

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: P635990

Luminaire Tested: GWS-SA3E-830-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-830-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

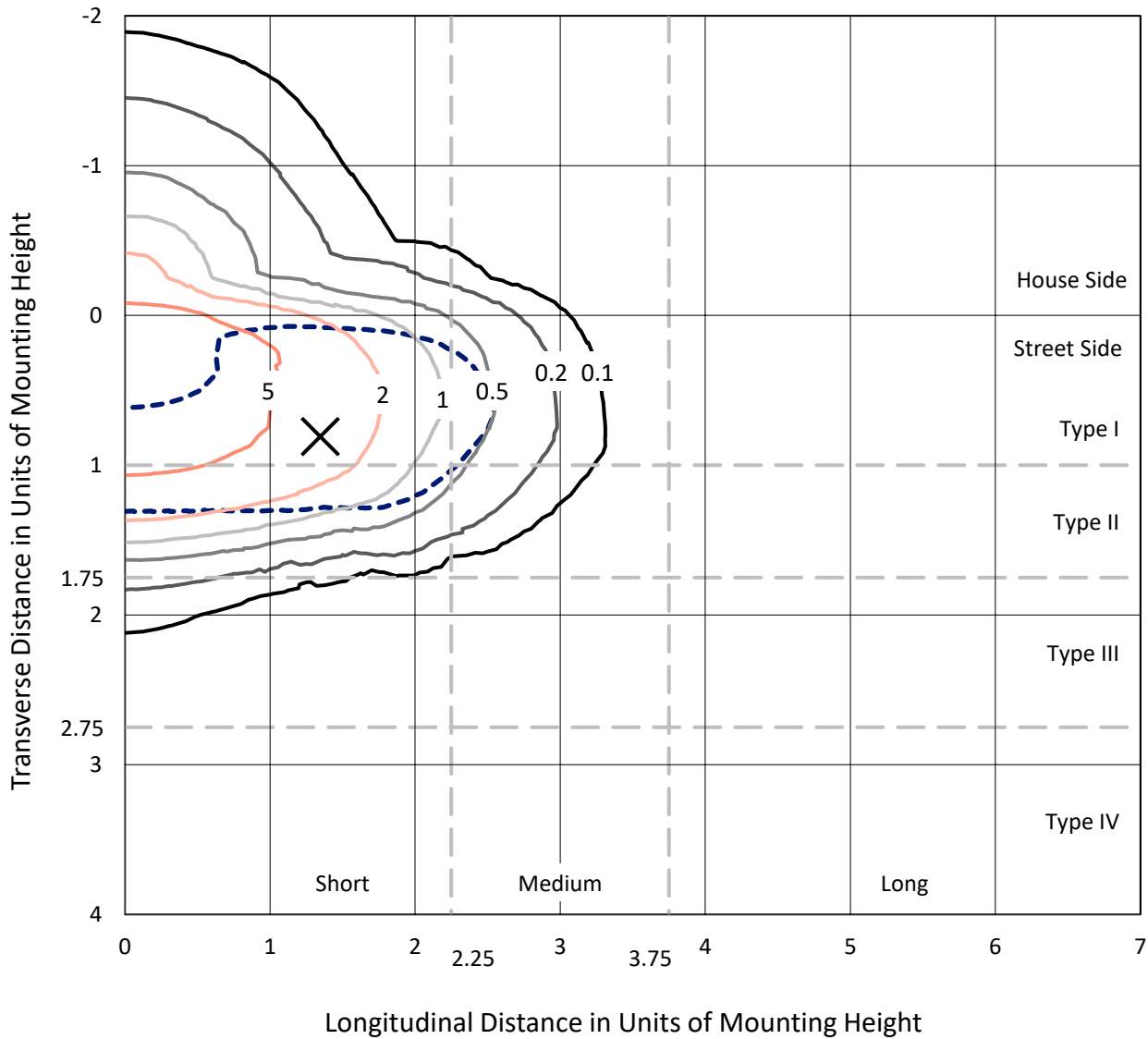
Lumens per Lamp: N/A  
Luminaire Lumens: 17789.8 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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: P635990  
 CATALOG NUMBER: GWS-SA3E-830-U-AFL-W

### Iso-Footcandle Lines of Horizontal Illumination

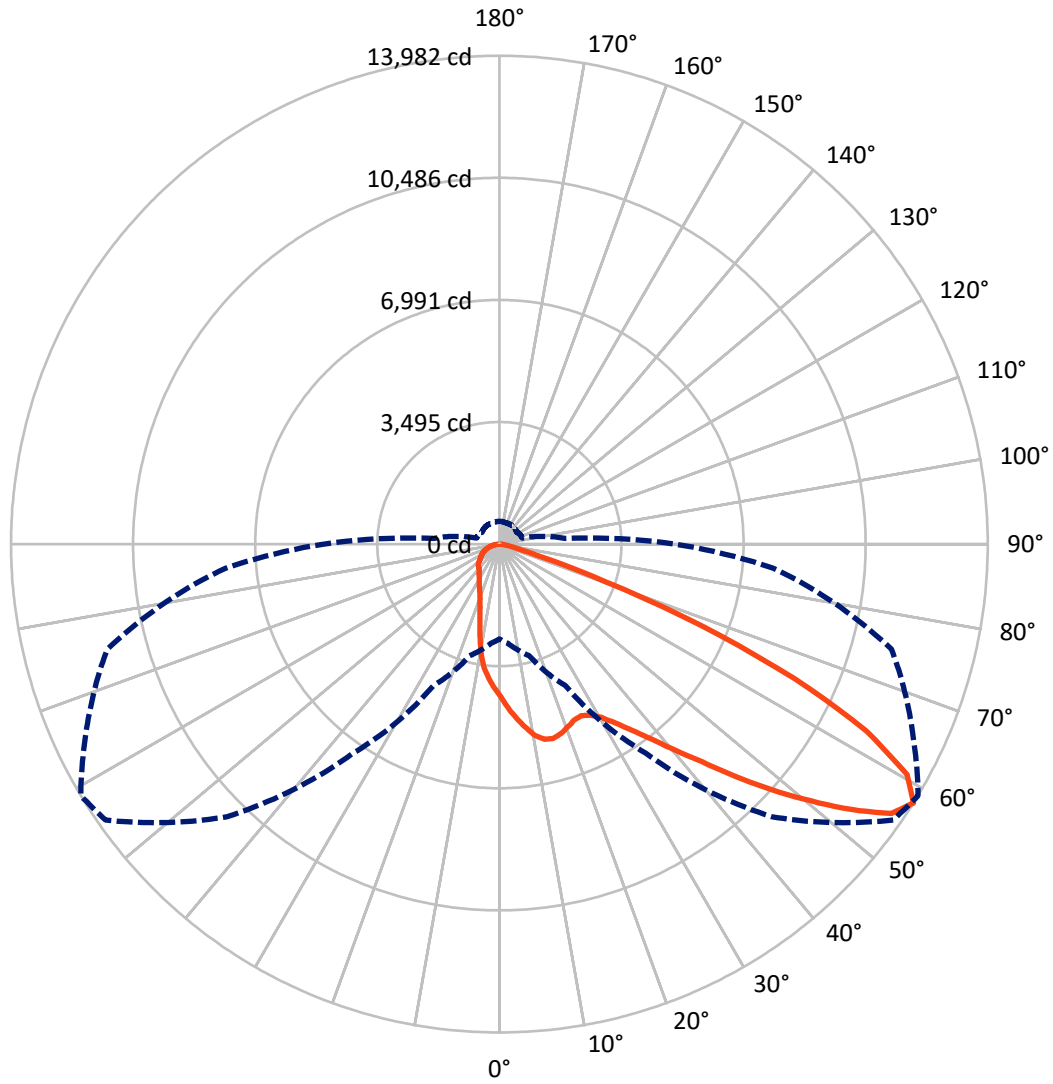
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P635990  
CATALOG NUMBER: GWS-SA3E-830-U-AFL-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P635990

CATALOG NUMBER: GWS-SA3E-830-U-AFL-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2760.9	0.0	2760.9
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	15028.9	0.0	15028.9
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	17789.8	0.0	17789.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.5	2.3
10°-20°	1027.5	5.8
20°-30°	1665.6	9.4
30°-40°	2679.3	15.1
40°-50°	4160.7	23.4
50°-60°	4481.7	25.2
60°-70°	2601.0	14.6
70°-80°	679.0	3.8
80°-90°	89.4	0.5
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°	17789.8	100.0
0°-180°	17789.8	100.0

**Coefficient of Utilization**



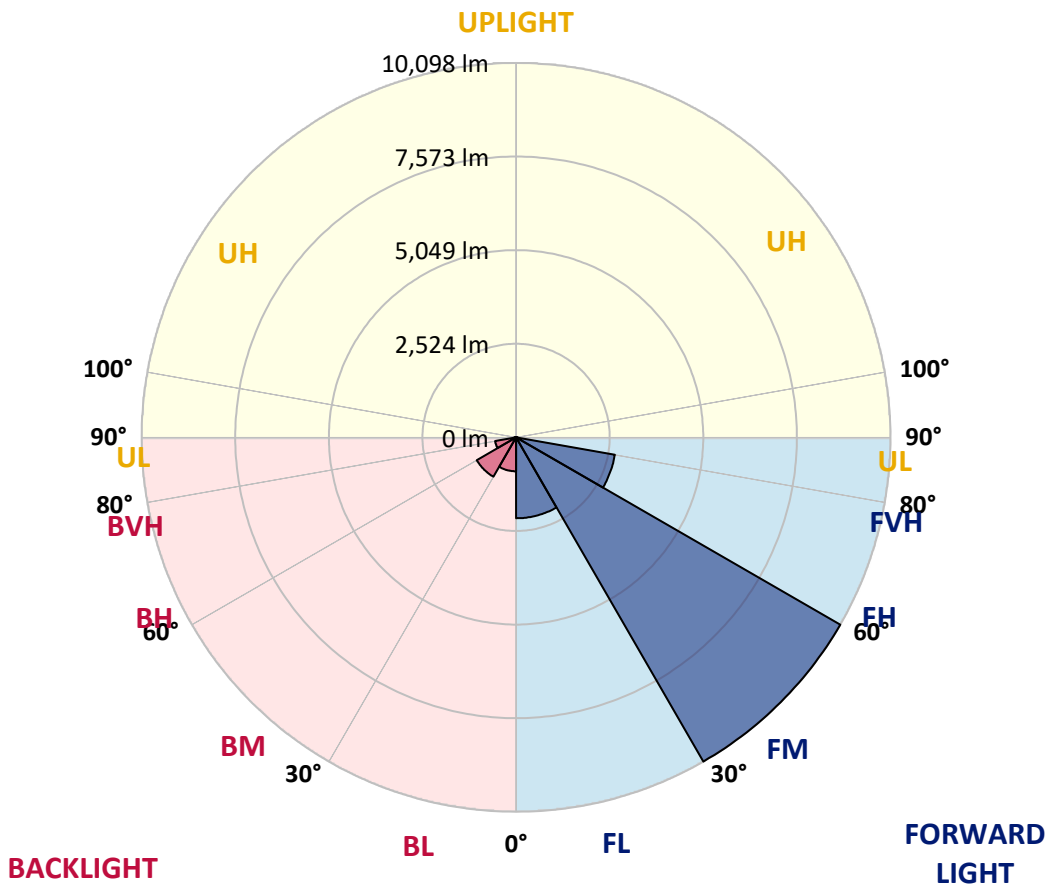
REPORT NUMBER: P635990

CATALOG NUMBER: GWS-SA3E-830-U-AFL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2182.6	12.3			
FM (30°-60°)	10097.7	56.8			
FH (60°-80°)	2705.8	15.2			G2/5000
FVH (80°-90°)	42.8	0.2			G1/100
BL (0°-30°)	915.9	5.1	B2/1000		
BM (30°-60°)	1224.1	6.9	B2/2500		
BH (60°-80°)	574.2	3.2	B2/1000		G2/1000
BVH (80°-90°)	46.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





REPORT NUMBER: P635990  
 CATALOG NUMBER: GWS-SA3E-830-U-AFL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0
2.5°	4953.2	4911.8	4940.6	4889.3	4868.0	4811.6	4739.0	4690.2	4615.0	4517.3	4432.2
5°	5445.3	5416.5	5422.8	5367.7	5318.8	5224.9	5075.9	4993.2	4865.5	4668.9	4486.0
7.5°	5430.3	5464.1	5482.9	5530.5	5544.3	5535.5	5401.5	5286.3	5146.0	4850.5	4574.9
10°	4868.0	4931.9	4989.5	5152.3	5350.2	5600.6	5631.9	5563.1	5421.5	5082.1	4681.4
12.5°	4255.6	4304.4	4355.8	4551.1	4854.2	5355.2	5694.6	5737.1	5680.8	5311.3	4801.6
15°	3955.0	3977.6	4026.4	4155.4	4397.1	4953.2	5585.6	5772.2	5873.7	5554.3	4936.9
17.5°	3942.5	3952.5	3976.3	4045.2	4213.0	4642.6	5389.0	5702.1	6025.2	5811.0	5094.7
20°	4201.7	4175.4	4160.4	4159.1	4241.8	4538.6	5198.6	5589.4	6096.6	6074.0	5263.7
22.5°	4561.2	4569.9	4537.4	4457.2	4447.2	4612.5	5103.4	5475.4	6117.9	6307.0	5420.3
25°	5070.9	5114.7	5018.3	4865.5	4790.3	4826.7	5162.3	5440.3	6115.4	6501.1	5518.0
27.5°	5665.8	5699.6	5601.9	5401.5	5246.2	5158.5	5337.6	5544.3	6136.6	6668.9	5576.8
30°	6343.3	6354.6	6220.6	6010.2	5783.5	5595.6	5629.4	5758.4	6245.6	6889.3	5645.7
32.5°	7171.1	7218.7	7015.8	6682.7	6365.8	6125.4	6021.4	6104.1	6481.1	7149.8	5752.2
35°	8221.9	8238.1	7980.1	7503.0	7054.6	6721.5	6503.6	6547.4	6839.2	7514.3	5912.5
37.5°	9212.5	9228.8	8954.5	8511.2	7869.9	7414.1	7098.5	7078.4	7297.6	8029.0	6174.2
40°	9841.2	9887.5	9764.8	9486.8	8874.3	8259.4	7831.1	7762.2	7898.7	8658.9	6538.7
42.5°	10179.3	10199.4	10196.9	10233.2	9868.7	9257.6	8657.7	8519.9	8611.3	9339.0	6906.9
45°	10181.8	10231.9	10365.9	10715.3	10731.6	10350.9	9702.2	9486.8	9402.8	10024.0	7291.3
47.5°	9726.0	9779.8	10148.0	10835.6	11342.8	11429.2	10953.3	10521.2	10168.1	10613.9	7606.9
50°	8345.8	8481.1	9182.4	10398.5	11463.0	12293.3	12146.8	11560.7	10848.1	11069.8	7804.8
52.5°	7147.3	7142.3	7574.4	9163.6	10960.8	12674.1	13301.5	12630.2	11520.6	11359.1	7854.9
55°	5233.7	5262.5	5704.6	7008.3	9620.8	12305.9	13936.5	13614.6	12292.1	11513.1	7834.9
57.5°	2713.9	2856.7	3310.0	4472.2	7310.1	11038.5	13767.4	13981.5	13076.1	11622.1	7861.2
60°	1371.4	1343.8	1506.6	2135.3	4235.5	8621.4	12725.4	13408.0	13217.6	11707.2	7877.5
62.5°	915.5	908.0	862.9	989.4	1730.8	5105.9	10848.1	11804.9	12234.5	11506.8	7669.6
65°	792.8	777.7	695.1	690.1	840.3	2117.8	7951.3	9280.1	10111.7	10616.4	7172.4
67.5°	713.9	691.3	607.4	566.1	603.6	930.5	4481.0	6224.3	7466.7	8978.3	6082.8
70°	637.5	626.2	542.3	482.2	478.4	567.3	1650.6	3212.3	4568.7	6125.4	4447.2
72.5°	571.1	551.0	479.7	422.1	393.2	402.0	716.4	1237.3	2364.5	3821.0	2660.0
75°	494.7	479.7	417.0	359.4	324.4	294.3	437.1	572.3	1078.3	1815.9	1256.1
77.5°	382.0	372.0	329.4	285.5	265.5	219.2	265.5	360.7	498.4	765.2	653.7
80°	221.7	227.9	245.5	222.9	195.4	156.5	172.8	207.9	299.3	414.5	370.7
82.5°	111.5	119.0	159.1	129.0	116.5	91.4	102.7	122.7	156.5	229.2	145.3
85°	8.8	8.8	28.8	32.6	40.1	32.6	41.3	50.1	71.4	91.4	48.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.3	11.3	21.3	13.8
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: P635990  
 CATALOG NUMBER: GWS-SA3E-830-U-AFL-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0
2.5°	4374.6	4310.7	4234.3	4171.7	4075.2	4023.9	3958.8	3878.6	3846.1	3831.0	3822.3
5°	4383.3	4270.6	4107.8	3957.5	3790.9	3659.4	3512.9	3360.1	3272.5	3251.2	3236.1
7.5°	4415.9	4258.1	3998.8	3750.9	3441.5	3154.7	2875.5	2598.7	2457.2	2403.3	2398.3
10°	4461.0	4253.1	3888.6	3476.6	2954.4	2501.0	2174.1	1957.5	1866.0	1836.0	1826.0
12.5°	4517.3	4249.3	3743.4	3095.9	2392.0	1963.7	1777.1	1742.1	1754.6	1752.1	1752.1
15°	4588.7	4254.3	3568.0	2665.1	1934.9	1704.5	1708.2	1749.6	1788.4	1794.7	1794.7
17.5°	4666.4	4249.3	3313.8	2233.0	1660.7	1643.1	1700.7	1758.3	1793.4	1798.4	1798.4
20°	4750.3	4225.5	2993.2	1826.0	1540.4	1604.3	1666.9	1712.0	1733.3	1738.3	1738.3
22.5°	4800.4	4157.9	2645.0	1545.4	1464.0	1542.9	1584.3	1630.6	1633.1	1593.0	1591.8
25°	4792.8	4031.4	2248.0	1365.1	1382.6	1451.5	1504.1	1471.5	1431.5	1408.9	1405.2
27.5°	4745.3	3841.0	1843.5	1228.6	1286.2	1363.8	1347.6	1320.0	1310.0	1284.9	1282.4
30°	4685.1	3606.8	1480.3	1122.1	1186.0	1257.4	1232.3	1229.8	1219.8	1192.3	1192.3
32.5°	4627.5	3365.1	1206.0	1043.2	1122.1	1127.1	1162.2	1164.7	1159.7	1112.1	1107.1
35°	4611.3	3123.4	1020.7	980.6	1059.5	1057.0	1107.1	1105.8	1019.4	953.1	951.8
37.5°	4660.1	2878.0	910.5	929.3	973.1	1005.7	1045.7	973.1	944.3	904.2	901.7
40°	4764.0	2651.3	854.1	899.2	918.0	965.6	903.0	908.0	900.5	870.4	866.6
42.5°	4901.8	2458.4	822.8	889.2	886.7	899.2	830.3	850.4	861.6	839.1	835.3
45°	5034.6	2290.6	806.5	851.6	864.1	791.5	777.7	796.5	814.0	805.3	801.5
47.5°	5132.2	2145.3	797.8	800.3	835.3	755.2	732.6	741.4	762.7	766.5	765.2
50°	5162.3	2021.3	787.7	757.7	750.2	718.9	701.3	698.8	723.9	741.4	743.9
52.5°	5104.7	1911.1	761.4	720.1	683.8	688.8	682.5	670.0	695.1	718.9	721.4
55°	5019.5	1848.5	720.1	683.8	641.2	661.3	663.8	652.5	668.8	685.1	685.1
57.5°	5025.8	1884.8	680.0	650.0	603.6	629.9	643.7	638.7	638.7	651.2	652.5
60°	5067.1	1937.4	653.7	607.4	566.1	593.6	624.9	619.9	608.7	624.9	624.9
62.5°	4948.1	1867.3	636.2	566.1	526.0	558.6	596.1	593.6	581.1	607.4	609.9
65°	4597.5	1679.4	616.2	514.7	485.9	523.5	556.1	564.8	553.6	588.6	594.9
67.5°	3853.6	1412.7	577.3	465.9	445.8	480.9	512.2	524.7	516.0	557.3	562.3
70°	2873.0	1143.4	516.0	412.0	397.0	428.3	457.1	462.1	463.4	512.2	517.2
72.5°	1832.2	889.2	434.6	351.9	340.6	364.4	385.7	405.8	414.5	460.9	459.6
75°	1021.9	661.3	349.4	298.1	278.0	296.8	321.9	345.7	370.7	438.3	445.8
77.5°	588.6	464.6	276.8	239.2	215.4	235.4	256.7	290.6	365.7	424.6	417.0
80°	331.9	301.8	209.1	175.3	160.3	175.3	191.6	255.5	288.0	313.1	316.9
82.5°	155.3	169.1	142.8	107.7	107.7	117.7	132.8	197.9	217.9	177.8	155.3
85°	56.4	76.4	70.1	55.1	48.8	47.6	82.7	112.7	70.1	62.6	53.9
87.5°	15.0	21.3	20.0	13.8	7.5	6.3	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)