

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: P637201

Luminaire Tested: GWS-SA4C-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637201
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12408.7 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

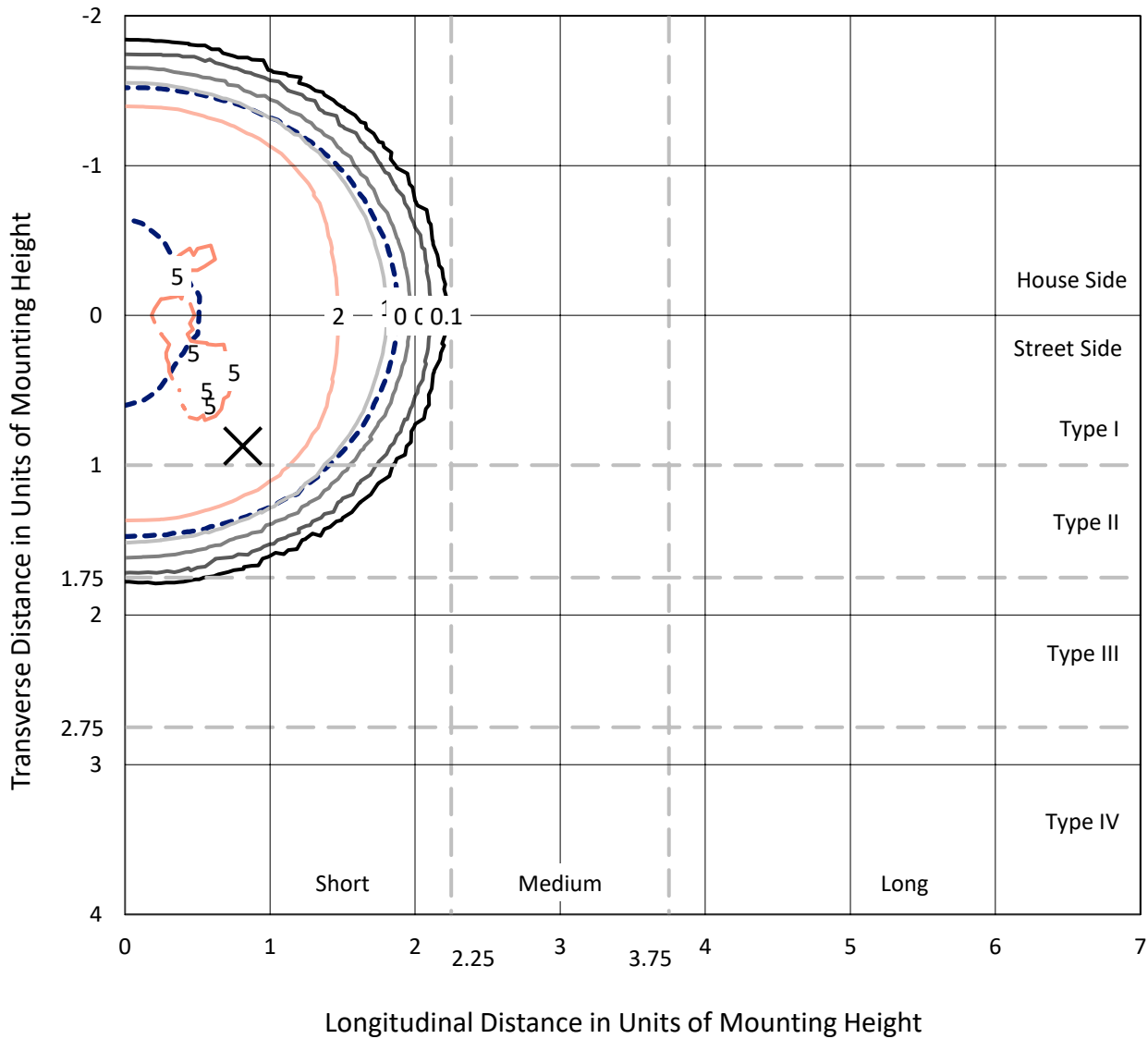
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

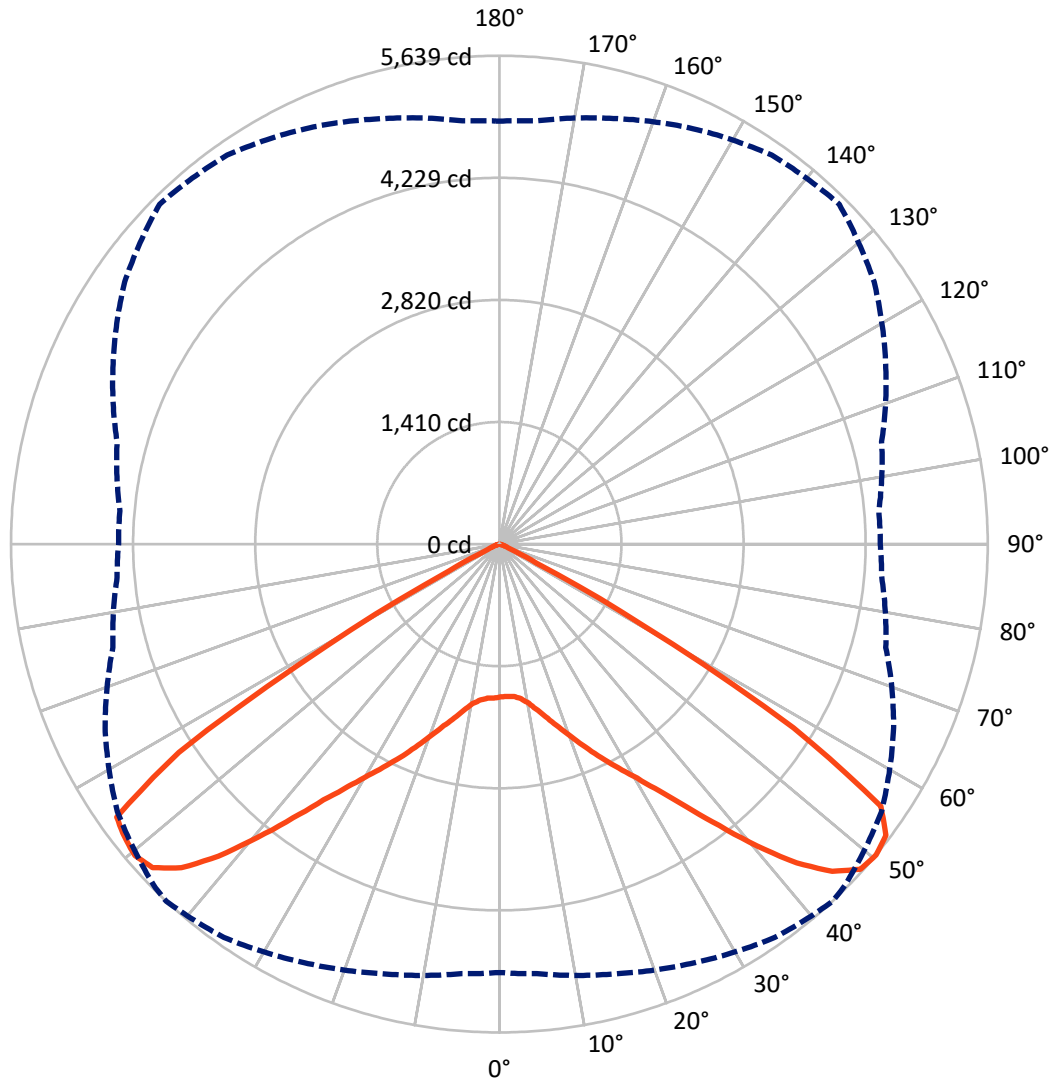
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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	6204.2	0.0	6204.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6204.5	0.0	6204.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12408.7	0.0	12408.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	1.4
10°-20°	598.1	4.8
20°-30°	1210.1	9.8
30°-40°	2245.1	18.1
40°-50°	3726.8	30.0
50°-60°	3803.4	30.7
60°-70°	623.7	5.0
70°-80°	27.3	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°	12408.7	100.0
0°-180°	12408.7	100.0

Coefficient of Utilization



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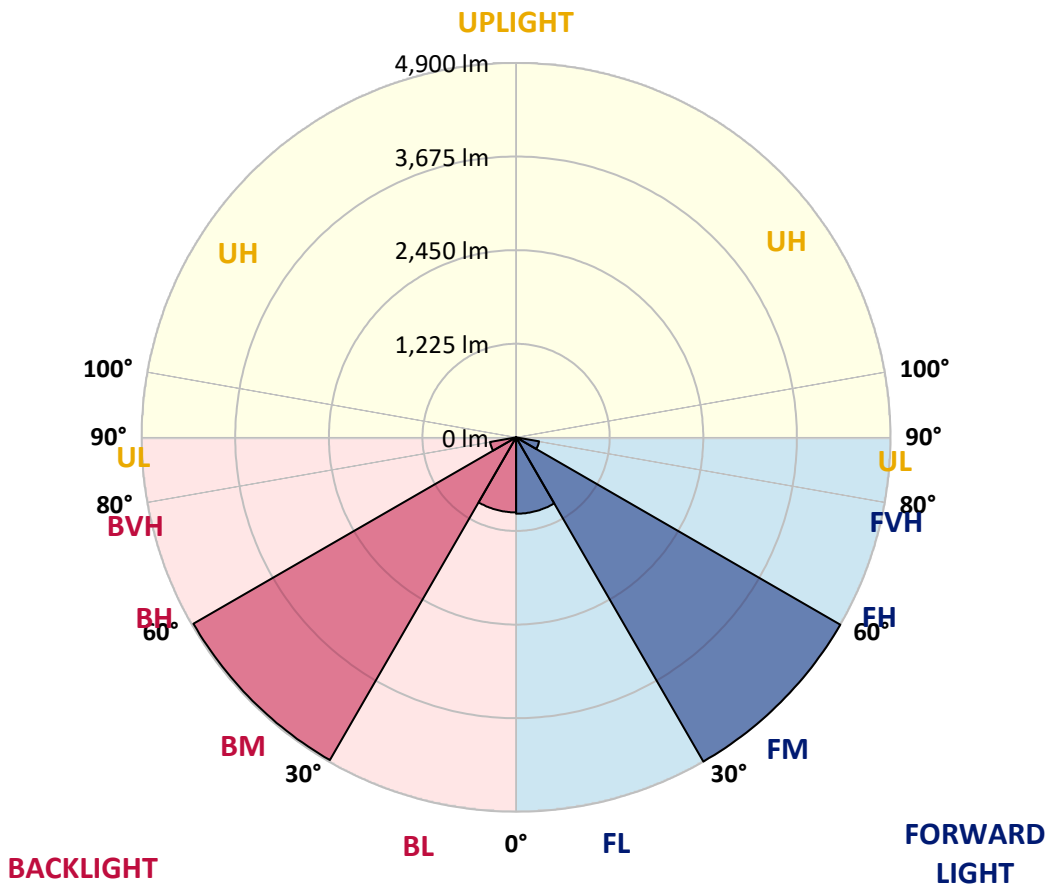
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.7	8.1			
FM (30°-60°)	4899.6	39.5			
FH (60°-80°)	305.1	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	982.3	7.9	B2/1000		
BM (30°-60°)	4875.7	39.3	B3/5000		
BH (60°-80°)	345.9	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°	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9
2.5°	1732.0	1736.1	1741.6	1747.1	1754.0	1760.8	1764.9	1777.3	1774.5	1785.5	1785.5
5°	1712.8	1716.9	1723.8	1736.1	1751.2	1766.3	1777.3	1802.0	1815.7	1837.7	1845.9
7.5°	1722.4	1727.9	1736.1	1755.3	1778.7	1802.0	1814.3	1854.1	1881.6	1922.8	1946.1
10°	1754.0	1759.5	1773.2	1806.1	1836.3	1869.2	1884.3	1935.1	1979.0	2035.3	2068.2
12.5°	1789.6	1796.5	1824.0	1873.4	1925.5	1969.4	1990.0	2046.3	2091.6	2154.7	2206.9
15°	1826.7	1837.7	1880.2	1953.0	2027.1	2086.1	2108.0	2168.4	2213.7	2281.0	2340.0
17.5°	1913.2	1925.5	1973.6	2051.8	2153.3	2222.0	2241.2	2304.3	2338.6	2383.9	2445.7
20°	2021.6	2044.9	2103.9	2198.6	2309.8	2375.7	2389.4	2451.2	2448.4	2467.6	2521.1
22.5°	2156.1	2172.6	2237.1	2349.6	2474.5	2547.2	2578.8	2604.9	2570.6	2554.1	2588.4
25°	2296.1	2315.3	2385.3	2508.8	2648.8	2732.5	2758.6	2779.2	2724.3	2662.5	2666.6
27.5°	2477.2	2491.0	2559.6	2691.3	2831.3	2926.0	2949.3	2985.0	2912.3	2813.5	2786.0
30°	2692.7	2706.4	2779.2	2917.8	3056.4	3137.4	3173.1	3217.0	3137.4	3013.9	2982.3
32.5°	2945.2	2959.0	3052.3	3195.0	3308.9	3396.8	3431.1	3477.7	3414.6	3276.0	3240.3
35°	3247.2	3255.4	3365.2	3520.3	3641.0	3726.1	3749.5	3804.4	3734.4	3595.8	3576.5
37.5°	3597.1	3606.7	3726.1	3905.9	4029.4	4124.1	4161.2	4176.3	4091.2	3936.1	3921.0
40°	3981.4	4013.0	4129.6	4323.1	4461.8	4581.2	4614.1	4563.3	4443.9	4232.6	4205.1
42.5°	4382.2	4409.6	4540.0	4750.0	4910.5	5032.7	5034.1	4924.3	4721.1	4428.8	4387.6
45°	4715.7	4726.6	4895.4	5106.8	5304.4	5390.9	5399.1	5200.1	4894.1	4542.7	4454.9
47.5°	4944.9	4962.7	5109.5	5312.7	5530.9	5609.1	5592.6	5344.2	4976.4	4616.8	4471.4
50°	4947.6	4977.8	5137.0	5333.3	5544.6	5639.3	5616.0	5385.4	5023.1	4619.6	4431.6
52.5°	4509.8	4559.2	4818.6	5102.7	5426.6	5588.5	5594.0	5438.9	5005.2	4575.7	4395.9
55°	3402.2	3455.8	3782.4	4266.9	4892.7	5344.2	5422.5	5375.8	4984.7	4594.9	4459.0
57.5°	1800.6	1759.5	1940.6	2421.0	3207.4	4006.1	4235.3	4608.6	4755.5	4618.2	4575.7
60°	392.5	418.6	557.2	750.7	1251.7	1884.3	2108.0	2747.6	3507.9	3845.5	4089.8
62.5°	168.8	166.1	172.9	196.3	286.8	477.6	583.3	952.5	1502.8	2064.1	2444.3
65°	138.6	140.0	145.5	145.5	135.9	137.2	144.1	218.2	351.3	492.7	661.5
67.5°	104.3	105.7	115.3	118.0	111.2	98.8	97.4	82.3	86.5	108.4	112.5
70°	65.9	65.9	71.4	74.1	74.1	68.6	67.2	59.0	57.6	65.9	74.1
72.5°	35.7	35.7	38.4	39.8	38.4	37.1	37.1	35.7	34.3	39.8	50.8
75°	15.1	15.1	16.5	16.5	15.1	15.1	15.1	15.1	15.1	17.8	27.4
77.5°	2.7	4.1	5.5	4.1	2.7	2.7	2.7	4.1	4.1	5.5	8.2
80°	1.4	1.4	2.7	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°	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9	1764.9
2.5°	1795.1	1780.0	1785.5	1788.3	1784.2	1781.4	1766.3	1762.2	1755.3	1744.4	1741.6
5°	1855.5	1843.2	1841.8	1833.6	1814.3	1791.0	1762.2	1749.8	1736.1	1722.4	1719.7
7.5°	1957.1	1942.0	1932.4	1904.9	1861.0	1824.0	1775.9	1749.8	1732.0	1714.2	1710.0
10°	2087.5	2069.6	2042.2	1991.4	1932.4	1878.9	1822.6	1788.3	1760.8	1736.1	1734.7
12.5°	2226.1	2206.9	2157.5	2093.0	2021.6	1972.2	1900.8	1852.8	1811.6	1774.5	1770.4
15°	2371.6	2348.2	2281.0	2204.1	2138.2	2087.5	2009.2	1932.4	1869.2	1815.7	1810.2
17.5°	2482.7	2453.9	2374.3	2316.7	2263.1	2211.0	2123.1	2021.6	1937.9	1873.4	1858.3
20°	2552.7	2525.3	2449.8	2418.2	2393.5	2356.5	2252.2	2146.5	2053.2	1973.6	1959.8
22.5°	2620.0	2587.0	2521.1	2521.1	2540.4	2525.3	2412.7	2292.0	2182.2	2090.2	2069.6
25°	2695.4	2669.4	2622.7	2661.1	2709.2	2707.8	2592.5	2441.5	2315.3	2212.4	2191.8
27.5°	2805.2	2779.2	2762.7	2835.4	2895.8	2891.7	2765.4	2602.1	2469.0	2367.4	2348.2
30°	2998.8	2974.0	2956.2	3044.0	3120.9	3092.1	2953.5	2795.6	2661.1	2545.9	2532.1
32.5°	3256.8	3230.7	3207.4	3295.2	3363.8	3326.8	3195.0	3046.8	2891.7	2779.2	2751.7
35°	3595.8	3540.9	3517.5	3621.8	3650.7	3609.5	3483.2	3352.8	3188.1	3059.1	3041.3
37.5°	3945.7	3881.2	3864.8	3955.3	4002.0	3986.9	3838.7	3702.8	3524.4	3381.7	3361.1
40°	4244.9	4185.9	4157.1	4298.4	4404.1	4413.7	4280.6	4114.5	3904.6	3756.3	3719.3
42.5°	4420.6	4369.8	4362.9	4582.5	4755.5	4879.0	4719.8	4548.2	4327.3	4159.8	4129.6
45°	4460.4	4427.4	4485.1	4773.3	5042.3	5267.4	5131.5	4950.3	4711.5	4534.5	4505.7
47.5°	4456.3	4445.3	4548.2	4872.1	5212.5	5489.7	5422.5	5218.0	4987.4	4802.1	4774.7
50°	4397.3	4398.6	4570.2	4921.5	5281.1	5550.1	5482.8	5293.5	5087.6	4905.1	4883.1
52.5°	4373.9	4365.7	4529.0	4906.4	5351.1	5522.6	5371.7	5159.0	4929.8	4704.7	4671.7
55°	4456.3	4435.7	4534.5	4894.1	5359.3	5507.6	5109.5	4648.4	4179.0	3912.8	3890.8
57.5°	4579.8	4557.8	4604.5	4803.5	4929.8	4579.8	3760.5	3016.6	2533.5	2329.0	2239.8
60°	4089.8	4074.7	4039.1	3798.9	3258.1	2458.0	1674.4	1067.7	767.2	620.3	620.3
62.5°	2537.6	2517.0	2323.5	1726.5	1254.4	726.0	399.4	249.8	189.4	177.0	175.7
65°	712.3	708.2	586.0	414.5	263.5	163.3	144.1	146.8	144.1	140.0	138.6
67.5°	107.0	118.0	118.0	96.1	92.0	102.9	120.8	129.0	122.1	115.3	112.5
70°	68.6	74.1	71.4	61.8	65.9	76.9	86.5	87.8	83.7	76.9	75.5
72.5°	48.0	53.5	43.9	39.8	41.2	45.3	49.4	49.4	48.0	45.3	42.5
75°	28.8	28.8	20.6	19.2	19.2	20.6	20.6	23.3	23.3	22.0	20.6
77.5°	9.6	11.0	6.9	5.5	5.5	5.5	6.9	8.2	8.2	6.9	5.5
80°	1.4	2.7	1.4	1.4	1.4	1.4	1.4	1.4	2.7	2.7	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)