

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: P637718

Luminaire Tested: GWS-SA4D-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637718
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-SA4D-735-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14347.1 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

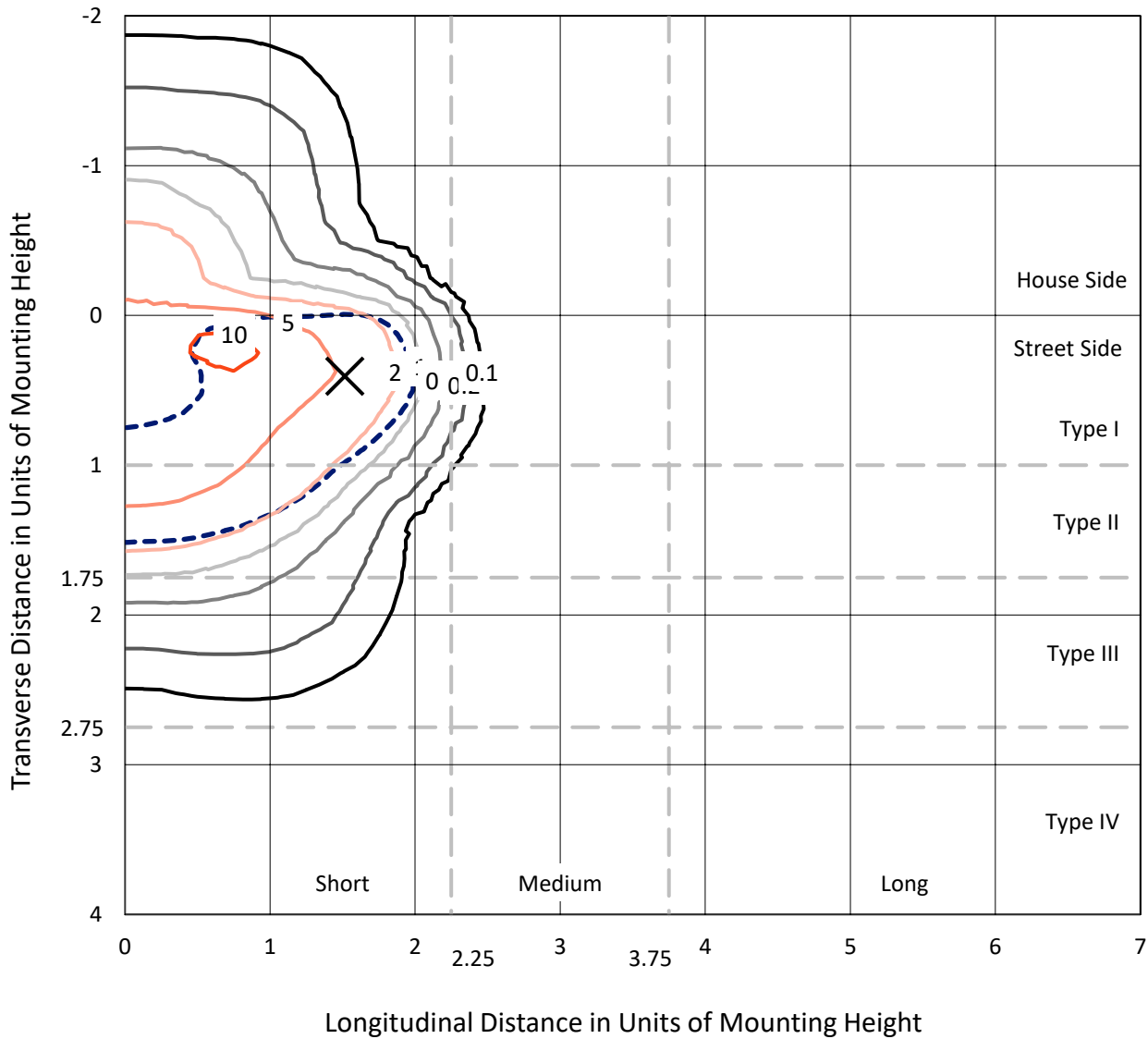
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

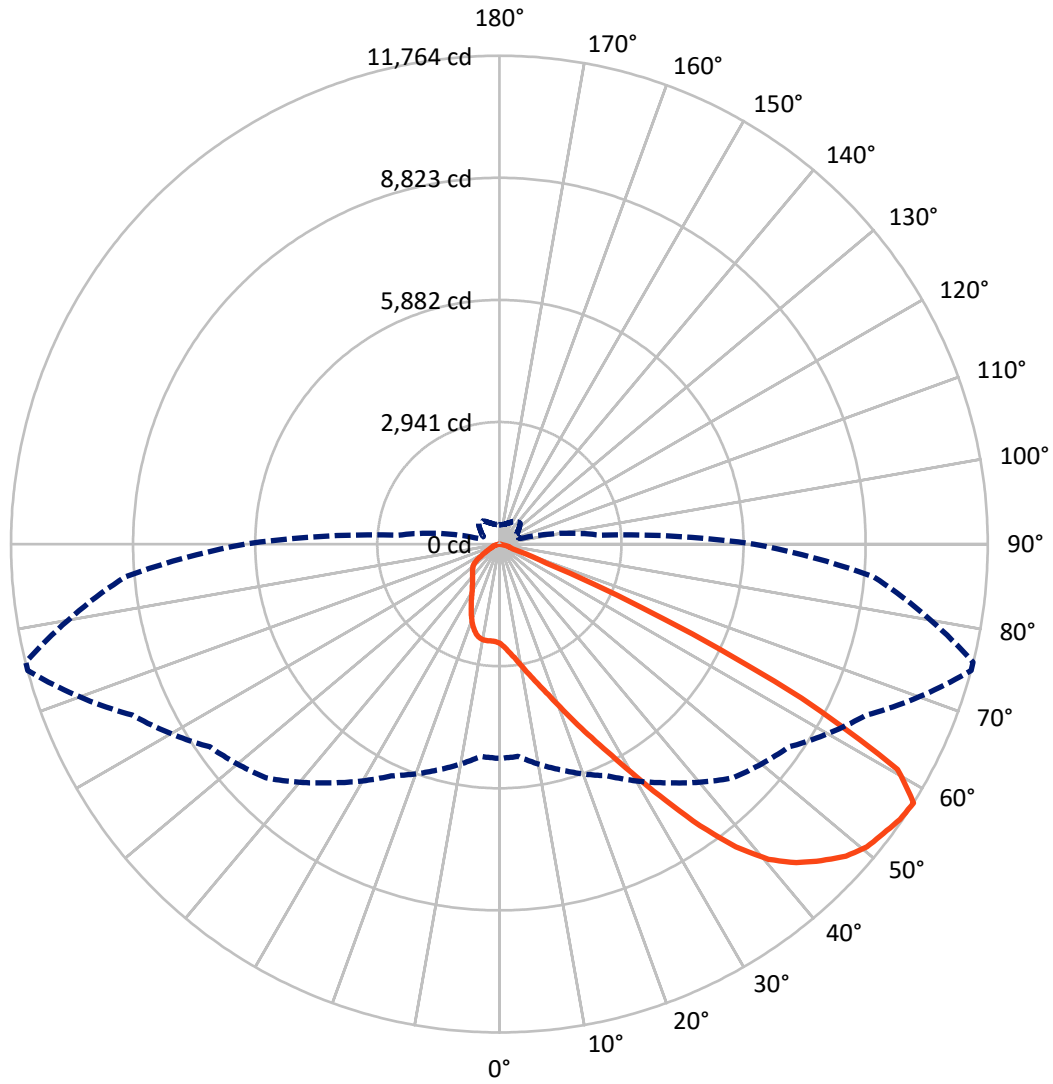
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.2 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	2343.6	0.0	2343.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	12003.5	0.0	12003.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	14347.1	0.0	14347.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	1.7
10°-20°	791.0	5.5
20°-30°	1448.5	10.1
30°-40°	2403.2	16.8
40°-50°	3670.2	25.6
50°-60°	4124.1	28.7
60°-70°	1521.2	10.6
70°-80°	145.4	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°	14347.1	100.0
0°-180°	14347.1	100.0

Coefficient of Utilization



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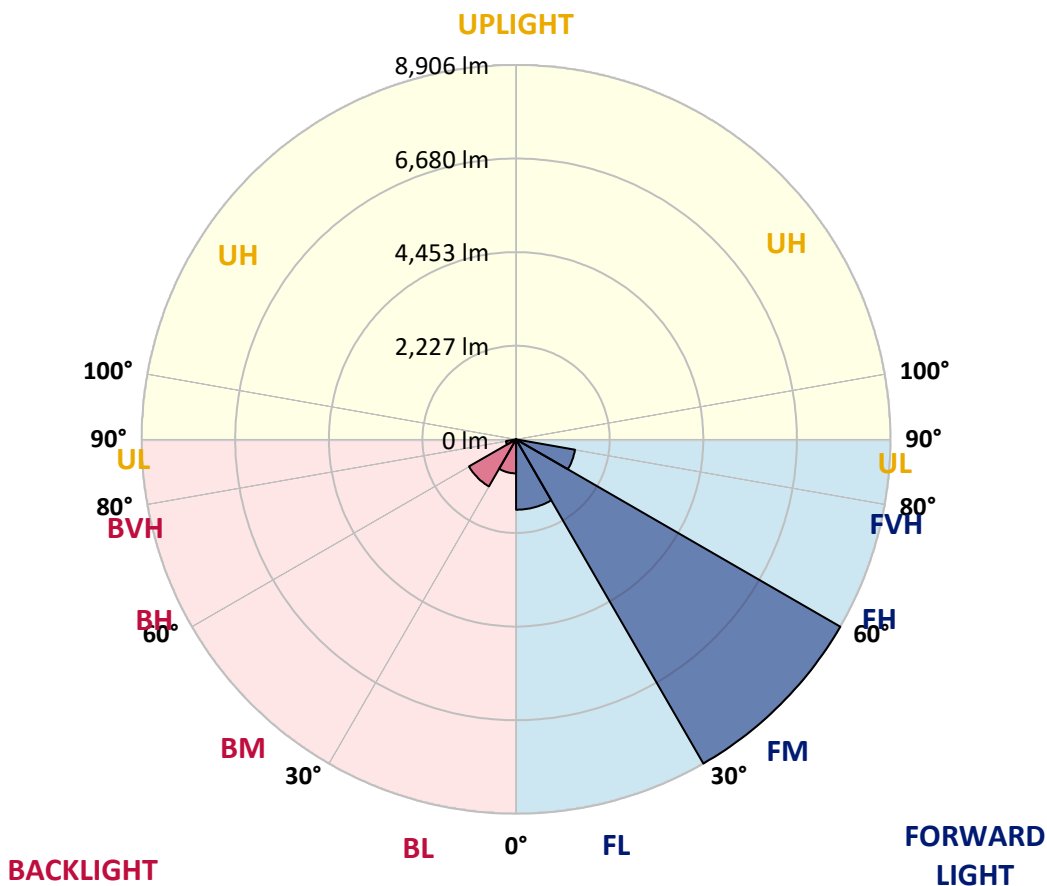
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1674.3	11.7			
FM (30°-60°)	8906.0	62.1			
FH (60°-80°)	1423.2	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	808.7	5.6	B2/1000		
BM (30°-60°)	1291.5	9.0	B2/2500		
BH (60°-80°)	243.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	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°	2392.9	2392.9	2392.9	2392.9	2392.9	2392.9	2392.9	2392.9	2392.9	2392.9	2392.9
2.5°	2673.4	2701.1	2692.4	2675.1	2664.7	2628.4	2605.9	2540.1	2493.3	2488.1	2444.8
5°	3011.0	3005.8	2998.9	2978.1	2960.8	2903.7	2836.2	2725.3	2626.6	2614.5	2522.8
7.5°	3196.3	3199.8	3203.2	3199.8	3187.6	3144.4	3069.9	2940.0	2789.4	2779.0	2633.6
10°	3272.5	3279.4	3296.7	3329.6	3359.1	3355.6	3312.3	3179.0	2993.7	2976.4	2780.7
12.5°	3308.8	3317.5	3345.2	3407.5	3487.2	3549.5	3556.4	3437.0	3232.7	3205.0	2955.6
15°	3359.1	3367.7	3402.3	3483.7	3599.7	3722.7	3802.3	3726.1	3497.6	3468.1	3147.8
17.5°	3381.6	3393.7	3443.9	3551.3	3701.9	3890.6	4070.7	4063.8	3811.0	3788.5	3371.2
20°	3424.9	3433.5	3478.5	3594.5	3776.3	4048.2	4351.2	4460.3	4193.6	4160.7	3641.3
22.5°	3561.6	3565.1	3585.9	3658.6	3828.3	4162.5	4636.9	4922.6	4645.5	4602.3	3944.3
25°	3785.0	3783.3	3791.9	3804.0	3928.7	4278.5	4912.2	5443.8	5163.3	5116.5	4287.1
27.5°	4069.0	4069.0	4089.7	4055.1	4105.3	4422.2	5184.0	6042.8	5765.8	5700.0	4662.9
30°	4403.1	4401.4	4449.9	4394.5	4410.1	4649.0	5476.7	6695.6	6493.0	6411.6	5095.7
32.5°	4856.8	4846.4	4901.8	4825.6	4773.7	4991.8	5833.3	7377.8	7364.0	7239.3	5639.4
35°	5429.9	5412.6	5429.9	5355.4	5261.9	5471.5	6300.8	8058.3	8330.1	8198.5	6287.0
37.5°	5999.6	6055.0	6074.0	5945.9	5869.7	6079.2	6863.6	8667.8	9253.0	9116.2	6960.5
40°	6671.4	6654.1	6719.8	6576.1	6527.7	6759.7	7414.2	9121.4	9983.7	9853.8	7559.6
42.5°	7166.6	7197.7	7279.1	7199.5	7161.4	7379.5	7876.5	9386.3	10491.0	10362.9	7987.3
45°	7760.5	7783.0	7814.1	7748.3	7708.5	7923.2	8210.6	9502.3	10877.1	10738.6	8274.7
47.5°	8402.8	8420.2	8420.2	8285.1	8157.0	8245.3	8434.0	9568.1	11232.1	11098.7	8487.7
50°	8863.4	8872.1	8948.3	8853.0	8574.3	8437.5	8536.2	9632.2	11467.5	11342.9	8556.9
52.5°	8454.8	8444.4	8695.5	8892.8	8967.3	8695.5	8712.8	9725.7	11581.8	11474.5	8612.3
55°	7119.8	7102.5	7455.7	7935.3	8591.6	8939.6	8925.7	9781.1	11708.2	11642.4	8813.2
57.5°	5161.5	5132.1	5623.8	6157.1	7017.7	7961.3	8515.4	9749.9	11763.6	11758.4	9046.9
60°	3102.8	3078.6	3542.6	4103.6	4768.5	5717.3	6636.7	8733.6	11022.6	11032.9	8439.2
62.5°	1909.8	1932.3	2351.3	2637.0	2884.6	3170.3	3701.9	5874.9	8165.6	8233.2	5930.3
65°	1284.8	1302.1	1689.9	2050.1	2050.1	1676.1	1438.9	2808.5	4356.4	4242.1	2805.0
67.5°	862.3	881.3	1187.8	1608.5	1669.1	1168.7	583.5	838.0	1213.8	1177.4	694.3
70°	507.3	528.1	791.3	1102.9	1215.5	813.8	389.6	355.0	344.6	334.2	270.1
72.5°	226.8	235.5	403.4	561.0	512.5	342.8	275.3	284.0	268.4	263.2	219.9
75°	69.3	72.7	103.9	121.2	122.9	122.9	166.2	223.4	211.2	213.0	169.7
77.5°	17.3	17.3	27.7	26.0	13.9	12.1	31.2	50.2	51.9	46.7	34.6
80°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7
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°	2392.9	2392.9	2392.9	2392.9	2392.9	2392.9	2392.9	2392.9	2392.9	2392.9	2392.9
2.5°	2425.8	2380.8	2351.3	2309.8	2280.4	2249.2	2221.5	2199.0	2186.9	2183.4	2185.1
5°	2481.2	2410.2	2341.0	2261.3	2205.9	2154.0	2112.4	2079.5	2063.9	2058.7	2058.7
7.5°	2566.0	2467.3	2344.4	2219.7	2126.2	2044.9	1996.4	1960.0	1946.2	1942.7	1932.3
10°	2676.9	2541.8	2339.2	2145.3	2013.7	1928.9	1894.2	1883.8	1889.0	1890.8	1889.0
12.5°	2810.2	2619.7	2306.3	2036.2	1894.2	1842.3	1845.8	1873.5	1904.6	1920.2	1923.7
15°	2952.2	2690.7	2231.9	1906.4	1792.1	1790.3	1840.6	1904.6	1965.2	1991.2	1998.1
17.5°	3111.5	2747.8	2117.6	1767.8	1703.8	1754.0	1844.0	1942.7	2024.1	2067.4	2076.0
20°	3286.3	2794.6	1972.1	1638.0	1625.9	1715.9	1840.6	1961.8	2062.2	2110.7	2119.3
22.5°	3468.1	2827.5	1804.2	1518.5	1554.9	1672.6	1807.7	1925.4	2020.6	2076.0	2083.0
25°	3675.9	2831.0	1632.8	1418.1	1489.1	1613.7	1728.0	1825.0	1904.6	1953.1	1958.3
27.5°	3857.7	2789.4	1480.4	1336.7	1428.5	1541.0	1617.2	1670.9	1726.3	1754.0	1755.7
30°	4067.2	2716.7	1336.7	1270.9	1366.1	1451.0	1489.1	1501.2	1506.4	1511.6	1504.7
32.5°	4316.6	2628.4	1229.3	1206.8	1295.1	1352.3	1362.7	1338.4	1309.0	1267.4	1257.0
35°	4623.0	2548.7	1141.0	1144.5	1217.2	1251.9	1243.2	1191.3	1134.1	1083.9	1075.2
37.5°	4955.5	2481.2	1073.5	1083.9	1132.4	1156.6	1130.7	1073.5	1047.5	1004.3	1006.0
40°	5249.8	2425.8	1012.9	1023.3	1045.8	1068.3	1026.8	988.7	1037.2	1033.7	1037.2
42.5°	5459.3	2379.0	961.0	955.8	971.4	986.9	955.8	936.7	1018.1	995.6	1007.7
45°	5582.3	2335.8	917.7	886.5	910.8	938.5	917.7	893.4	921.1	817.3	808.6
47.5°	5665.4	2311.5	879.6	819.0	862.3	910.8	867.5	808.6	768.8	678.7	671.8
50°	5674.0	2299.4	834.6	749.7	805.1	857.1	806.9	725.5	668.3	628.5	623.3
52.5°	5719.1	2323.6	772.2	661.4	722.0	805.1	770.5	689.1	611.2	576.6	569.7
55°	5919.9	2425.8	668.3	540.2	628.5	765.3	741.1	614.7	540.2	519.4	514.2
57.5°	6127.7	2446.6	526.4	427.7	547.1	708.2	677.0	566.2	493.5	469.2	464.0
60°	5603.0	2015.4	394.8	353.2	483.1	654.5	626.8	536.8	451.9	422.5	417.3
62.5°	3681.1	1089.1	313.4	299.5	406.9	554.1	571.4	484.8	403.4	372.3	370.5
65°	1696.8	505.6	240.7	237.2	318.6	441.5	491.7	424.2	341.1	313.4	313.4
67.5°	462.3	251.1	188.7	174.9	216.4	296.1	358.4	316.9	242.4	209.5	207.8
70°	230.3	202.6	169.7	150.6	155.8	183.5	211.2	176.6	122.9	100.4	98.7
72.5°	188.7	166.2	143.7	128.1	117.7	112.5	109.1	88.3	57.1	43.3	41.6
75°	140.2	119.5	102.2	83.1	71.0	65.8	58.9	43.3	24.2	13.9	12.1
77.5°	31.2	29.4	27.7	20.8	19.0	15.6	12.1	8.7	3.5	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	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)