

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: P630653

Luminaire Tested: GWS-SA1E-727-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630653  
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-SA1E-727-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

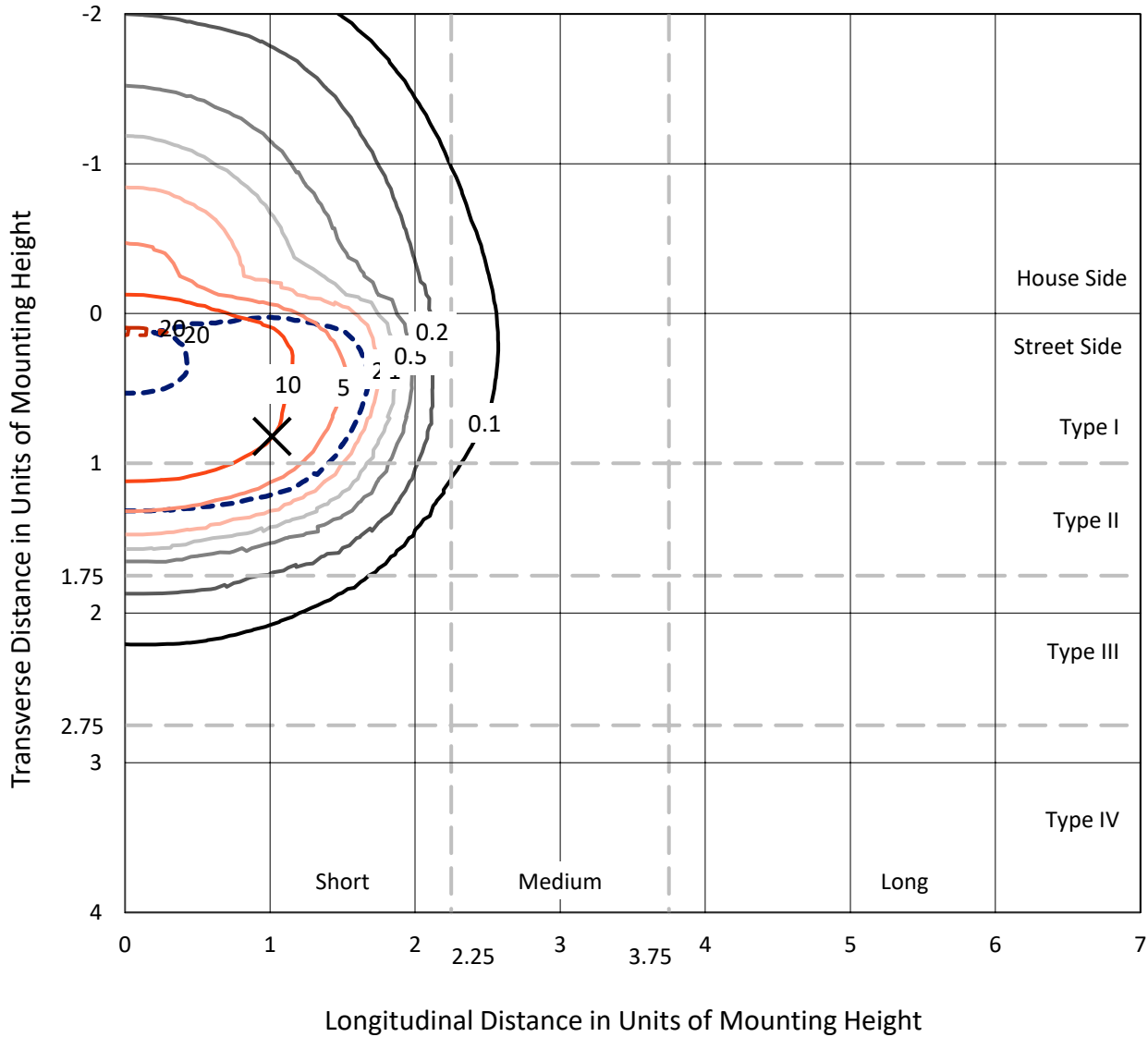
Lumens per Lamp: N/A  
Luminaire Lumens: 5749 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

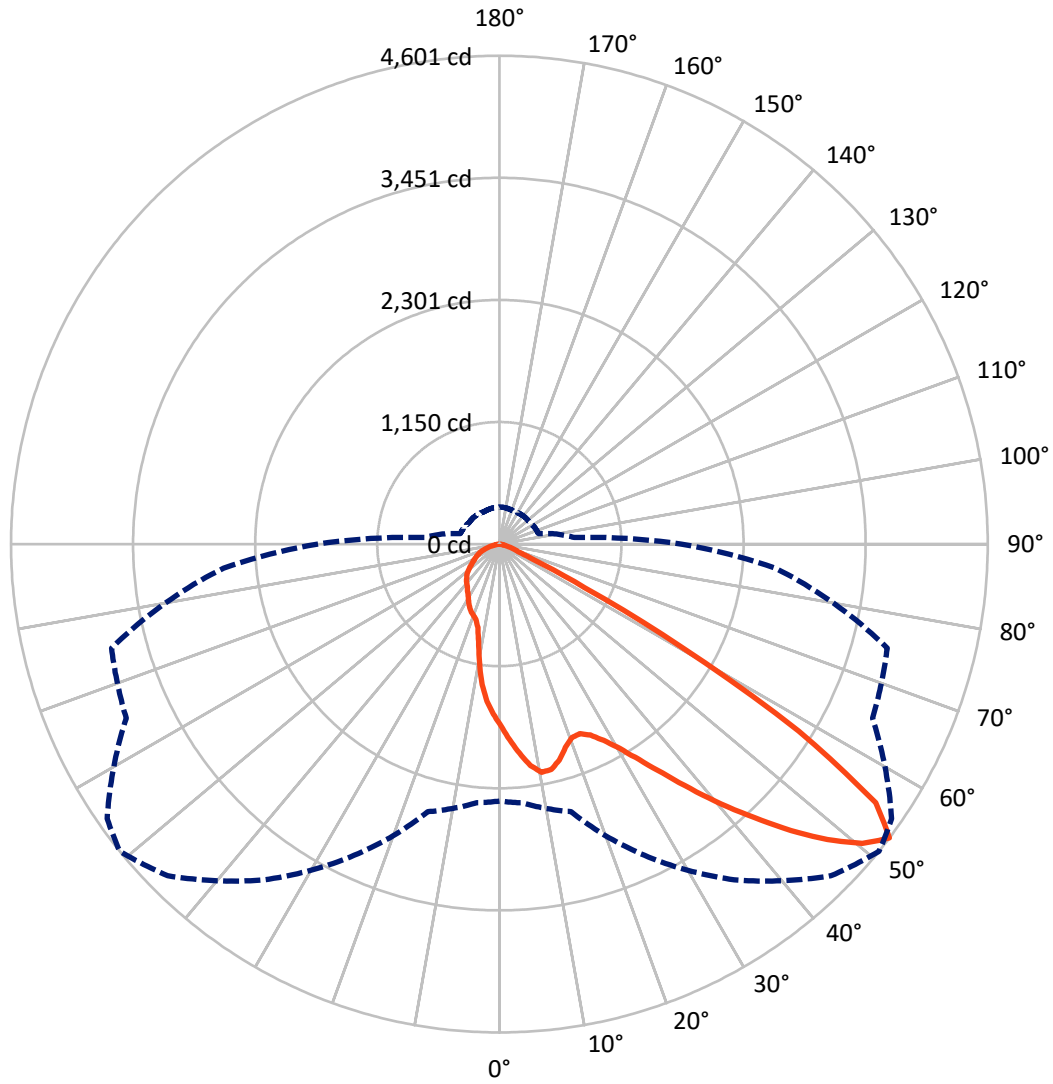
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.9 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	1120.1	0.0	1120.1
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	4628.9	0.0	4628.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	5749.0	0.0	5749.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.7	2.8
10°-20°	415.0	7.2
20°-30°	674.8	11.7
30°-40°	1069.5	18.6
40°-50°	1613.0	28.1
50°-60°	1395.3	24.3
60°-70°	316.3	5.5
70°-80°	93.3	1.6
80°-90°	12.0	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°	5749.0	100.0
0°-180°	5749.0	100.0

**Coefficient of Utilization**



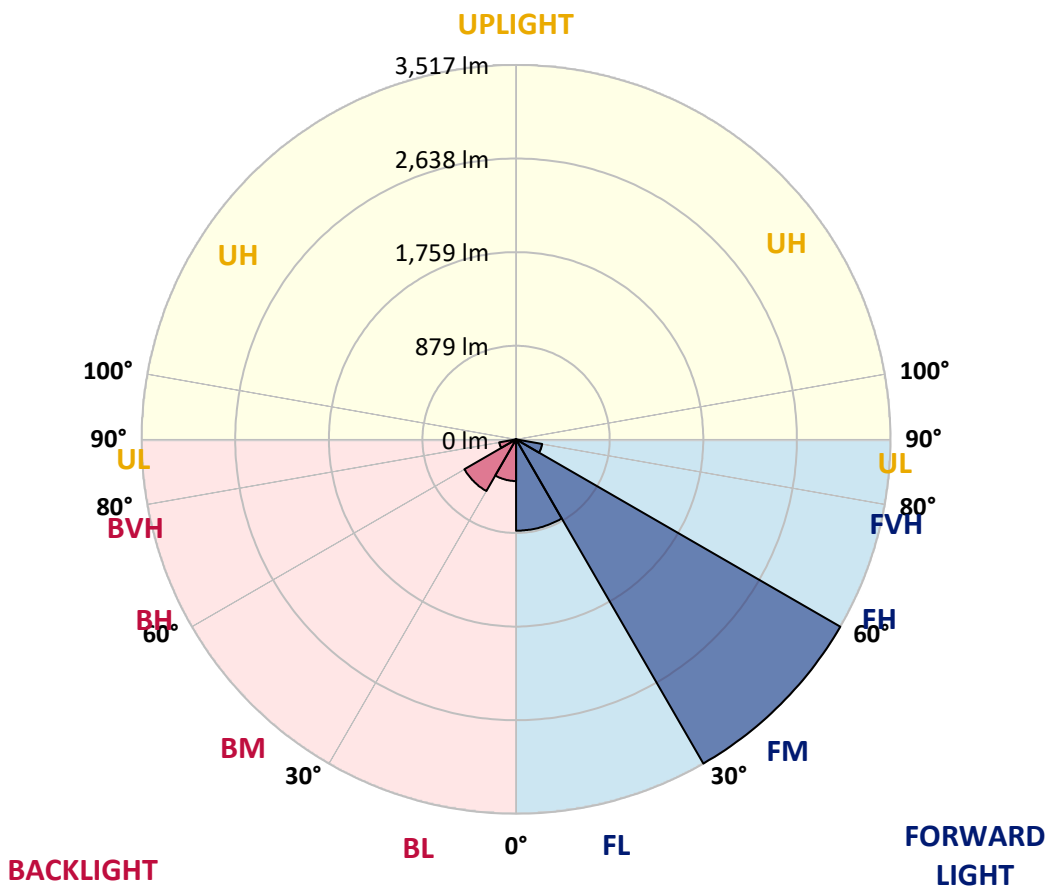
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.1	14.9			
FM (30°-60°)	3517.3	61.2			
FH (60°-80°)	249.0	4.3			G0/660
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	391.6	6.8	B1/500		
BM (30°-60°)	560.4	9.7	B1/1000		
BH (60°-80°)	160.7	2.8	B1/500		G1/500
BVH (80°-90°)	7.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1711.8	1711.8	1711.8	1711.8	1711.8	1711.8	1711.8	1711.8	1711.8	1711.8	1711.8
2.5°	1907.6	1918.5	1901.7	1895.3	1884.8	1866.7	1845.8	1839.9	1794.9	1765.4	1732.2
5°	2099.3	2105.2	2091.6	2077.9	2052.0	2019.8	1979.3	1970.7	1888.9	1821.2	1750.8
7.5°	2142.0	2139.7	2151.5	2159.2	2156.1	2143.3	2107.5	2090.6	1993.0	1885.8	1781.7
10°	1973.0	1960.3	2003.9	2055.7	2117.9	2189.7	2185.6	2184.2	2099.3	1972.5	1821.2
12.5°	1749.0	1742.7	1778.1	1843.1	1960.7	2119.7	2179.2	2225.6	2195.1	2055.2	1865.3
15°	1620.9	1618.6	1642.7	1689.5	1783.1	1983.9	2111.1	2202.9	2277.4	2143.8	1912.1
17.5°	1597.7	1599.1	1607.3	1634.1	1701.3	1866.7	2013.9	2142.0	2341.4	2241.0	1970.7
20°	1665.4	1674.5	1660.4	1664.5	1700.9	1824.4	1947.5	2080.6	2382.3	2338.7	2033.9
22.5°	1815.8	1812.6	1781.7	1763.6	1764.0	1850.3	1940.3	2052.0	2409.1	2433.6	2091.1
25°	1986.2	1982.5	1945.7	1905.3	1879.9	1920.7	1992.5	2082.5	2433.2	2520.4	2137.0
27.5°	2187.4	2176.0	2135.2	2083.4	2027.0	2044.8	2093.4	2164.7	2470.4	2605.8	2167.4
30°	2382.3	2395.5	2336.9	2275.5	2216.0	2205.1	2233.3	2297.8	2546.3	2705.8	2203.8
32.5°	2640.8	2636.2	2571.3	2491.3	2406.4	2398.2	2420.5	2479.5	2682.6	2843.9	2259.2
35°	2953.8	2954.7	2862.5	2754.4	2633.5	2611.7	2649.0	2706.2	2885.6	3031.0	2346.9
37.5°	3279.1	3277.7	3197.3	3074.6	2909.7	2878.8	2921.5	2964.2	3139.6	3285.9	2483.1
40°	3507.1	3516.2	3478.5	3414.0	3257.7	3182.3	3220.0	3249.5	3415.8	3585.7	2662.6
42.5°	3636.6	3650.2	3658.4	3697.0	3614.8	3534.4	3520.7	3536.2	3662.5	3864.2	2831.1
45°	3664.3	3682.5	3742.0	3885.1	3916.9	3894.2	3849.7	3812.4	3846.5	4061.8	2941.5
47.5°	3542.1	3573.9	3701.1	3951.4	4137.2	4208.5	4159.0	4102.2	3952.8	4112.7	2930.2
50°	3057.8	3095.1	3381.7	3816.0	4168.6	4428.4	4433.0	4348.9	3940.1	3966.0	2787.5
52.5°	2420.9	2446.4	2610.3	3235.0	3861.0	4419.3	4601.0	4511.1	3878.7	3782.4	2609.0
55°	1446.9	1487.8	1640.9	2134.3	3007.9	3916.9	4303.9	4347.6	3848.7	3628.4	2487.2
57.5°	488.4	508.4	654.6	942.7	1772.6	2867.9	3325.4	3502.6	3493.9	3393.1	2249.6
60°	232.6	237.1	266.7	357.5	709.6	1498.7	1968.4	2172.9	2359.1	2377.8	1399.7
62.5°	177.2	179.9	194.9	214.4	285.3	631.5	902.2	1058.5	1130.7	970.4	509.7
65°	148.1	150.4	161.7	174.0	194.0	273.5	346.2	399.3	359.8	280.3	243.0
67.5°	123.6	125.4	134.0	147.2	160.8	183.1	192.2	197.6	207.2	232.6	223.5
70°	96.8	98.6	107.7	119.0	132.2	137.6	146.3	151.7	170.8	203.5	202.6
72.5°	74.5	76.8	81.8	89.0	99.9	105.4	114.9	121.3	132.2	158.5	169.5
75°	54.5	55.9	60.4	62.7	64.1	62.7	72.2	79.5	94.0	104.0	106.8
77.5°	22.3	25.0	24.1	24.1	28.6	34.5	39.5	44.1	54.1	60.0	60.4
80°	9.1	10.0	11.8	13.2	15.9	20.4	23.6	25.4	30.0	33.6	36.3
82.5°	5.5	5.9	6.8	7.3	9.1	11.8	13.6	15.0	18.6	22.3	23.6
85°	2.7	2.7	3.2	3.6	4.5	5.5	6.4	7.3	9.5	11.8	13.2
87.5°	0.5	0.5	0.5	0.9	1.4	1.8	2.3	2.7	3.2	3.6	4.5
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°	1711.8	1711.8	1711.8	1711.8	1711.8	1711.8	1711.8	1711.8	1711.8	1711.8	1711.8
2.5°	1712.7	1688.1	1659.5	1636.8	1610.5	1590.9	1563.2	1545.9	1529.6	1516.0	1506.0
5°	1714.5	1673.1	1613.6	1560.9	1506.4	1454.6	1401.5	1358.3	1319.7	1287.5	1284.7
7.5°	1724.9	1665.4	1572.3	1480.1	1373.8	1271.1	1168.4	1084.8	1021.2	988.1	981.3
10°	1742.7	1664.5	1530.0	1382.9	1201.6	1036.2	914.5	850.9	814.1	800.9	796.4
12.5°	1761.3	1662.2	1476.0	1245.7	994.0	849.1	782.3	774.6	781.4	782.3	781.8
15°	1784.0	1660.9	1407.8	1084.8	842.3	762.3	766.8	783.2	799.1	802.7	802.7
17.5°	1811.7	1657.7	1315.2	927.7	747.3	745.5	769.6	791.4	806.4	809.1	809.1
20°	1840.8	1649.5	1201.1	799.6	708.7	735.0	760.9	777.7	788.2	791.8	792.3
22.5°	1860.8	1627.7	1069.9	704.6	684.6	715.1	733.7	750.9	750.9	741.9	739.1
25°	1864.9	1580.9	927.7	639.6	656.0	684.2	703.2	693.2	674.6	667.4	666.9
27.5°	1849.9	1512.8	787.3	593.3	621.5	649.6	646.5	631.9	623.7	616.5	619.2
30°	1831.7	1431.0	665.5	555.1	581.5	609.2	598.3	593.3	587.4	579.2	581.0
32.5°	1819.4	1339.7	572.0	525.6	554.7	559.2	567.0	566.5	561.0	545.6	544.7
35°	1823.1	1247.5	509.3	501.5	532.4	530.6	545.1	542.4	504.7	483.4	482.0
37.5°	1852.1	1158.9	472.5	482.5	497.0	508.4	521.1	488.4	475.2	461.6	462.5
40°	1907.6	1076.7	452.5	472.0	475.6	492.5	462.9	462.5	456.6	444.3	443.8
42.5°	1970.3	1007.2	438.8	467.0	462.0	465.2	433.8	437.5	437.0	429.3	427.0
45°	2008.4	943.1	427.9	448.4	449.7	417.9	408.4	412.5	414.8	410.7	410.2
47.5°	1968.9	869.5	416.6	419.8	431.6	396.6	384.8	385.2	389.3	389.8	388.0
50°	1858.0	787.3	403.0	395.2	387.5	374.3	363.4	361.2	365.2	369.3	370.7
52.5°	1714.9	708.7	380.2	368.4	350.3	350.3	345.3	338.0	343.4	348.9	350.7
55°	1610.0	650.5	348.0	334.8	314.8	321.6	320.7	314.4	321.6	325.7	327.1
57.5°	1395.1	522.9	306.2	302.1	285.3	293.5	295.3	287.1	283.5	284.4	285.7
60°	828.2	337.5	276.2	275.8	260.8	270.3	275.8	267.6	256.7	258.0	259.9
62.5°	371.6	258.0	238.5	236.7	236.2	248.5	254.4	246.7	231.2	232.6	234.4
65°	234.0	223.1	207.2	207.2	214.4	224.9	229.4	223.1	205.3	203.1	204.9
67.5°	217.2	207.6	191.3	188.1	191.7	200.3	200.8	188.5	178.1	176.3	176.3
70°	194.9	187.6	171.7	165.4	164.0	163.5	162.2	159.0	152.2	150.4	151.3
72.5°	161.3	156.3	146.3	139.5	135.8	135.4	129.9	127.2	121.3	120.4	119.9
75°	106.8	108.1	108.1	107.2	104.0	102.7	96.8	94.0	87.2	84.5	84.0
77.5°	63.1	64.5	66.3	66.8	66.3	66.3	60.9	57.7	50.9	47.2	46.3
80°	38.6	39.5	40.4	41.8	40.0	38.6	33.6	30.4	27.3	25.0	24.5
82.5°	25.0	25.9	26.3	27.3	26.3	24.5	20.4	18.6	16.4	14.5	14.1
85°	14.1	14.5	15.4	15.4	14.1	12.7	10.4	9.1	7.7	6.8	6.8
87.5°	5.0	5.0	5.0	5.5	4.5	4.1	2.7	1.8	1.4	1.4	1.4
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)