

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: P639541

Luminaire Tested: GWS-SA5C-722-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-722-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10831.3 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

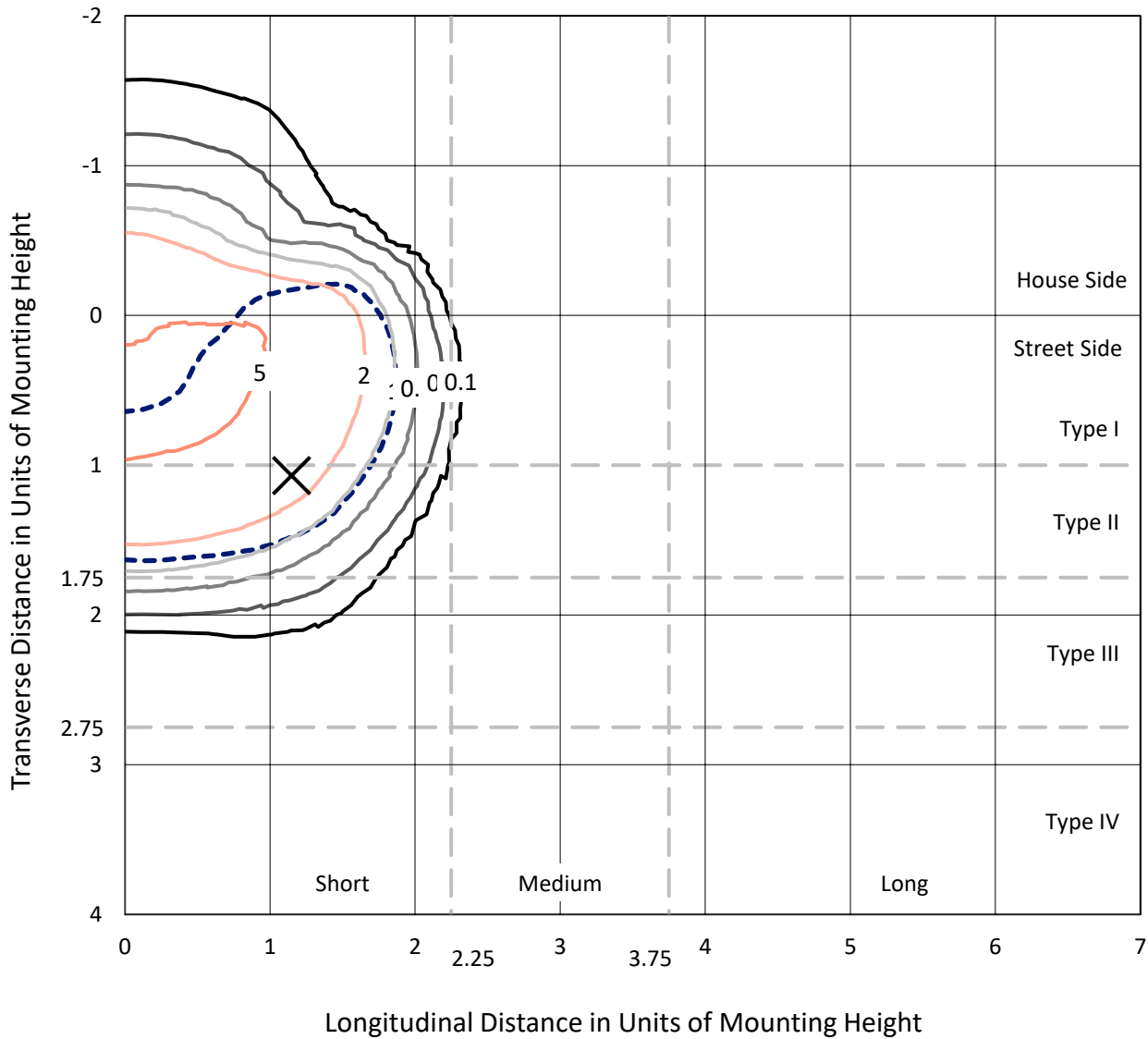
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

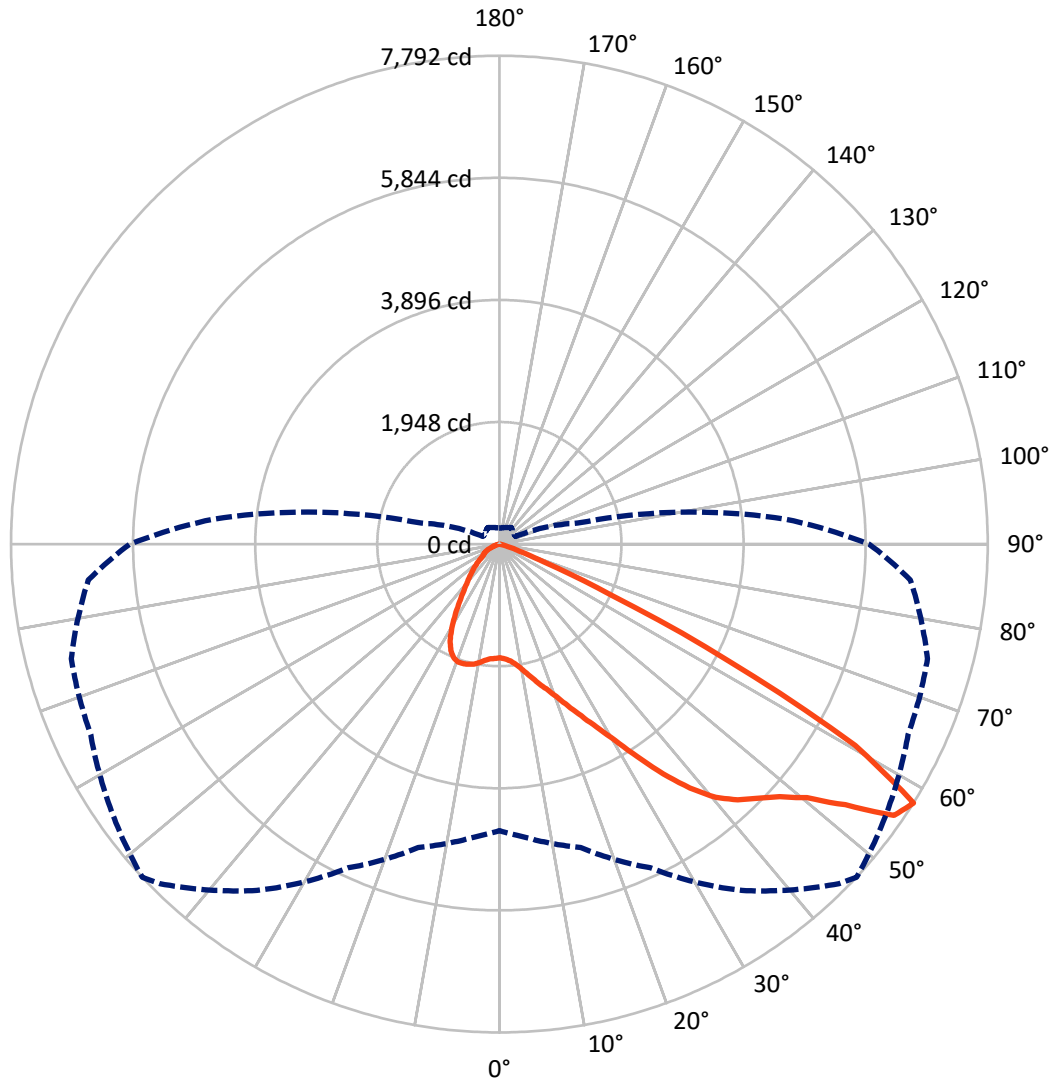
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2349.8	0.0	2349.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8481.5	0.0	8481.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	10831.3	0.0	10831.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	1.7
10°-20°	608.7	5.6
20°-30°	1130.2	10.4
30°-40°	1809.2	16.7
40°-50°	2644.6	24.4
50°-60°	3263.9	30.1
60°-70°	1090.6	10.1
70°-80°	101.6	0.9
80°-90°	2.1	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°	10831.3	100.0
0°-180°	10831.3	100.0

Coefficient of Utilization



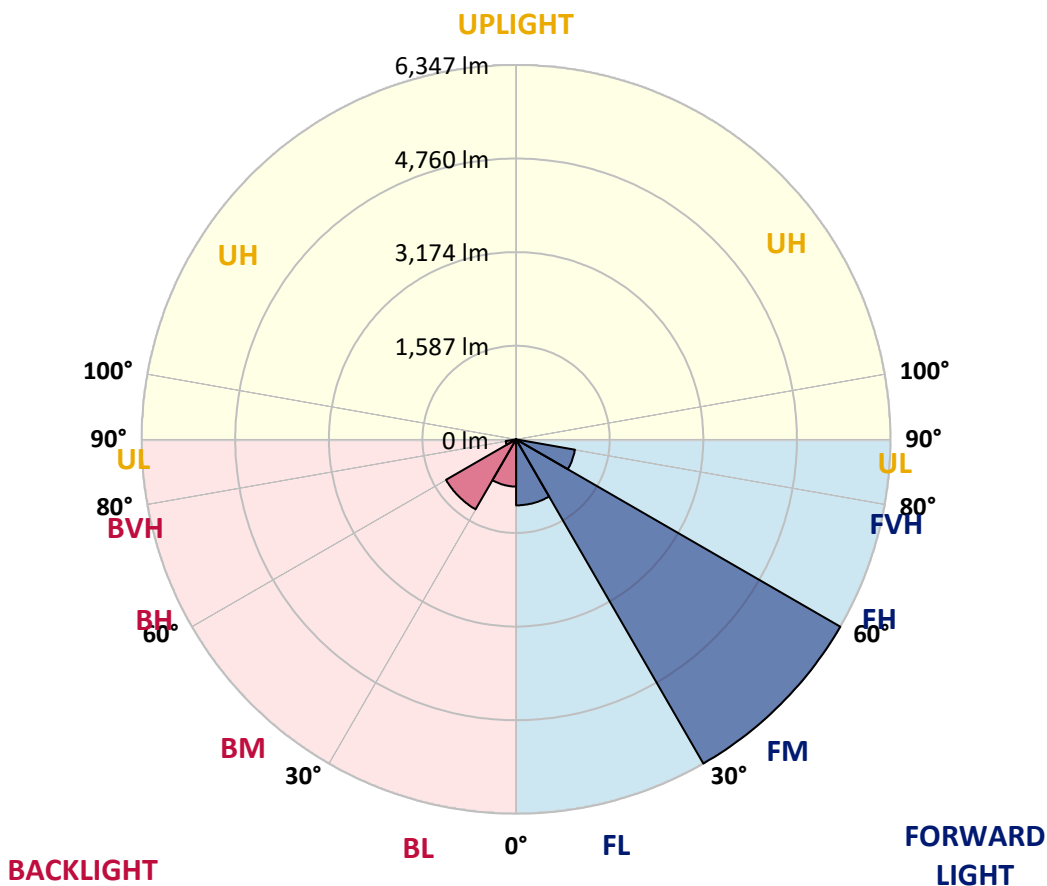
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.4	10.3			
FM (30°-60°)	6347.1	58.6			
FH (60°-80°)	1013.6	9.4			G1/1800
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	799.9	7.4	B2/1000		
BM (30°-60°)	1370.7	12.7	B2/2500		
BH (60°-80°)	178.6	1.6	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2
2.5°	1832.0	1830.8	1829.5	1837.1	1834.5	1833.3	1835.8	1835.8	1835.8	1828.3	1813.2
5°	1876.0	1876.0	1874.8	1882.3	1876.0	1872.3	1873.5	1873.5	1868.5	1854.7	1835.8
7.5°	1945.2	1942.7	1940.2	1947.7	1941.4	1940.2	1942.7	1935.1	1926.3	1903.7	1877.3
10°	2044.5	2044.5	2040.8	2048.3	2043.3	2040.8	2040.8	2035.7	2019.4	1984.2	1945.2
12.5°	2181.6	2175.3	2166.5	2160.2	2157.7	2156.4	2157.7	2150.2	2132.6	2087.3	2033.2
15°	2331.2	2326.2	2312.4	2302.3	2288.5	2286.0	2293.5	2287.2	2269.6	2208.0	2131.3
17.5°	2519.8	2526.1	2490.9	2469.5	2429.3	2426.8	2429.3	2439.4	2426.8	2347.6	2235.7
20°	2680.8	2685.8	2659.4	2644.3	2607.8	2591.5	2596.5	2612.9	2599.0	2506.0	2350.1
22.5°	2853.0	2859.3	2831.7	2800.2	2783.9	2783.9	2802.7	2825.4	2806.5	2684.5	2480.9
25°	3059.3	3064.3	3041.7	3000.2	2971.2	3007.7	3035.4	3095.7	3064.3	2898.3	2635.5
27.5°	3295.6	3296.9	3264.2	3221.5	3206.4	3274.3	3301.9	3395.0	3382.4	3138.5	2799.0
30°	3548.4	3549.6	3542.1	3513.2	3499.3	3588.6	3626.3	3760.9	3752.1	3436.5	3021.5
32.5°	3811.2	3811.2	3825.0	3822.5	3838.8	3984.7	4045.1	4198.5	4189.7	3801.1	3298.2
35°	4075.2	4076.5	4100.4	4160.7	4228.6	4422.3	4501.5	4687.6	4667.5	4237.4	3651.5
37.5°	4375.8	4363.2	4395.9	4486.4	4637.3	4861.1	4936.6	5113.8	5091.2	4683.8	4113.0
40°	4737.9	4715.3	4715.3	4820.9	4991.9	5249.6	5313.8	5401.8	5325.1	5044.7	4565.6
42.5°	5137.7	5116.4	5088.7	5181.7	5325.1	5526.3	5579.1	5555.2	5492.3	5385.4	5081.2
45°	5542.6	5509.9	5528.8	5585.4	5668.4	5763.9	5784.0	5673.4	5644.5	5674.6	5507.4
47.5°	5850.7	5828.1	5874.6	5953.8	6021.7	6035.5	6021.7	5868.3	5865.8	5972.7	5802.9
50°	5953.8	5956.3	6084.6	6258.1	6367.5	6378.8	6359.9	6183.9	6160.0	6191.4	5962.6
52.5°	5963.8	5973.9	6161.3	6492.0	6790.0	6925.8	6910.7	6720.8	6486.9	6453.0	6204.0
55°	5721.2	5780.3	6041.8	6524.7	7158.4	7592.2	7642.5	7279.1	6932.0	6903.1	6723.3
57.5°	4573.2	4693.9	5009.5	5697.3	6747.2	7661.3	7792.1	7530.6	7194.8	7071.6	6583.7
60°	2733.6	2883.2	3186.3	4030.0	5135.2	6297.1	6522.1	6558.6	6403.9	6048.1	5051.0
62.5°	1173.2	1160.6	1534.0	2180.3	3054.2	4002.3	4104.2	4262.6	4397.1	4024.9	3065.5
65°	402.4	437.6	608.6	983.3	1529.0	1858.4	1949.0	2091.1	2282.2	1883.6	1122.9
67.5°	249.0	264.1	350.8	580.9	824.9	812.3	772.0	749.4	729.3	499.2	308.1
70°	181.1	193.6	246.5	399.9	554.5	389.8	338.2	274.1	304.3	280.4	218.8
72.5°	122.0	132.0	169.7	242.7	284.2	189.9	176.0	199.9	241.4	230.1	178.6
75°	72.9	79.2	96.8	118.2	115.7	98.1	99.3	140.8	184.8	172.3	127.0
77.5°	50.3	52.8	64.1	76.7	56.6	30.2	27.7	39.0	62.9	62.9	42.8
80°	12.6	16.3	16.3	10.1	8.8	7.5	7.5	11.3	17.6	12.6	6.3
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	2.5	2.5
85°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	2.5
87.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5
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°	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2
2.5°	1822.0	1806.9	1816.9	1814.4	1822.0	1824.5	1813.2	1810.7	1811.9	1796.8	1791.8
5°	1839.6	1822.0	1827.0	1822.0	1830.8	1838.3	1834.5	1839.6	1845.9	1834.5	1829.5
7.5°	1877.3	1859.7	1858.4	1850.9	1863.5	1868.5	1867.2	1881.1	1893.6	1886.1	1878.6
10°	1942.7	1918.8	1916.3	1910.0	1913.8	1917.5	1903.7	1906.2	1917.5	1908.7	1905.0
12.5°	2023.2	1994.2	1987.9	1972.9	1972.9	1954.0	1923.8	1917.5	1926.3	1920.1	1913.8
15°	2109.9	2070.9	2060.9	2034.5	2009.3	1974.1	1942.7	1935.1	1941.4	1933.9	1928.9
17.5°	2206.7	2162.7	2130.0	2083.5	2028.2	1986.7	1951.5	1935.1	1925.1	1910.0	1908.7
20°	2302.3	2244.5	2189.1	2114.9	2042.0	1979.1	1921.3	1878.6	1842.1	1819.5	1810.7
22.5°	2413.0	2327.4	2238.2	2133.8	2029.4	1933.9	1832.0	1759.1	1696.2	1674.9	1664.8
25°	2531.1	2420.5	2287.2	2151.4	1986.7	1833.3	1695.0	1586.8	1503.9	1476.2	1464.9
27.5°	2661.9	2509.8	2337.5	2147.6	1898.7	1689.9	1506.4	1371.8	1290.1	1264.9	1273.7
30°	2827.9	2625.5	2400.4	2108.7	1766.6	1488.8	1273.7	1160.6	1099.0	1075.1	1076.3
32.5°	3049.2	2791.4	2492.2	2025.7	1596.9	1259.9	1071.3	988.3	946.8	915.4	912.9
35°	3366.1	3044.2	2577.7	1892.4	1390.7	1056.2	919.2	853.8	795.9	759.5	765.8
37.5°	3745.8	3362.3	2624.2	1712.6	1159.3	897.8	804.7	738.1	672.7	618.6	624.9
40°	4195.9	3778.5	2620.4	1476.2	948.1	789.6	709.2	631.2	549.5	500.4	505.5
42.5°	4697.6	4172.1	2538.7	1226.0	785.9	701.6	617.4	519.3	440.1	409.9	411.2
45°	5132.7	4491.4	2395.3	966.9	661.4	616.1	521.8	421.2	386.0	364.6	363.4
47.5°	5454.6	4725.3	2190.4	760.7	560.8	538.2	428.8	377.2	349.6	332.0	329.4
50°	5634.4	4807.0	1964.1	596.0	474.0	456.4	383.5	342.0	323.2	311.8	309.3
52.5°	5875.8	4905.1	1801.9	470.3	397.3	373.4	353.3	318.1	305.5	296.7	293.0
55°	6258.1	5095.0	1661.0	373.4	330.7	325.7	333.2	304.3	296.7	282.9	277.9
57.5°	5898.5	4576.9	1290.1	289.2	279.1	298.0	321.9	290.5	271.6	259.0	254.0
60°	4150.7	3042.9	648.8	232.6	249.0	279.1	303.0	262.8	243.9	246.5	243.9
62.5°	2288.5	1522.7	291.7	194.9	216.3	246.5	259.0	227.6	215.0	236.4	240.2
65°	748.2	518.0	168.5	150.9	171.0	201.2	223.8	216.3	213.8	238.9	246.5
67.5°	230.1	171.0	114.4	108.1	118.2	148.4	188.6	233.9	251.5	259.0	262.8
70°	172.3	134.5	98.1	91.8	96.8	113.2	159.7	194.9	183.6	184.8	182.3
72.5°	138.3	106.9	84.2	80.5	80.5	78.0	84.2	105.6	119.5	125.7	125.7
75°	96.8	75.4	64.1	59.1	46.5	37.7	33.9	33.9	30.2	28.9	27.7
77.5°	32.7	27.7	25.1	20.1	13.8	11.3	10.1	8.8	6.3	3.8	2.5
80°	5.0	3.8	2.5	2.5	2.5	1.3	1.3	1.3	0.0	0.0	0.0
82.5°	2.5	2.5	2.5	2.5	2.5	1.3	1.3	0.0	0.0	0.0	0.0
85°	2.5	2.5	2.5	2.5	2.5	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	1.3	1.3	1.3	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)