

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: P635738

Luminaire Tested: GWS-SA3E-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-735-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12883.9 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

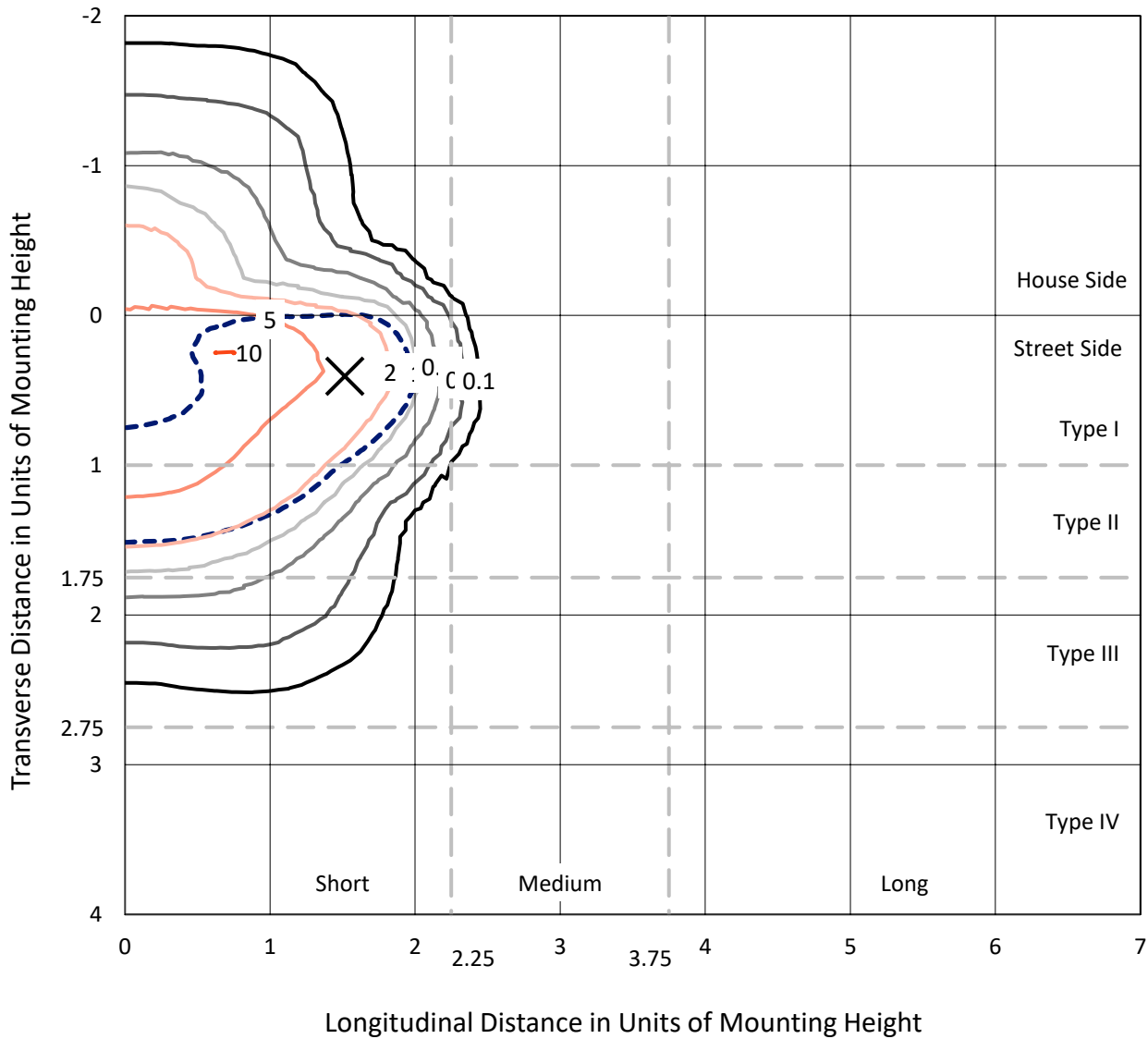
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

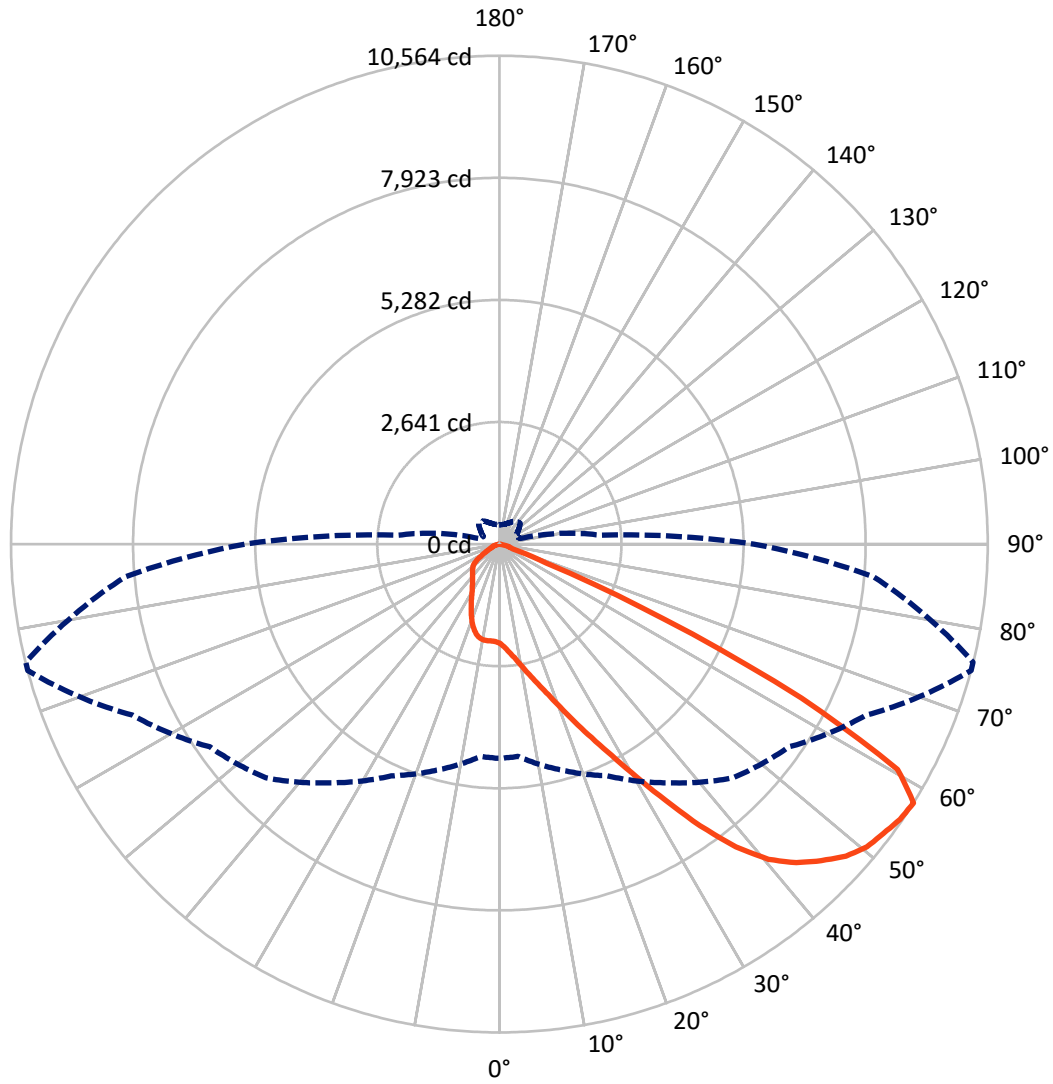
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2104.6	0.0	2104.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	10779.3	0.0	10779.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	12883.9	0.0	12883.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	1.7
10°-20°	710.3	5.5
20°-30°	1300.8	10.1
30°-40°	2158.1	16.8
40°-50°	3295.9	25.6
50°-60°	3703.5	28.7
60°-70°	1366.0	10.6
70°-80°	130.6	1.0
80°-90°	0.1	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°	12883.9	100.0
0°-180°	12883.9	100.0

Coefficient of Utilization



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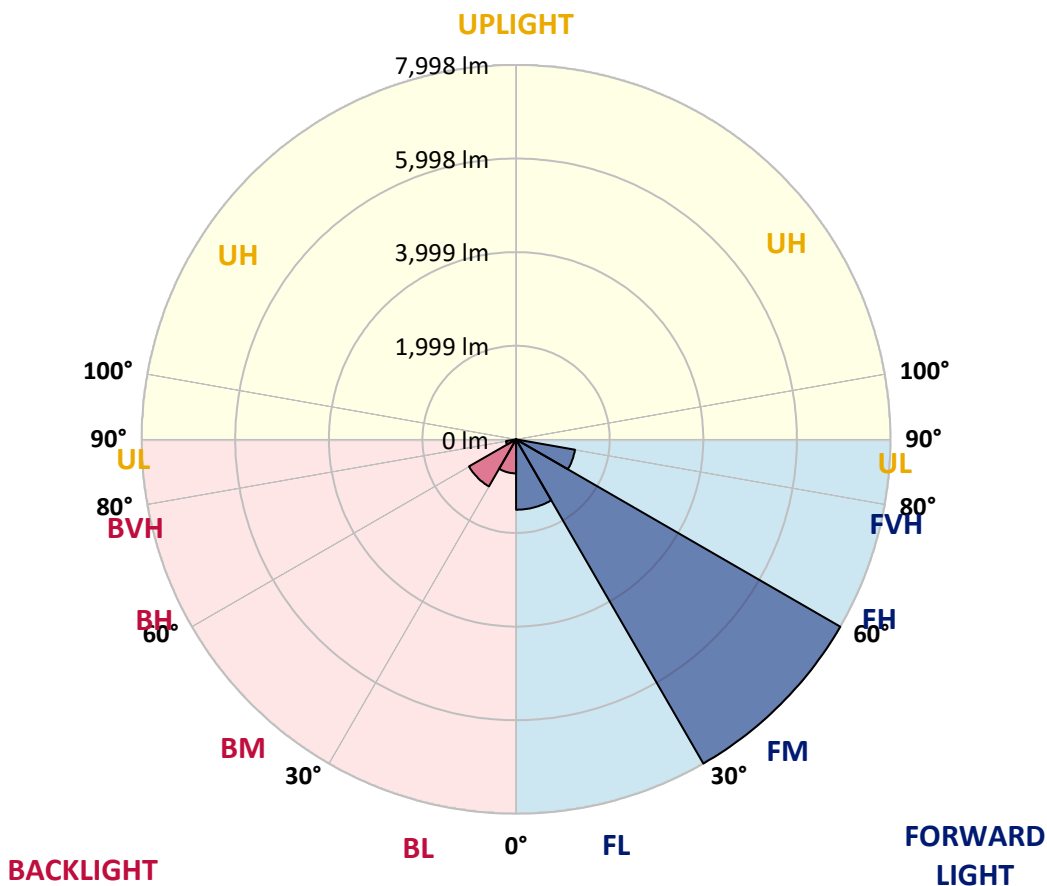
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1503.5	11.7			
FM (30°-60°)	7997.7	62.1			
FH (60°-80°)	1278.0	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	726.2	5.6	B2/1000		
BM (30°-60°)	1159.8	9.0	B2/2500		
BH (60°-80°)	218.6	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	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°	55°	65°	75°	76°	85°
0°	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9
2.5°	2400.7	2425.6	2417.9	2402.3	2393.0	2360.3	2340.1	2281.0	2239.0	2234.4	2195.5
5°	2704.0	2699.3	2693.1	2674.4	2658.9	2607.5	2546.9	2447.4	2358.8	2347.9	2265.5
7.5°	2870.3	2873.4	2876.5	2873.4	2862.5	2823.7	2756.8	2640.2	2504.9	2495.6	2365.0
10°	2938.7	2945.0	2960.5	2990.0	3016.5	3013.4	2974.5	2854.8	2688.4	2672.9	2497.2
12.5°	2971.4	2979.2	3004.0	3060.0	3131.5	3187.5	3193.7	3086.5	2903.0	2878.1	2654.2
15°	3016.5	3024.3	3055.4	3128.4	3232.6	3343.0	3414.5	3346.1	3140.9	3114.4	2826.8
17.5°	3036.7	3047.6	3092.7	3189.1	3324.4	3493.8	3655.5	3649.3	3422.3	3402.1	3027.4
20°	3075.6	3083.3	3123.8	3227.9	3391.2	3635.3	3907.4	4005.4	3765.9	3736.4	3269.9
22.5°	3198.4	3201.5	3220.2	3285.5	3437.9	3738.0	4164.0	4420.5	4171.8	4132.9	3542.0
25°	3399.0	3397.4	3405.2	3416.1	3528.0	3842.1	4411.2	4888.6	4636.7	4594.7	3849.9
27.5°	3654.0	3654.0	3672.6	3641.5	3686.6	3971.2	4655.3	5426.6	5177.8	5118.7	4187.3
30°	3954.1	3952.5	3996.1	3946.3	3960.3	4174.9	4918.1	6012.8	5830.8	5757.8	4576.0
32.5°	4361.5	4352.1	4401.9	4333.5	4286.8	4482.7	5238.4	6625.4	6612.9	6501.0	5064.3
35°	4876.1	4860.6	4876.1	4809.3	4725.3	4913.4	5658.2	7236.4	7480.6	7362.4	5645.8
37.5°	5387.7	5437.4	5454.5	5339.5	5271.1	5459.2	6163.6	7783.8	8309.3	8186.5	6250.6
40°	5991.0	5975.4	6034.5	5905.5	5861.9	6070.3	6658.0	8191.1	8965.5	8848.9	6788.6
42.5°	6435.7	6463.7	6536.7	6465.2	6431.0	6626.9	7073.2	8429.0	9421.1	9306.0	7172.7
45°	6969.0	6989.2	7017.2	6958.1	6922.4	7115.2	7373.3	8533.2	9767.8	9643.4	7430.8
47.5°	7545.9	7561.4	7561.4	7440.1	7325.1	7404.4	7573.9	8592.3	10086.6	9966.8	7622.1
50°	7959.5	7967.2	8035.7	7950.1	7699.8	7577.0	7665.6	8649.8	10298.0	10186.1	7684.3
52.5°	7592.5	7583.2	7808.6	7985.9	8052.8	7808.6	7824.2	8733.8	10400.6	10304.2	7734.0
55°	6393.7	6378.2	6695.3	7126.1	7715.4	8027.9	8015.4	8783.6	10514.2	10455.1	7914.4
57.5°	4635.1	4608.7	5050.3	5529.2	6302.0	7149.4	7646.9	8755.6	10563.9	10559.2	8124.3
60°	2786.4	2764.6	3181.3	3685.1	4282.2	5134.2	5959.9	7842.9	9898.4	9907.7	7578.5
62.5°	1715.0	1735.3	2111.5	2368.1	2590.4	2847.0	3324.4	5275.7	7332.9	7393.5	5325.5
65°	1153.7	1169.3	1517.6	1841.0	1841.0	1505.1	1292.1	2522.0	3912.1	3809.5	2518.9
67.5°	774.3	791.4	1066.7	1444.5	1498.9	1049.5	524.0	752.6	1090.0	1057.3	623.5
70°	455.6	474.2	710.6	990.5	1091.5	730.8	349.8	318.8	309.4	300.1	242.6
72.5°	203.7	211.5	362.3	503.8	460.2	307.9	247.2	255.0	241.0	236.3	197.5
75°	62.2	65.3	93.3	108.8	110.4	110.4	149.3	200.6	189.7	191.3	152.4
77.5°	15.5	15.5	24.9	23.3	12.4	10.9	28.0	45.1	46.6	42.0	31.1
80°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9
2.5°	2178.4	2138.0	2111.5	2074.2	2047.8	2019.8	1994.9	1974.7	1963.8	1960.7	1962.3
5°	2228.2	2164.4	2102.2	2030.7	1980.9	1934.3	1897.0	1867.4	1853.4	1848.8	1848.8
7.5°	2304.3	2215.7	2105.3	1993.4	1909.4	1836.3	1792.8	1760.1	1747.7	1744.6	1735.3
10°	2403.9	2282.6	2100.7	1926.5	1808.3	1732.1	1701.0	1691.7	1696.4	1697.9	1696.4
12.5°	2523.6	2352.5	2071.1	1828.5	1701.0	1654.4	1657.5	1682.4	1710.4	1724.4	1727.5
15°	2651.1	2416.3	2004.3	1711.9	1609.3	1607.8	1652.8	1710.4	1764.8	1788.1	1794.3
17.5°	2794.1	2467.6	1901.6	1587.5	1530.0	1575.1	1656.0	1744.6	1817.7	1856.5	1864.3
20°	2951.2	2509.6	1771.0	1470.9	1460.0	1540.9	1652.8	1761.7	1851.9	1895.4	1903.2
22.5°	3114.4	2539.1	1620.2	1363.6	1396.3	1502.0	1623.3	1729.0	1814.6	1864.3	1870.5
25°	3301.0	2542.2	1466.3	1273.5	1337.2	1449.2	1551.8	1638.9	1710.4	1753.9	1758.6
27.5°	3464.3	2504.9	1329.4	1200.4	1282.8	1383.9	1452.3	1500.5	1550.2	1575.1	1576.7
30°	3652.4	2439.6	1200.4	1141.3	1226.8	1303.0	1337.2	1348.1	1352.8	1357.4	1351.2
32.5°	3876.3	2360.3	1104.0	1083.8	1163.1	1214.4	1223.7	1201.9	1175.5	1138.2	1128.8
35°	4151.6	2288.8	1024.7	1027.8	1093.1	1124.2	1116.4	1069.8	1018.5	973.4	965.6
37.5°	4450.1	2228.2	964.0	973.4	1016.9	1038.7	1015.3	964.0	940.7	901.8	903.4
40°	4714.4	2178.4	909.6	918.9	939.2	959.4	922.0	887.8	931.4	928.3	931.4
42.5°	4902.6	2136.4	863.0	858.3	872.3	886.3	858.3	841.2	914.3	894.1	904.9
45°	5013.0	2097.5	824.1	796.1	817.9	842.7	824.1	802.3	827.2	733.9	726.1
47.5°	5087.6	2075.8	789.9	735.5	774.3	817.9	779.0	726.1	690.4	609.5	603.3
50°	5095.4	2064.9	749.5	673.3	723.0	769.7	724.6	651.5	600.2	564.4	559.8
52.5°	5135.8	2086.7	693.5	594.0	648.4	723.0	691.9	618.8	548.9	517.8	511.6
55°	5316.2	2178.4	600.2	485.1	564.4	687.3	665.5	552.0	485.1	466.5	461.8
57.5°	5502.7	2197.1	472.7	384.1	491.3	635.9	608.0	508.4	443.1	421.4	416.7
60°	5031.6	1809.9	354.5	317.2	433.8	587.7	562.9	482.0	405.8	379.4	374.7
62.5°	3305.7	978.0	281.4	269.0	365.4	497.6	513.1	435.4	362.3	334.3	332.7
65°	1523.8	454.0	216.1	213.0	286.1	396.5	441.6	380.9	306.3	281.4	281.4
67.5°	415.2	225.5	169.5	157.0	194.4	265.9	321.9	284.5	217.7	188.1	186.6
70°	206.8	181.9	152.4	135.3	139.9	164.8	189.7	158.6	110.4	90.2	88.6
72.5°	169.5	149.3	129.1	115.1	105.7	101.1	98.0	79.3	51.3	38.9	37.3
75°	125.9	107.3	91.7	74.6	63.8	59.1	52.9	38.9	21.8	12.4	10.9
77.5°	28.0	26.4	24.9	18.7	17.1	14.0	10.9	7.8	3.1	0.0	0.0
80°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)