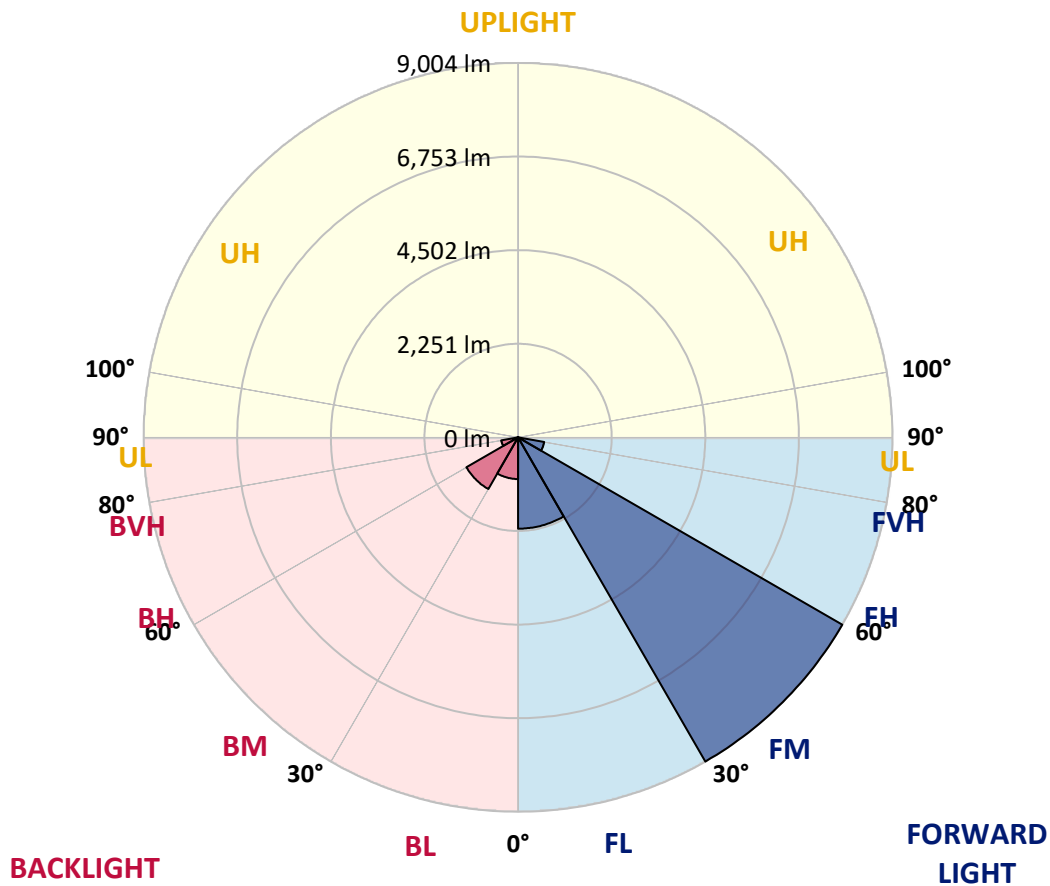
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2196.6	14.9			
FM (30°-60°)	9004.1	61.2			
FH (60°-80°)	637.3	4.3			G0/660
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	1002.4	6.8	B3/2500		
BM (30°-60°)	1434.7	9.7	B2/2500		
BH (60°-80°)	411.3	2.8	B1/500		G1/500
BVH (80°-90°)	19.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0
2.5°	4883.2	4911.2	4868.1	4851.8	4825.1	4778.6	4725.1	4710.0	4594.8	4519.2	4434.3
5°	5374.0	5389.1	5354.2	5319.4	5253.1	5170.5	5067.0	5044.9	4835.6	4662.3	4482.0
7.5°	5483.3	5477.5	5507.8	5527.5	5519.4	5486.8	5394.9	5351.9	5101.9	4827.4	4561.1
10°	5050.7	5018.2	5129.8	5262.4	5421.7	5605.4	5595.0	5591.5	5374.0	5049.6	4662.3
12.5°	4477.4	4461.1	4551.8	4718.1	5019.3	5426.3	5578.7	5697.3	5619.4	5261.2	4775.1
15°	4149.4	4143.6	4205.2	4325.0	4564.6	5078.6	5404.3	5639.2	5829.9	5488.0	4894.9
17.5°	4090.1	4093.6	4114.5	4183.1	4355.3	4778.6	5155.4	5483.3	5993.9	5736.9	5044.9
20°	4263.4	4286.7	4250.6	4261.1	4354.1	4670.4	4985.6	5326.3	6098.5	5986.9	5206.6
22.5°	4648.3	4640.2	4561.1	4514.6	4515.8	4736.7	4967.0	5253.1	6167.2	6230.0	5353.1
25°	5084.4	5075.1	4980.9	4877.4	4812.3	4917.0	5100.7	5331.0	6228.8	6452.1	5470.5
27.5°	5599.6	5570.6	5465.9	5333.3	5189.1	5234.5	5358.9	5541.5	6324.2	6670.7	5548.5
30°	6098.5	6132.3	5982.2	5825.2	5672.9	5645.0	5717.1	5882.2	6518.4	6926.6	5641.5
32.5°	6760.3	6748.6	6582.3	6377.6	6160.2	6139.2	6196.2	6347.4	6867.3	7280.1	5783.4
35°	7561.5	7563.9	7327.8	7051.0	6741.7	6685.8	6781.2	6927.7	7387.1	7759.2	6007.8
37.5°	8394.2	8390.7	8184.9	7870.9	7448.7	7369.6	7479.0	7588.3	8037.2	8411.7	6356.7
40°	8978.0	9001.3	8904.7	8739.6	8339.6	8146.5	8243.0	8318.6	8744.3	9179.2	6816.1
42.5°	9309.5	9344.3	9365.3	9464.1	9253.6	9047.8	9012.9	9052.4	9375.7	9892.1	7247.5
45°	9380.4	9426.9	9579.3	9945.6	10027.0	9968.9	9854.9	9759.5	9846.7	10398.0	7530.1
47.5°	9067.6	9149.0	9474.6	10115.4	10591.0	10773.6	10646.9	10501.5	10118.9	10528.2	7501.1
50°	7827.9	7923.2	8657.0	9768.8	10671.3	11336.5	11348.1	11133.0	10086.3	10152.6	7135.9
52.5°	6197.4	6262.5	6682.3	8281.4	9884.0	11313.2	11778.4	11548.1	9929.3	9682.8	6678.9
55°	3704.0	3808.7	4200.6	5463.6	7699.9	10027.0	11017.8	11129.5	9852.6	9288.5	6367.2
57.5°	1250.2	1301.3	1675.8	2413.1	4537.9	7341.7	8512.8	8966.4	8944.3	8686.1	5759.0
60°	595.4	607.1	682.7	915.2	1816.5	3836.6	5039.1	5562.4	6039.2	6086.9	3583.1
62.5°	453.6	460.5	498.9	548.9	730.3	1616.5	2309.6	2709.7	2894.6	2484.1	1304.8
65°	379.1	384.9	414.0	445.4	496.6	700.1	886.2	1022.2	921.1	717.5	622.2
67.5°	316.3	321.0	343.1	376.8	411.7	468.7	491.9	505.9	530.3	595.4	572.2
70°	247.7	252.4	275.6	304.7	338.4	352.4	374.5	388.4	437.3	521.0	518.7
72.5°	190.7	196.5	209.3	227.9	255.9	269.8	294.2	310.5	338.4	405.9	433.8
75°	139.6	143.0	154.7	160.5	164.0	160.5	184.9	203.5	240.7	266.3	273.3
77.5°	57.0	64.0	61.6	61.6	73.3	88.4	101.2	112.8	138.4	153.5	154.7
80°	23.3	25.6	30.2	33.7	40.7	52.3	60.5	65.1	76.8	86.1	93.0
82.5°	14.0	15.1	17.4	18.6	23.3	30.2	34.9	38.4	47.7	57.0	60.5
85°	7.0	7.0	8.1	9.3	11.6	14.0	16.3	18.6	24.4	30.2	33.7
87.5°	1.2	1.2	1.2	2.3	3.5	4.7	5.8	7.0	8.1	9.3	11.6
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°	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0
2.5°	4384.3	4321.5	4248.3	4190.1	4122.7	4072.7	4001.7	3957.5	3915.7	3880.8	3855.2
5°	4389.0	4283.2	4130.8	3995.9	3856.4	3723.8	3587.7	3477.2	3378.4	3295.8	3288.8
7.5°	4415.7	4263.4	4025.0	3788.9	3516.8	3253.9	2991.1	2777.1	2614.3	2529.4	2512.0
10°	4461.1	4261.1	3916.8	3540.0	3076.0	2652.7	2341.0	2178.2	2084.0	2050.3	2038.7
12.5°	4508.8	4255.3	3778.4	3188.8	2544.5	2173.6	2002.6	1982.8	2000.3	2002.6	2001.4
15°	4566.9	4251.8	3604.0	2777.1	2156.1	1951.4	1963.1	2004.9	2045.6	2054.9	2054.9
17.5°	4637.9	4243.6	3366.8	2374.8	1913.1	1908.4	1970.0	2025.9	2064.2	2071.2	2071.2
20°	4712.3	4222.7	3074.9	2046.8	1814.2	1881.7	1947.9	1991.0	2017.7	2027.0	2028.2
22.5°	4763.5	4166.9	2738.8	1803.7	1752.6	1830.5	1878.2	1922.4	1922.4	1899.1	1892.1
25°	4773.9	4047.1	2374.8	1637.4	1679.3	1751.4	1800.3	1774.7	1727.0	1708.4	1707.2
27.5°	4735.6	3872.6	2015.4	1518.8	1590.9	1663.0	1654.9	1617.7	1596.7	1578.1	1585.1
30°	4689.0	3663.3	1703.7	1421.1	1488.6	1559.5	1531.6	1518.8	1503.7	1482.8	1487.4
32.5°	4657.6	3429.6	1464.2	1345.5	1420.0	1431.6	1451.4	1450.2	1436.2	1396.7	1394.4
35°	4666.9	3193.5	1303.7	1283.9	1363.0	1358.3	1395.5	1388.6	1292.0	1237.4	1233.9
37.5°	4741.4	2966.7	1209.5	1235.1	1272.3	1301.3	1333.9	1250.2	1216.5	1181.6	1183.9
40°	4883.2	2756.2	1158.3	1208.3	1217.6	1260.6	1185.1	1183.9	1168.8	1137.4	1136.2
42.5°	5043.7	2578.3	1123.4	1195.5	1182.7	1190.9	1110.6	1119.9	1118.8	1099.0	1093.2
45°	5141.4	2414.3	1095.5	1147.8	1151.3	1069.9	1045.5	1056.0	1061.8	1051.3	1050.1
47.5°	5040.2	2225.9	1066.4	1074.6	1104.8	1015.3	985.0	986.2	996.7	997.8	993.2
50°	4756.5	2015.4	1031.5	1011.8	992.0	958.3	930.4	924.5	935.0	945.5	949.0
52.5°	4390.2	1814.2	973.4	943.2	896.6	896.6	883.8	865.2	879.2	893.1	897.8
55°	4121.5	1665.4	890.8	857.1	805.9	823.4	821.0	804.8	823.4	833.8	837.3
57.5°	3571.4	1338.6	783.8	773.4	730.3	751.3	755.9	735.0	725.7	728.0	731.5
60°	2120.1	864.1	707.1	705.9	667.5	692.0	705.9	685.0	657.1	660.6	665.2
62.5°	951.3	660.6	610.6	605.9	604.7	636.1	651.3	631.5	591.9	595.4	600.1
65°	598.9	571.0	530.3	530.3	548.9	575.7	587.3	571.0	525.7	519.8	524.5
67.5°	555.9	531.5	489.6	481.5	490.8	512.9	514.0	482.6	455.9	451.2	451.2
70°	498.9	480.3	439.6	423.3	419.8	418.7	415.2	407.0	389.6	384.9	387.3
72.5°	412.8	400.1	374.5	357.0	347.7	346.6	332.6	325.6	310.5	308.2	307.0
75°	273.3	276.8	276.8	274.5	266.3	262.8	247.7	240.7	223.3	216.3	215.1
77.5°	161.7	165.1	169.8	171.0	169.8	169.8	155.8	147.7	130.3	120.9	118.6
80°	98.9	101.2	103.5	107.0	102.3	98.9	86.1	77.9	69.8	64.0	62.8
82.5°	64.0	66.3	67.5	69.8	67.5	62.8	52.3	47.7	41.9	37.2	36.1
85°	36.1	37.2	39.5	39.5	36.1	32.6	26.7	23.3	19.8	17.4	17.4
87.5°	12.8	12.8	12.8	14.0	11.6	10.5	7.0	4.7	3.5	3.5	3.5
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)