

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: P642642

Luminaire Tested: GWS-SA6D-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-735-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

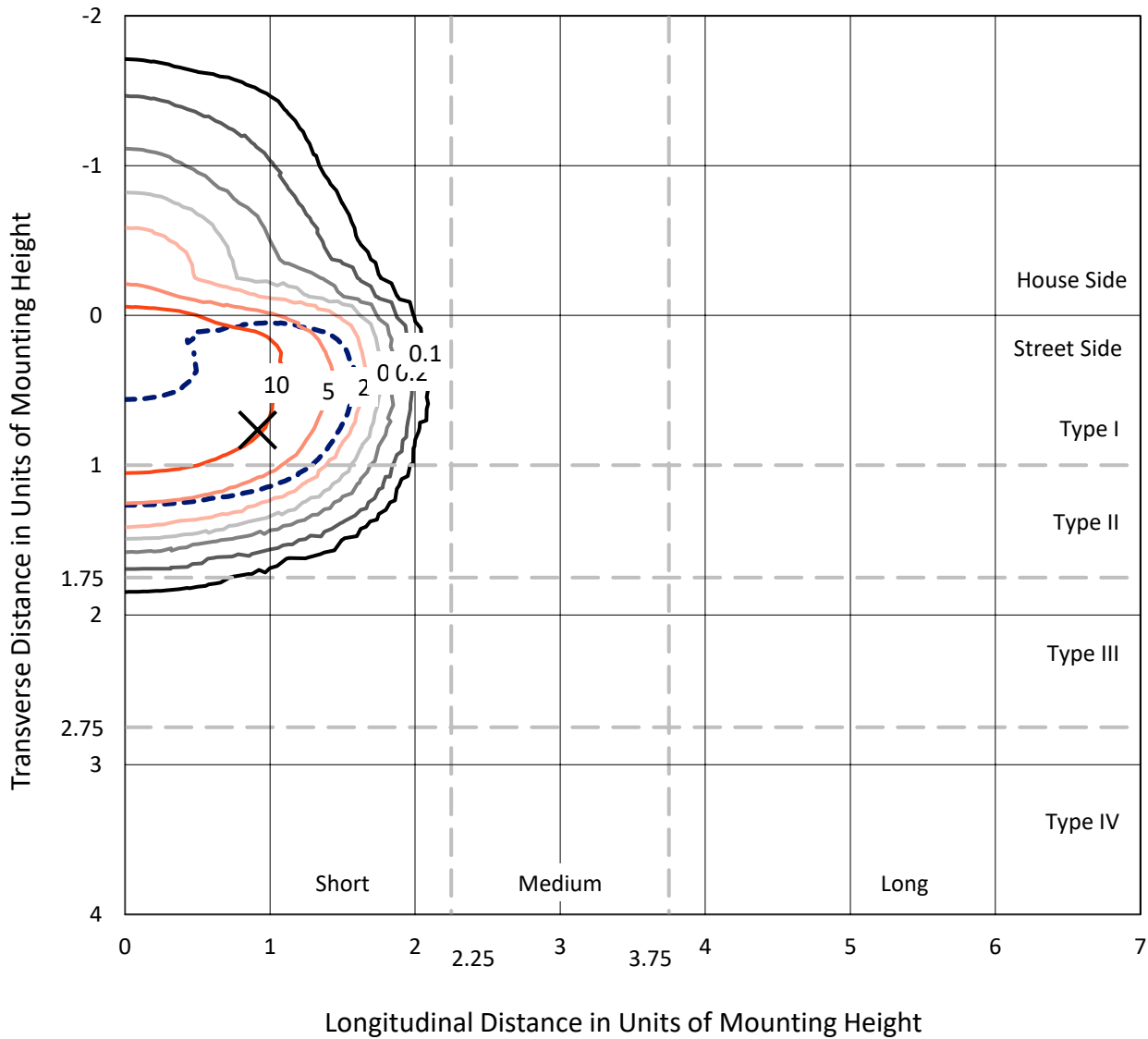
Lumens per Lamp: N/A  
Luminaire Lumens: 26609.2 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

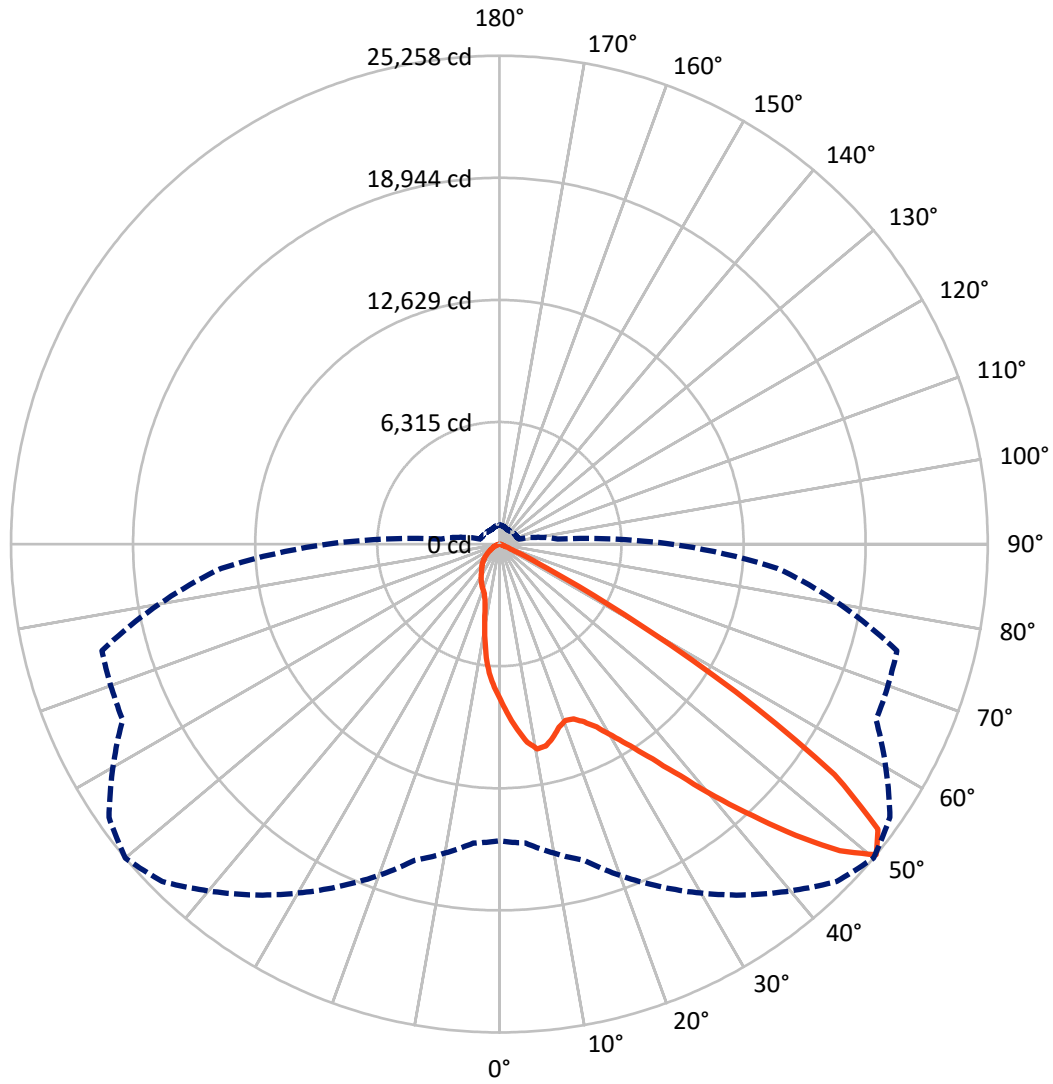
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3418.9	0.0	3418.9
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	23190.3	0.0	23190.3
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	26609.2	0.0	26609.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	747.8	2.8
10°-20°	1929.5	7.3
20°-30°	3184.3	12.0
30°-40°	5254.8	19.7
40°-50°	8314.2	31.2
50°-60°	6294.8	23.7
60°-70°	787.8	3.0
70°-80°	89.1	0.3
80°-90°	6.8	0.0
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°	26609.2	100.0
0°-180°	26609.2	100.0

**Coefficient of Utilization**



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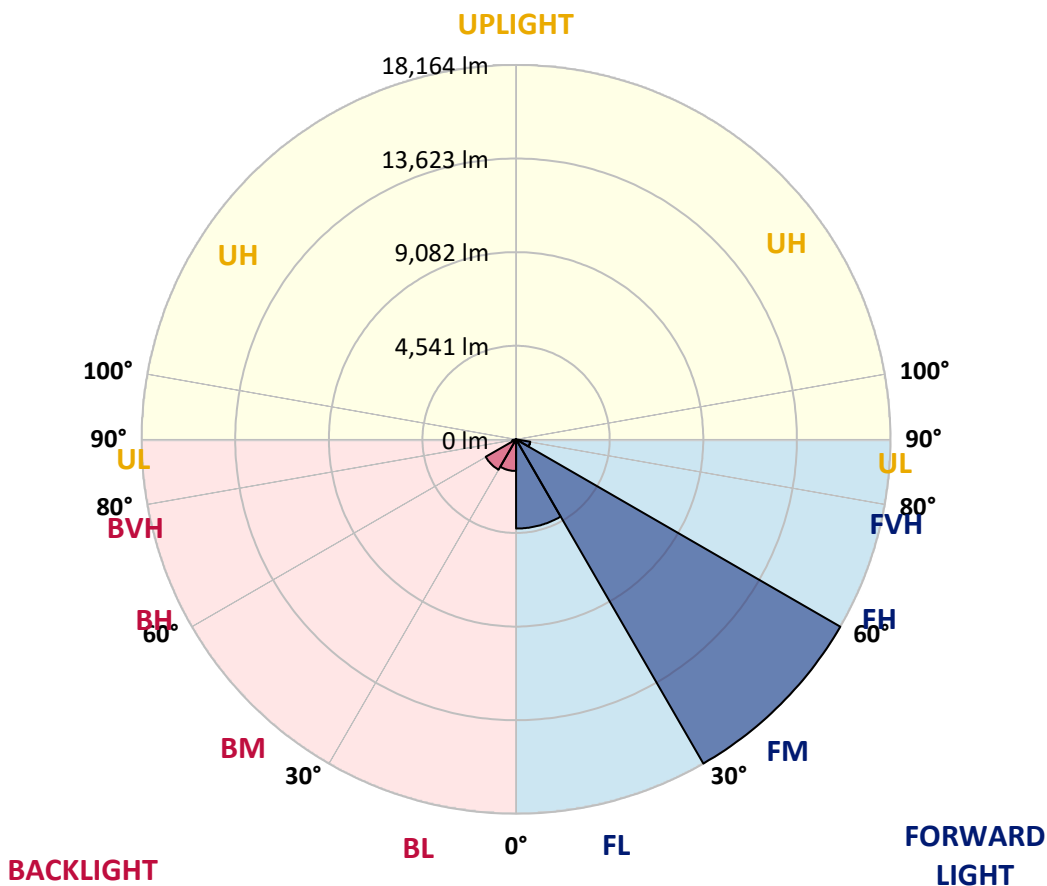
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4327.0	16.3			
FM (30°-60°)	18163.6	68.3			
FH (60°-80°)	696.5	2.6			G1/1800
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	1534.5	5.8	B3/2500		
BM (30°-60°)	1700.3	6.4	B2/2500		
BH (60°-80°)	180.4	0.7	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	8061.5	8061.5	8061.5	8061.5	8061.5	8061.5	8061.5	8061.5	8061.5	8061.5	8061.5
2.5°	9186.0	9259.5	9239.2	9143.0	9039.1	8965.7	8851.7	8816.3	8557.9	8378.1	8188.2
5°	10295.4	10318.2	10292.8	10176.3	9994.0	9819.2	9631.8	9522.9	9089.8	8699.8	8302.1
7.5°	10561.3	10533.4	10581.5	10639.8	10614.5	10538.5	10340.9	10221.9	9705.2	9069.5	8466.8
10°	9730.6	9667.3	9847.1	10148.5	10465.0	10822.2	10771.5	10781.6	10305.5	9535.6	8682.0
12.5°	8628.9	8603.5	8737.8	9087.3	9707.8	10518.2	10713.2	11040.0	10855.1	10039.6	8927.7
15°	8145.1	8157.8	8238.8	8459.2	8904.9	9912.9	10381.5	10971.6	11346.4	10528.4	9198.7
17.5°	8218.6	8264.1	8261.6	8335.1	8606.1	9414.0	9961.0	10756.3	11726.3	11090.6	9510.2
20°	8717.5	8763.1	8694.7	8639.0	8730.2	9287.3	9740.7	10538.5	11982.1	11657.9	9839.5
22.5°	9464.6	9517.8	9355.7	9196.2	9137.9	9495.0	9824.3	10449.8	12177.1	12177.1	10133.3
25°	10368.8	10442.3	10191.5	9907.9	9745.8	9933.2	10181.4	10649.9	12377.2	12643.2	10333.3
27.5°	11379.3	11381.9	11166.6	10847.5	10543.6	10566.4	10715.8	11100.7	12597.6	13144.6	10490.4
30°	12516.5	12524.1	12237.9	11855.5	11473.1	11369.2	11495.8	11787.1	13056.0	13775.3	10708.2
32.5°	13985.5	14020.9	13610.6	13048.4	12552.0	12357.0	12430.4	12736.9	13785.4	14565.5	11034.9
35°	15971.1	16009.1	15403.8	14661.7	13871.5	13577.7	13651.2	13960.1	14841.5	15687.4	11556.6
37.5°	17931.4	17982.0	17369.1	16677.7	15593.7	15107.5	15183.4	15477.2	16427.0	17237.4	12392.4
40°	19286.4	19354.8	19164.8	18698.8	17693.3	17055.1	17146.3	17252.6	18172.0	19091.4	13476.4
42.5°	20000.6	20096.8	20177.9	20416.0	19886.6	19352.2	19197.7	19205.3	19947.4	20980.7	14603.4
45°	20043.7	20137.4	20552.7	21472.1	21874.8	21763.3	21482.2	21292.3	21302.4	22239.5	15307.5
47.5°	18650.7	18825.4	19603.0	21403.7	22918.2	23842.7	23700.8	23250.0	21872.2	22323.1	15231.6
50°	15350.6	15522.8	16936.1	19527.0	22158.4	24673.4	25258.4	24653.1	21499.9	21282.1	14449.0
52.5°	11148.9	11166.6	12083.4	15110.0	19078.7	23141.1	24518.9	24460.7	20932.6	20020.9	13380.2
55°	5295.8	5232.5	6263.3	8527.5	13195.3	18716.5	21039.0	21697.5	20127.2	19109.1	12552.0
57.5°	1542.4	1572.8	2031.2	3327.9	6600.2	11961.9	14408.4	15634.3	16520.7	15710.2	9735.6
60°	691.4	694.0	772.5	1013.1	2198.4	5564.3	7448.6	8965.7	9877.5	9153.1	4829.8
62.5°	501.5	504.0	534.4	572.4	747.1	1884.3	2793.5	3723.0	3791.4	2482.0	1223.3
65°	417.9	417.9	423.0	423.0	448.3	673.7	848.4	1094.1	921.9	683.8	478.7
67.5°	336.8	339.4	344.4	344.4	336.8	336.8	364.7	400.2	428.0	529.3	440.7
70°	263.4	260.9	260.9	263.4	255.8	217.8	235.5	268.5	293.8	412.8	382.4
72.5°	205.1	207.7	205.1	195.0	177.3	129.2	139.3	174.8	187.4	258.3	258.3
75°	154.5	157.0	146.9	111.4	73.4	40.5	53.2	86.1	108.9	126.6	93.7
77.5°	20.3	20.3	15.2	15.2	12.7	15.2	15.2	20.3	30.4	30.4	22.8
80°	2.5	2.5	2.5	5.1	7.6	10.1	10.1	10.1	10.1	12.7	12.7
82.5°	2.5	2.5	2.5	2.5	7.6	7.6	10.1	10.1	10.1	10.1	10.1
85°	0.0	0.0	0.0	2.5	5.1	7.6	7.6	10.1	10.1	10.1	10.1
87.5°	0.0	0.0	0.0	2.5	5.1	7.6	7.6	7.6	10.1	10.1	10.1
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°	8061.5	8061.5	8061.5	8061.5	8061.5	8061.5	8061.5	8061.5	8061.5	8061.5	8061.5
2.5°	8074.2	7927.3	7750.0	7628.4	7456.2	7342.2	7180.2	7071.3	6977.5	6904.1	6944.6
5°	8076.7	7843.7	7481.5	7172.6	6835.7	6526.7	6194.9	5934.1	5698.5	5592.2	5650.4
7.5°	8127.4	7793.1	7238.4	6688.8	6043.0	5404.7	4807.0	4320.8	4080.2	3966.2	4001.6
10°	8226.2	7770.3	6967.4	6055.6	5007.1	4135.9	3555.9	3226.6	3092.4	3021.5	3034.2
12.5°	8317.3	7755.1	6615.4	5222.4	3951.0	3208.9	2907.5	2861.9	2889.8	2892.3	2889.8
15°	8441.4	7727.2	6179.7	4366.3	3160.8	2773.3	2780.9	2846.7	2912.6	2932.8	2927.8
17.5°	8573.1	7684.2	5617.5	3545.8	2682.1	2646.7	2735.3	2823.9	2889.8	2899.9	2902.5
20°	8709.9	7595.5	4976.7	2894.9	2459.2	2550.4	2649.2	2715.0	2763.2	2778.4	2783.4
22.5°	8773.2	7408.1	4237.2	2428.8	2309.8	2431.4	2504.8	2590.9	2606.1	2550.4	2560.5
25°	8740.3	7091.5	3515.4	2114.8	2160.4	2281.9	2390.9	2347.8	2284.5	2244.0	2256.6
27.5°	8636.4	6671.1	2808.7	1884.3	2000.8	2155.3	2168.0	2119.9	2109.7	2076.8	2086.9
30°	8525.0	6187.3	2259.2	1699.4	1838.7	2000.8	1962.8	1980.6	1983.1	1945.1	1957.8
32.5°	8456.6	5680.8	1798.2	1575.3	1734.9	1765.3	1841.3	1876.7	1879.3	1790.6	1805.8
35°	8479.4	5181.9	1522.1	1474.0	1638.6	1631.0	1737.4	1757.7	1610.8	1489.2	1501.9
37.5°	8664.3	4720.9	1365.1	1395.5	1471.5	1529.7	1610.8	1476.6	1443.6	1387.9	1395.5
40°	9008.8	4328.4	1271.4	1347.4	1357.5	1451.2	1327.1	1344.9	1347.4	1311.9	1319.5
42.5°	9411.4	4001.6	1215.7	1319.5	1294.2	1309.4	1185.3	1220.8	1258.7	1243.5	1246.1
45°	9614.1	3682.5	1167.6	1223.3	1230.9	1086.5	1058.7	1096.7	1144.8	1152.4	1154.9
47.5°	9434.2	3378.6	1116.9	1084.0	1134.6	990.3	957.4	970.0	1025.7	1056.1	1061.2
50°	8884.7	3029.1	1040.9	959.9	932.0	889.0	858.6	861.1	924.4	977.6	987.7
52.5°	8112.2	2664.4	916.8	813.0	749.7	782.6	790.2	775.0	833.3	886.4	896.6
55°	7362.5	2208.5	726.9	661.0	602.8	673.7	694.0	673.7	691.4	726.9	729.4
57.5°	5184.4	1248.6	557.2	547.1	498.9	577.5	610.4	580.0	549.6	572.4	577.5
60°	2403.5	653.4	428.0	428.0	415.4	496.4	552.1	509.1	450.8	460.9	468.5
62.5°	752.2	412.8	314.1	296.3	339.4	423.0	468.5	425.5	357.1	357.1	367.2
65°	425.5	354.6	248.2	227.9	276.1	339.4	367.2	321.7	260.9	255.8	255.8
67.5°	395.1	336.8	220.3	184.9	195.0	217.8	227.9	197.5	179.8	177.3	179.8
70°	326.7	281.1	177.3	126.6	119.0	116.5	121.6	114.0	108.9	111.4	119.0
72.5°	202.6	169.7	111.4	76.0	65.8	63.3	63.3	63.3	60.8	60.8	60.8
75°	73.4	63.3	50.7	38.0	32.9	30.4	30.4	32.9	30.4	27.9	25.3
77.5°	22.8	20.3	20.3	20.3	17.7	15.2	12.7	12.7	10.1	7.6	7.6
80°	12.7	12.7	12.7	12.7	10.1	10.1	7.6	5.1	2.5	2.5	0.0
82.5°	12.7	12.7	12.7	10.1	10.1	10.1	7.6	5.1	2.5	0.0	0.0
85°	10.1	10.1	10.1	10.1	10.1	10.1	7.6	5.1	2.5	0.0	0.0
87.5°	10.1	10.1	10.1	10.1	10.1	10.1	7.6	5.1	2.5	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)