

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: P636795

Luminaire Tested: GWS-SA4B-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9078.1 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

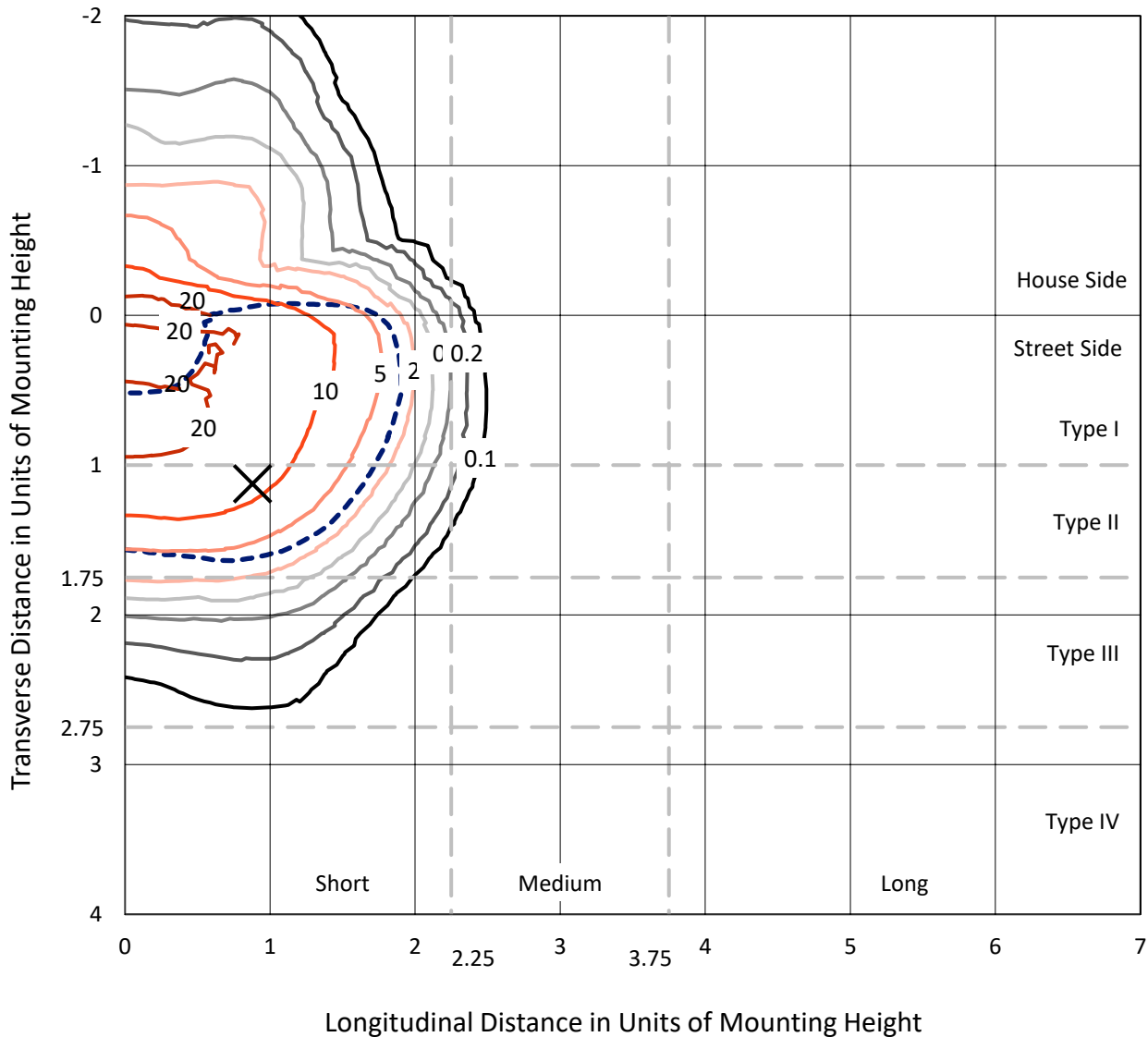
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

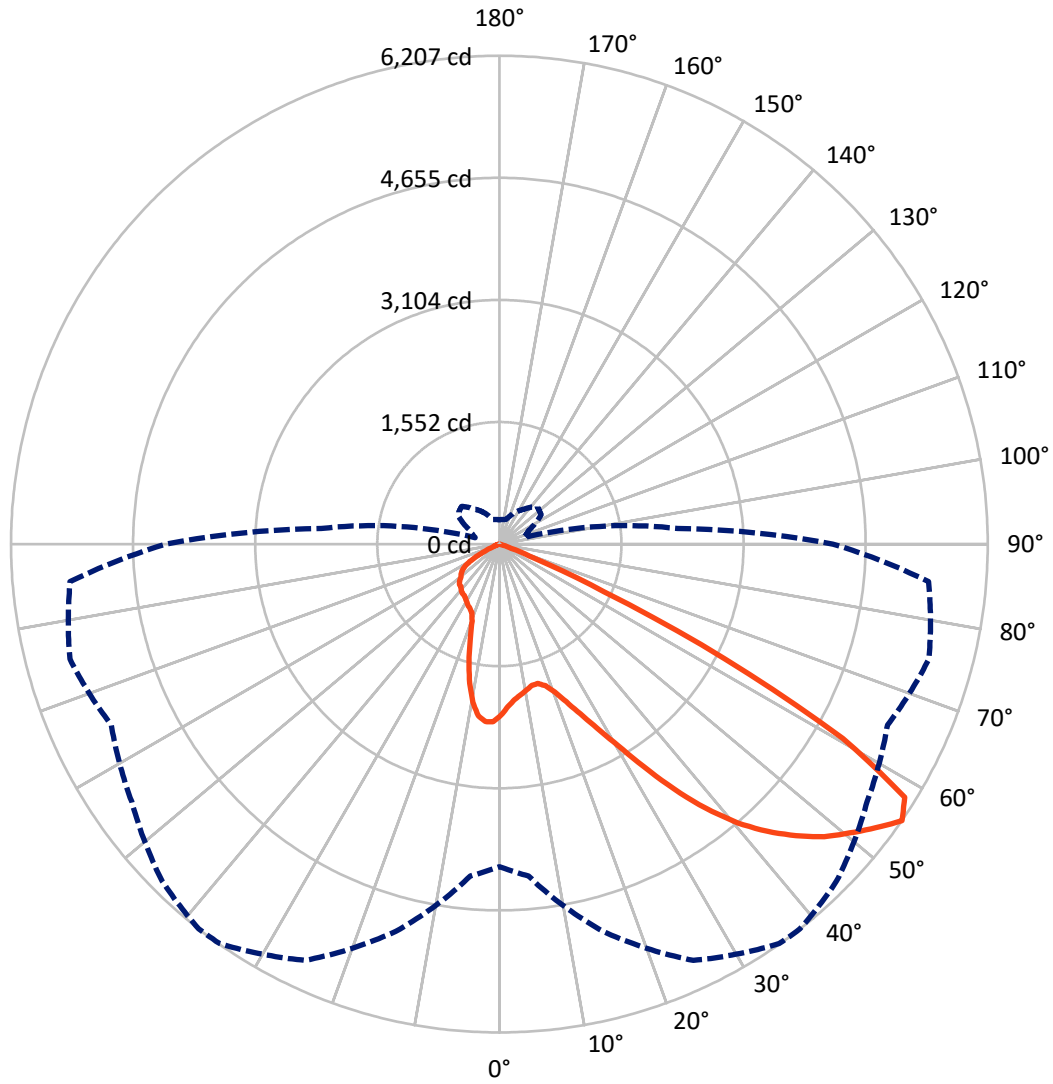
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1768.7	0.0	1768.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7309.4	0.0	7309.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	9078.1	0.0	9078.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	2.2
10°-20°	541.9	6.0
20°-30°	929.9	10.2
30°-40°	1542.4	17.0
40°-50°	2267.3	25.0
50°-60°	2649.5	29.2
60°-70°	898.1	9.9
70°-80°	45.9	0.5
80°-90°	1.8	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°	9078.1	100.0
0°-180°	9078.1	100.0

Coefficient of Utilization



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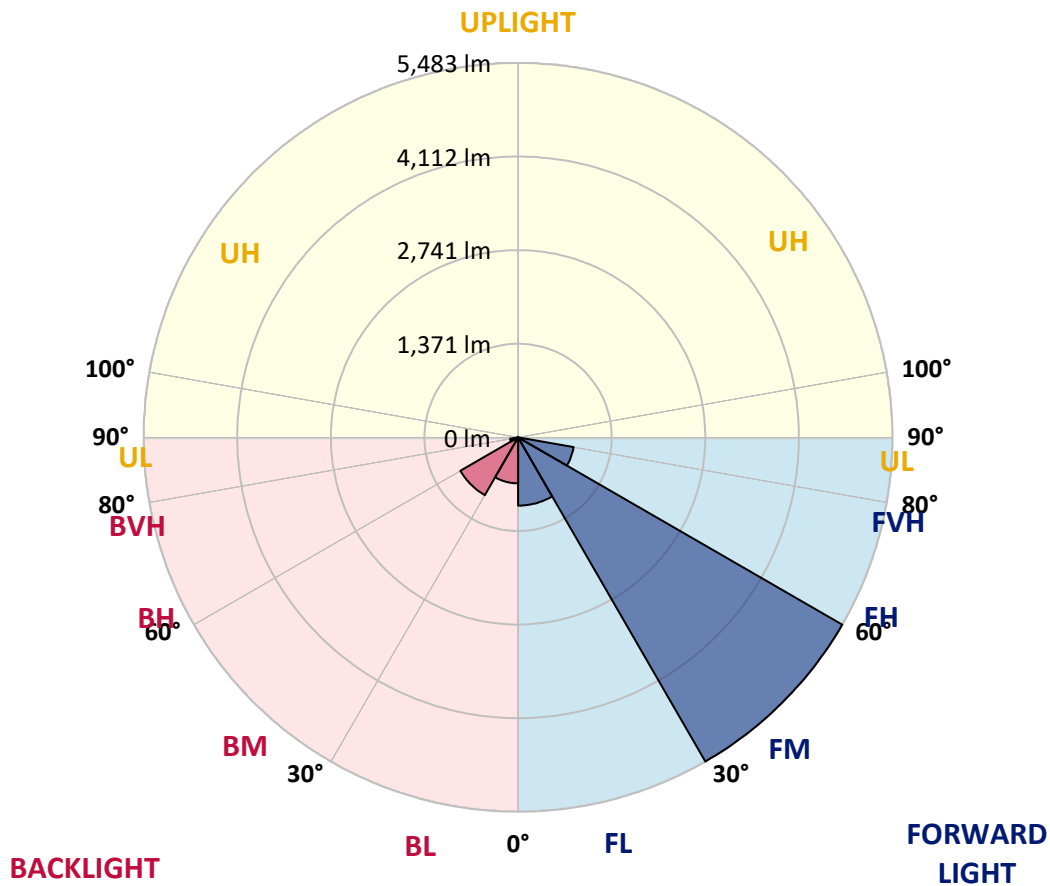
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.3	11.0			
FM (30°-60°)	5482.9	60.4			
FH (60°-80°)	826.2	9.1			G1/1800
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	673.9	7.4	B2/1000		
BM (30°-60°)	976.2	10.8	B1/1000		
BH (60°-80°)	117.7	1.3	B1/500		G1/500
BVH (80°-90°)	0.8	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°	38°	45°	55°	65°	75°	85°
0°	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0
2.5°	2027.6	2023.4	2031.7	2048.3	2063.9	2069.1	2084.6	2106.4	2119.9	2152.1	2178.0
5°	1936.3	1934.2	1942.5	1957.0	1977.8	1985.0	2008.9	2045.2	2081.5	2137.6	2192.6
7.5°	1853.2	1852.2	1864.7	1896.8	1926.9	1936.3	1965.3	2009.9	2058.7	2144.8	2225.8
10°	1744.3	1745.3	1769.2	1814.9	1869.9	1888.5	1935.2	1999.6	2062.9	2173.9	2286.0
12.5°	1709.0	1711.1	1723.5	1758.8	1819.0	1842.9	1908.2	2005.8	2086.7	2215.4	2363.8
15°	1795.1	1795.1	1784.8	1788.9	1815.9	1837.7	1906.2	2026.5	2127.2	2265.2	2440.6
17.5°	1962.2	1956.0	1930.0	1894.8	1885.4	1892.7	1947.7	2071.2	2184.3	2323.3	2527.7
20°	2188.4	2190.5	2139.6	2066.0	2006.8	2005.8	2039.0	2150.0	2266.2	2392.8	2622.2
22.5°	2462.4	2454.1	2386.6	2286.0	2183.2	2174.9	2188.4	2270.4	2384.5	2502.8	2738.4
25°	2779.9	2775.7	2680.3	2545.4	2409.4	2389.7	2389.7	2470.7	2553.7	2659.5	2877.4
27.5°	3111.9	3111.9	3019.6	2863.9	2683.4	2648.1	2642.9	2738.4	2793.4	2814.1	2994.7
30°	3453.3	3449.2	3357.8	3198.0	3005.0	2968.7	2954.2	3024.8	3064.2	3001.9	3141.0
32.5°	3799.9	3807.2	3714.8	3566.4	3394.2	3370.3	3325.7	3325.7	3357.8	3270.7	3371.3
35°	4172.4	4170.3	4097.7	3997.0	3849.7	3822.7	3749.0	3633.9	3682.6	3644.2	3689.9
37.5°	4501.3	4516.9	4481.6	4406.9	4287.6	4260.6	4139.2	3930.6	3968.0	4028.2	4068.6
40°	4835.5	4847.9	4883.2	4859.3	4708.9	4659.1	4443.2	4100.8	4142.3	4348.8	4465.0
42.5°	5163.4	5169.6	5241.2	5280.6	5079.3	4992.2	4673.6	4204.6	4248.2	4599.9	4803.3
45°	5371.9	5385.4	5503.7	5624.1	5406.2	5286.8	4873.9	4337.4	4356.1	4774.2	5053.4
47.5°	5363.6	5394.8	5616.8	5835.8	5687.4	5558.7	5114.6	4550.1	4519.0	4938.2	5218.4
50°	5196.6	5233.9	5552.5	5900.1	5889.7	5770.4	5382.3	4858.3	4760.8	5083.5	5239.1
52.5°	4850.0	4957.9	5439.4	5908.4	6052.6	5992.5	5713.3	5273.4	5087.6	5292.0	5272.3
55°	4100.8	4233.6	5095.9	5837.8	6200.0	6207.2	6060.9	5706.1	5442.5	5651.1	5476.7
57.5°	3113.0	3218.8	3922.3	5196.6	5956.1	6075.5	6195.8	5934.3	5661.4	5895.9	5524.5
60°	1876.1	1998.5	2456.1	3813.4	4810.6	5013.9	5486.1	5435.2	5106.3	5206.9	4530.4
62.5°	760.6	824.9	1134.2	2101.2	3027.9	3217.8	3670.2	3747.0	3666.0	3563.3	2747.7
65°	278.1	304.0	454.5	868.5	1392.5	1462.1	1700.7	1836.6	1948.7	1659.2	1022.1
67.5°	172.3	188.9	295.7	446.2	506.4	471.1	479.4	571.7	545.8	337.2	182.6
70°	127.6	141.1	231.4	309.2	204.4	157.7	106.9	114.1	102.7	90.3	89.2
72.5°	88.2	100.7	173.3	182.6	78.9	56.0	39.4	55.0	62.3	61.2	63.3
75°	58.1	67.4	109.0	71.6	19.7	15.6	13.5	29.1	37.4	37.4	38.4
77.5°	34.2	39.4	38.4	14.5	4.2	4.2	3.1	5.2	8.3	9.3	11.4
80°	4.2	3.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1
82.5°	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1
85°	0.0	0.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	3.1	3.1
87.5°	0.0	0.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	3.1	3.1
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°	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0
2.5°	2197.8	2190.5	2220.6	2242.4	2260.0	2268.3	2256.9	2255.9	2255.9	2233.0	2226.8
5°	2223.7	2226.8	2269.3	2288.0	2291.1	2280.8	2254.8	2237.2	2226.8	2202.9	2189.4
7.5°	2273.5	2283.9	2324.3	2321.2	2293.2	2245.5	2177.0	2124.1	2089.8	2052.5	2029.7
10°	2345.1	2364.8	2389.7	2346.1	2256.9	2135.5	1994.4	1893.7	1833.5	1791.0	1765.0
12.5°	2432.3	2452.0	2443.7	2340.9	2155.2	1938.3	1756.7	1611.5	1542.0	1503.6	1476.6
15°	2520.5	2532.9	2479.0	2278.7	1975.7	1684.1	1481.8	1337.5	1252.4	1221.3	1198.5
17.5°	2610.7	2607.6	2485.2	2156.2	1736.0	1397.7	1198.5	1099.9	1076.0	1070.9	1068.8
20°	2705.2	2677.1	2460.3	1980.9	1447.5	1114.4	1001.3	1007.6	1051.1	1071.9	1076.0
22.5°	2813.1	2742.5	2398.0	1743.3	1152.8	928.7	940.1	1001.3	1060.5	1088.5	1092.6
25°	2928.3	2802.7	2294.3	1438.2	909.0	854.0	921.4	992.0	1055.3	1089.5	1093.7
27.5°	3004.0	2817.2	2124.1	1131.0	780.3	824.9	896.5	964.0	1029.4	1066.7	1071.9
30°	3086.0	2811.0	1892.7	871.6	736.7	800.0	862.3	923.5	983.7	1025.2	1029.4
32.5°	3206.4	2806.9	1610.4	707.7	719.1	780.3	826.0	876.8	918.3	942.2	939.1
35°	3364.1	2801.7	1281.5	638.2	708.7	764.8	801.1	824.9	779.3	764.8	767.9
37.5°	3566.4	2814.1	1004.4	609.1	705.6	760.6	791.7	723.2	652.7	625.7	621.6
40°	3790.5	2846.3	765.8	597.7	716.0	771.0	756.4	643.3	556.2	503.3	491.8
42.5°	4015.7	2881.6	606.0	593.5	733.6	800.0	698.3	585.2	454.5	424.4	420.2
45°	4182.8	2875.3	524.0	586.3	749.2	816.6	682.8	502.2	405.7	392.2	393.3
47.5°	4266.8	2806.9	479.4	569.7	755.4	800.0	644.4	468.0	372.5	387.0	399.5
50°	4222.2	2629.4	437.9	537.5	741.9	778.2	583.2	442.0	355.9	416.1	444.1
52.5°	4168.3	2411.5	392.2	487.7	709.8	748.1	559.3	434.8	345.5	401.6	422.3
55°	4239.9	2273.5	317.5	410.9	646.5	677.6	540.6	433.7	321.7	312.3	309.2
57.5°	4139.2	1998.5	227.2	295.7	496.0	536.5	527.1	426.5	285.4	284.3	288.5
60°	3199.1	1219.2	155.6	187.8	304.0	342.4	478.4	407.8	245.9	226.2	227.2
62.5°	1818.0	518.8	106.9	116.2	155.6	184.7	365.3	370.4	227.2	215.8	227.2
65°	633.0	185.7	83.0	77.8	86.1	98.6	209.6	286.4	206.5	186.8	188.9
67.5°	130.7	92.4	73.7	64.3	64.3	64.3	106.9	178.5	170.2	148.4	150.5
70°	83.0	78.9	64.3	55.0	52.9	48.8	61.2	98.6	117.3	107.9	109.0
72.5°	61.2	60.2	50.8	44.6	39.4	35.3	38.4	48.8	60.2	62.3	63.3
75°	37.4	38.4	33.2	28.0	24.9	21.8	22.8	22.8	22.8	20.8	22.8
77.5°	11.4	12.5	10.4	8.3	7.3	7.3	7.3	6.2	5.2	3.1	3.1
80°	3.1	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	0.0	0.0
82.5°	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0
85°	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	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)