

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: P637366

Luminaire Tested: GWS-SA4C-760-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-760-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12693.1 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

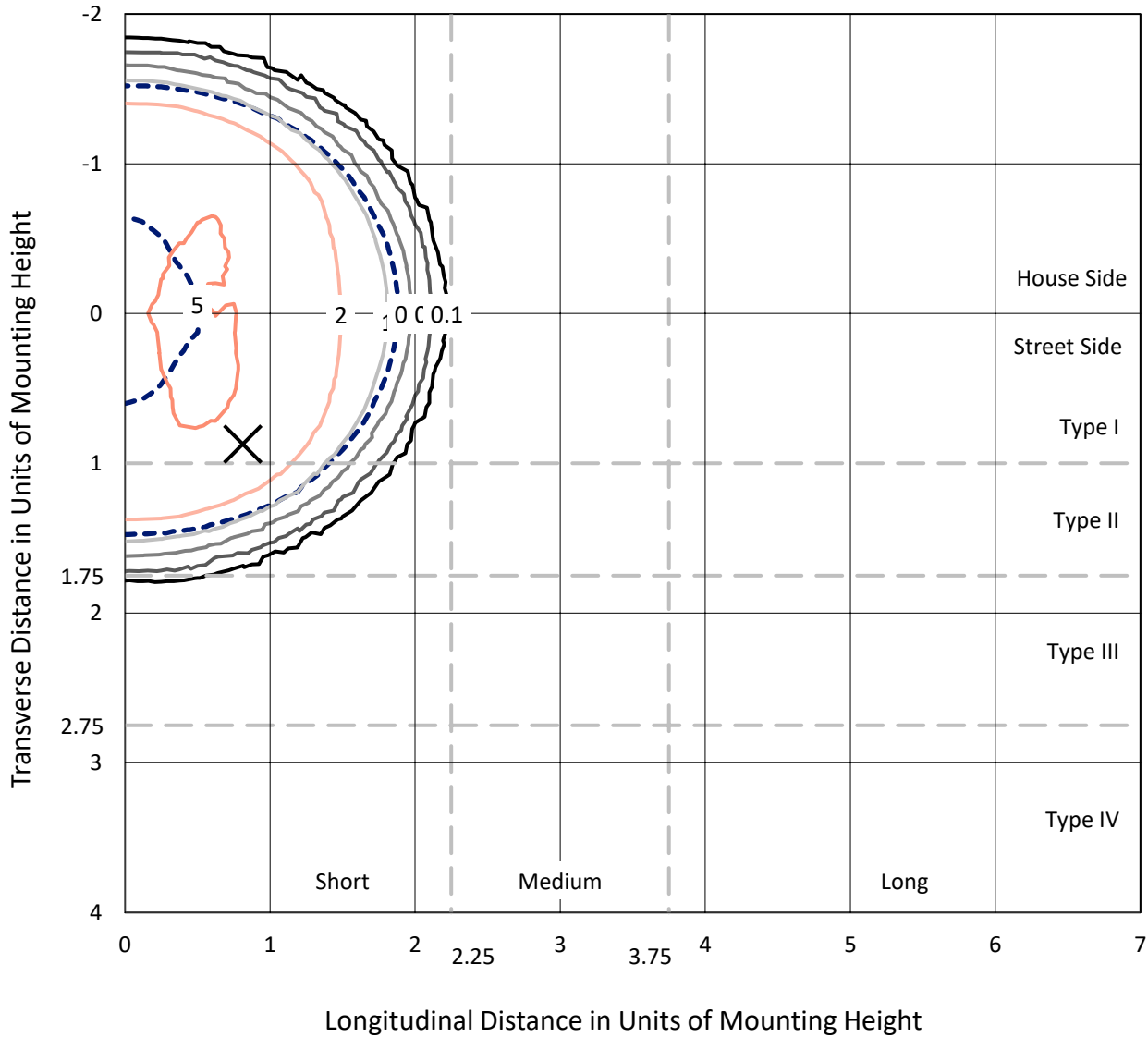
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

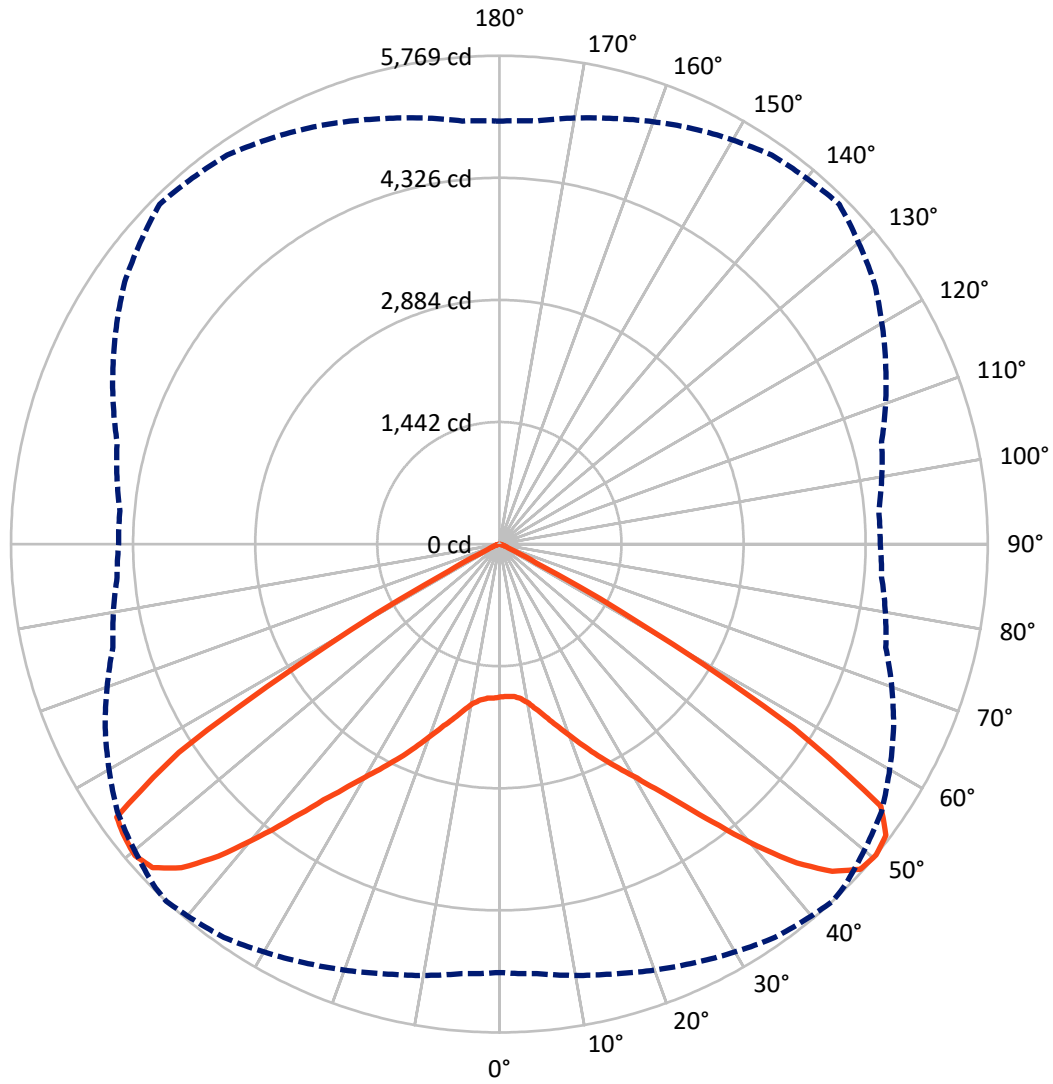
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6346.4	0.0	6346.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6346.7	0.0	6346.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12693.1	0.0	12693.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	1.4
10°-20°	611.8	4.8
20°-30°	1237.8	9.8
30°-40°	2296.6	18.1
40°-50°	3812.2	30.0
50°-60°	3890.5	30.7
60°-70°	638.0	5.0
70°-80°	27.9	0.2
80°-90°	0.4	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°	12693.1	100.0
0°-180°	12693.1	100.0

Coefficient of Utilization



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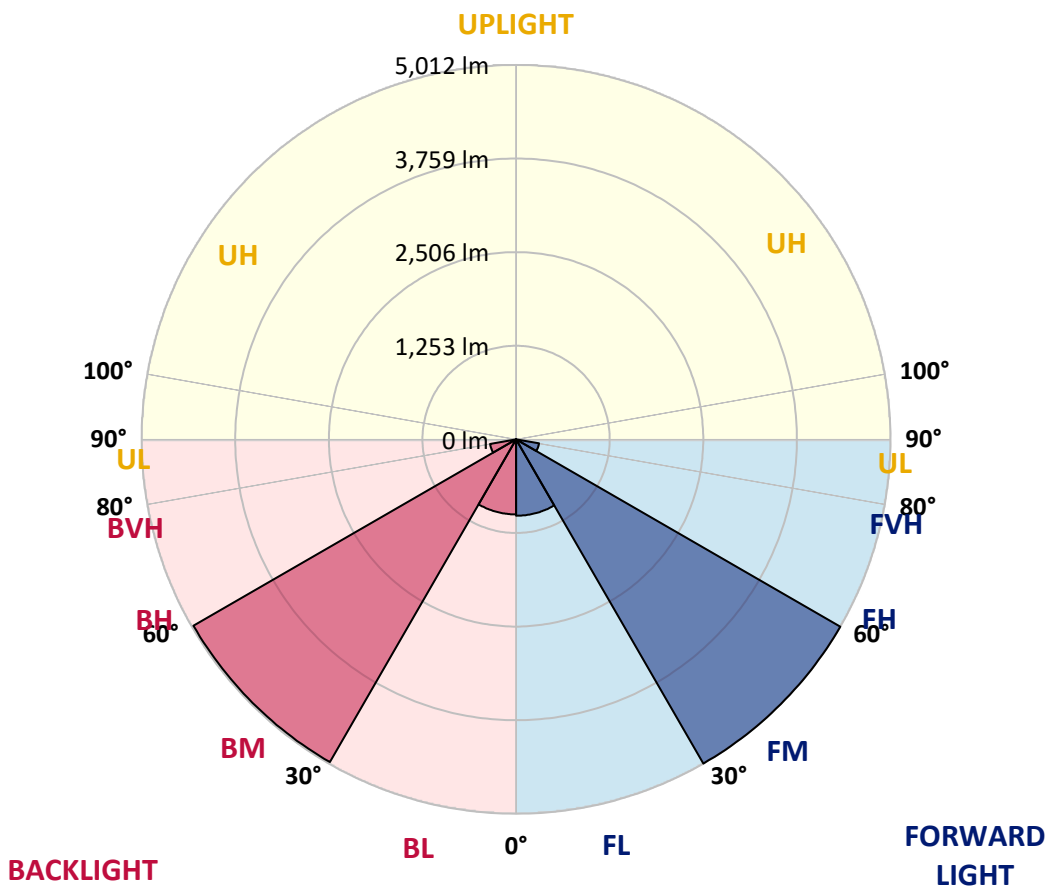
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1022.6	8.1			
FM (30°-60°)	5011.8	39.5			
FH (60°-80°)	312.1	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1004.8	7.9	B3/2500		
BM (30°-60°)	4987.5	39.3	B3/5000		
BH (60°-80°)	353.8	2.8	B1/500		G0/660
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4
2.5°	1771.7	1775.9	1781.5	1787.1	1794.2	1801.2	1805.4	1818.0	1815.2	1826.5	1826.5
5°	1752.0	1756.3	1763.3	1775.9	1791.4	1806.8	1818.0	1843.3	1857.3	1879.8	1888.2
7.5°	1761.9	1767.5	1775.9	1795.6	1819.4	1843.3	1855.9	1896.6	1924.7	1966.8	1990.7
10°	1794.2	1799.8	1813.8	1847.5	1878.4	1912.1	1927.5	1979.5	2024.4	2082.0	2115.7
12.5°	1830.7	1837.7	1865.8	1916.3	1969.6	2014.6	2035.6	2093.2	2139.5	2204.1	2257.4
15°	1868.6	1879.8	1923.3	1997.7	2073.5	2133.9	2156.4	2218.1	2264.5	2333.3	2393.6
17.5°	1957.0	1969.6	2018.8	2098.8	2202.7	2272.9	2292.5	2357.1	2392.2	2438.5	2501.7
20°	2067.9	2091.8	2152.2	2249.0	2362.7	2430.1	2444.2	2507.3	2504.5	2524.2	2578.9
22.5°	2205.5	2222.3	2288.3	2403.4	2531.2	2605.6	2637.9	2664.6	2629.5	2612.6	2647.7
25°	2348.7	2368.3	2439.9	2566.3	2709.5	2795.1	2821.8	2842.9	2786.7	2723.5	2727.7
27.5°	2534.0	2548.0	2618.2	2753.0	2896.2	2993.1	3016.9	3053.4	2979.0	2878.0	2849.9
30°	2754.4	2768.5	2842.9	2984.7	3126.4	3209.3	3245.8	3290.7	3209.3	3082.9	3050.6
32.5°	3012.7	3026.8	3122.2	3268.2	3384.8	3474.6	3509.7	3557.4	3492.9	3351.1	3314.6
35°	3321.6	3330.0	3442.3	3601.0	3724.5	3811.5	3835.4	3891.6	3820.0	3678.2	3658.5
37.5°	3679.6	3689.4	3811.5	3995.4	4121.8	4218.7	4256.6	4272.0	4185.0	4026.3	4010.9
40°	4072.7	4105.0	4224.3	4422.2	4564.0	4686.2	4719.9	4667.9	4545.8	4329.6	4301.5
42.5°	4482.6	4510.7	4644.0	4858.8	5023.1	5148.0	5149.4	5037.1	4829.4	4530.3	4488.2
45°	4823.7	4835.0	5007.6	5223.8	5426.0	5514.4	5522.9	5319.3	5006.2	4646.9	4557.0
47.5°	5058.2	5076.4	5226.7	5434.4	5657.6	5737.7	5720.8	5466.7	5090.5	4722.7	4573.8
50°	5061.0	5091.9	5254.7	5455.5	5671.7	5768.6	5744.7	5508.8	5138.2	4725.5	4533.1
52.5°	4613.2	4663.7	4929.0	5219.6	5551.0	5716.6	5722.2	5563.6	5120.0	4680.5	4496.6
55°	3480.2	3535.0	3869.1	4364.7	5004.8	5466.7	5546.7	5499.0	5098.9	4700.2	4561.2
57.5°	1841.9	1799.8	1985.1	2476.4	3280.9	4097.9	4332.4	4714.2	4864.5	4724.1	4680.5
60°	401.5	428.2	570.0	767.9	1280.3	1927.5	2156.4	2810.6	3588.3	3933.7	4183.6
62.5°	172.7	169.9	176.9	200.8	293.4	488.6	596.7	974.3	1537.3	2111.4	2500.3
65°	141.8	143.2	148.8	148.8	139.0	140.4	147.4	223.2	359.4	504.0	676.7
67.5°	106.7	108.1	117.9	120.7	113.7	101.1	99.7	84.2	88.4	110.9	115.1
70°	67.4	67.4	73.0	75.8	75.8	70.2	68.8	60.4	59.0	67.4	75.8
72.5°	36.5	36.5	39.3	40.7	39.3	37.9	37.9	36.5	35.1	40.7	51.9
75°	15.4	15.4	16.8	16.8	15.4	15.4	15.4	15.4	15.4	18.3	28.1
77.5°	2.8	4.2	5.6	4.2	2.8	2.8	2.8	4.2	4.2	5.6	8.4
80°	1.4	1.4	2.8	1.4	0.0	0.0	0.0	0.0	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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°	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4
2.5°	1836.3	1820.8	1826.5	1829.3	1825.0	1822.2	1806.8	1802.6	1795.6	1784.3	1781.5
5°	1898.0	1885.4	1884.0	1875.6	1855.9	1832.1	1802.6	1790.0	1775.9	1761.9	1759.1
7.5°	2001.9	1986.5	1976.7	1948.6	1903.7	1865.8	1816.6	1790.0	1771.7	1753.4	1749.2
10°	2135.3	2117.1	2089.0	2037.0	1976.7	1921.9	1864.4	1829.3	1801.2	1775.9	1774.5
12.5°	2277.1	2257.4	2206.9	2140.9	2067.9	2017.4	1944.4	1895.2	1853.1	1815.2	1811.0
15°	2425.9	2402.0	2333.3	2254.6	2187.2	2135.3	2055.3	1976.7	1912.1	1857.3	1851.7
17.5°	2539.6	2510.1	2428.7	2369.8	2315.0	2261.7	2171.8	2067.9	1982.3	1916.3	1900.9
20°	2611.2	2583.1	2505.9	2473.6	2448.4	2410.5	2303.8	2195.7	2100.2	2018.8	2004.7
22.5°	2680.0	2646.3	2578.9	2578.9	2598.6	2583.1	2468.0	2344.5	2232.2	2138.1	2117.1
25°	2757.2	2730.6	2682.8	2722.1	2771.3	2769.9	2651.9	2497.5	2368.3	2263.1	2242.0
27.5°	2869.5	2842.9	2826.0	2900.4	2962.2	2958.0	2828.8	2661.8	2525.6	2421.7	2402.0
30°	3067.5	3042.2	3024.0	3113.8	3192.4	3162.9	3021.2	2859.7	2722.1	2604.2	2590.2
32.5°	3331.4	3304.7	3280.9	3370.7	3440.9	3403.0	3268.2	3116.6	2958.0	2842.9	2814.8
35°	3678.2	3622.0	3598.2	3704.8	3734.3	3692.2	3563.1	3429.7	3261.2	3129.3	3111.0
37.5°	4036.2	3970.2	3953.3	4046.0	4093.7	4078.3	3926.7	3787.7	3605.2	3459.2	3438.1
40°	4342.2	4281.8	4252.4	4397.0	4505.1	4514.9	4378.7	4208.8	3994.0	3842.4	3804.5
42.5°	4521.9	4470.0	4462.9	4687.6	4864.5	4990.8	4828.0	4652.5	4426.4	4255.2	4224.3
45°	4562.6	4528.9	4587.9	4882.7	5157.9	5388.1	5249.1	5063.8	4819.5	4638.4	4608.9
47.5°	4558.4	4547.2	4652.5	4983.8	5331.9	5615.5	5546.7	5337.6	5101.7	4912.2	4884.1
50°	4498.0	4499.4	4674.9	5034.3	5402.1	5677.3	5608.5	5414.8	5204.2	5017.5	4995.0
52.5°	4474.2	4465.7	4632.8	5018.9	5473.7	5649.2	5494.8	5277.2	5042.7	4812.5	4778.8
55°	4558.4	4537.3	4638.4	5006.2	5482.2	5633.8	5226.7	4754.9	4274.8	4002.5	3980.0
57.5°	4684.8	4662.3	4710.0	4913.6	5042.7	4684.8	3846.6	3085.7	2591.6	2382.4	2291.1
60°	4183.6	4168.1	4131.6	3885.9	3332.8	2514.4	1712.7	1092.2	784.8	634.6	634.6
62.5°	2595.8	2574.7	2376.8	1766.1	1283.1	742.7	408.5	255.5	193.7	181.1	179.7
65°	728.6	724.4	599.5	424.0	269.5	167.1	147.4	150.2	147.4	143.2	141.8
67.5°	109.5	120.7	120.7	98.3	94.1	105.3	123.5	132.0	124.9	117.9	115.1
70°	70.2	75.8	73.0	63.2	67.4	78.6	88.4	89.8	85.6	78.6	77.2
72.5°	49.1	54.8	44.9	40.7	42.1	46.3	50.5	50.5	49.1	46.3	43.5
75°	29.5	29.5	21.1	19.7	19.7	21.1	21.1	23.9	23.9	22.5	21.1
77.5°	9.8	11.2	7.0	5.6	5.6	5.6	7.0	8.4	8.4	7.0	5.6
80°	1.4	2.8	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	1.4
82.5°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
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)