

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: P637531

Luminaire Tested: GWS-SA4D-722-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637531
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-SA4D-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11691.1 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

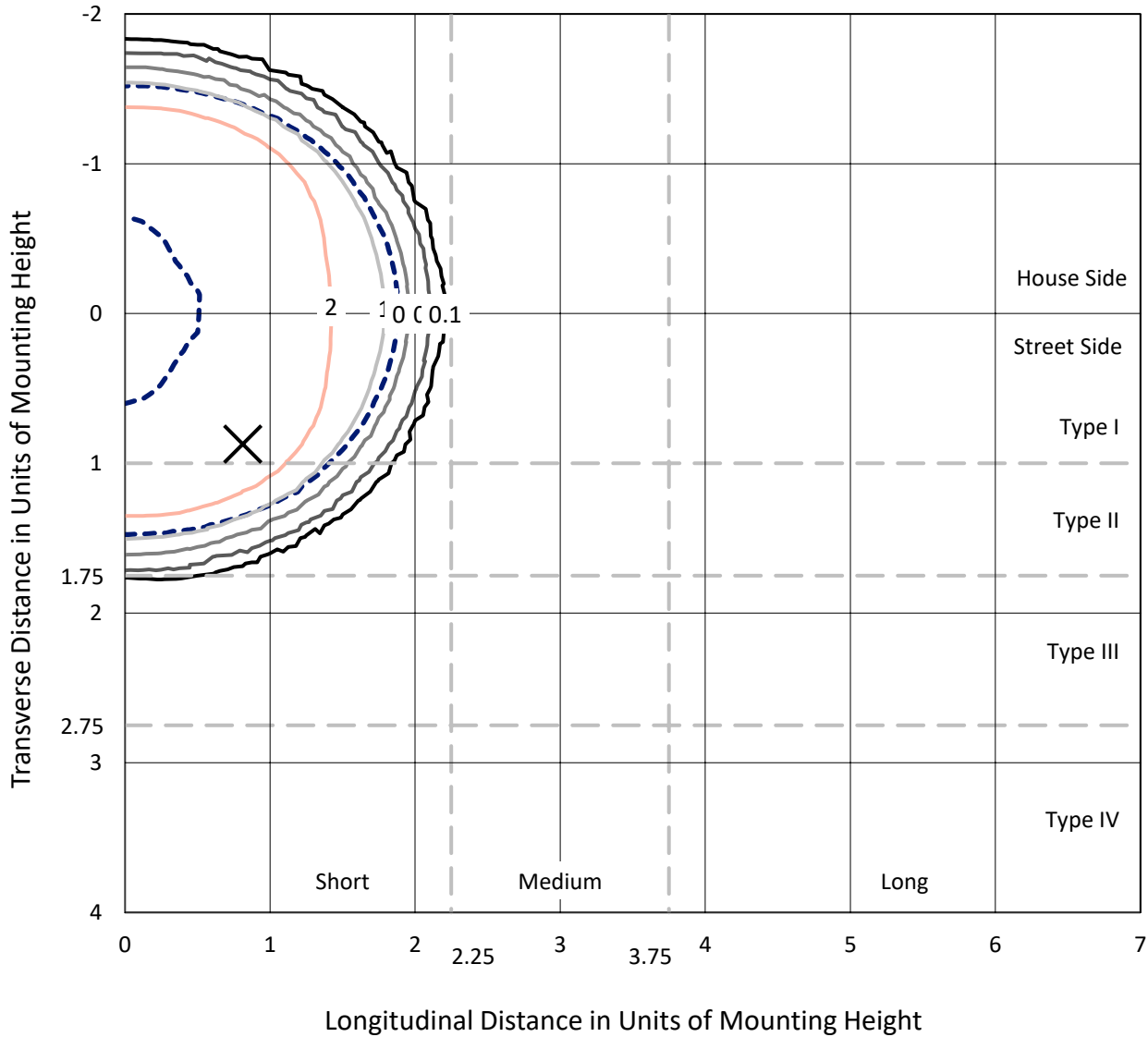
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

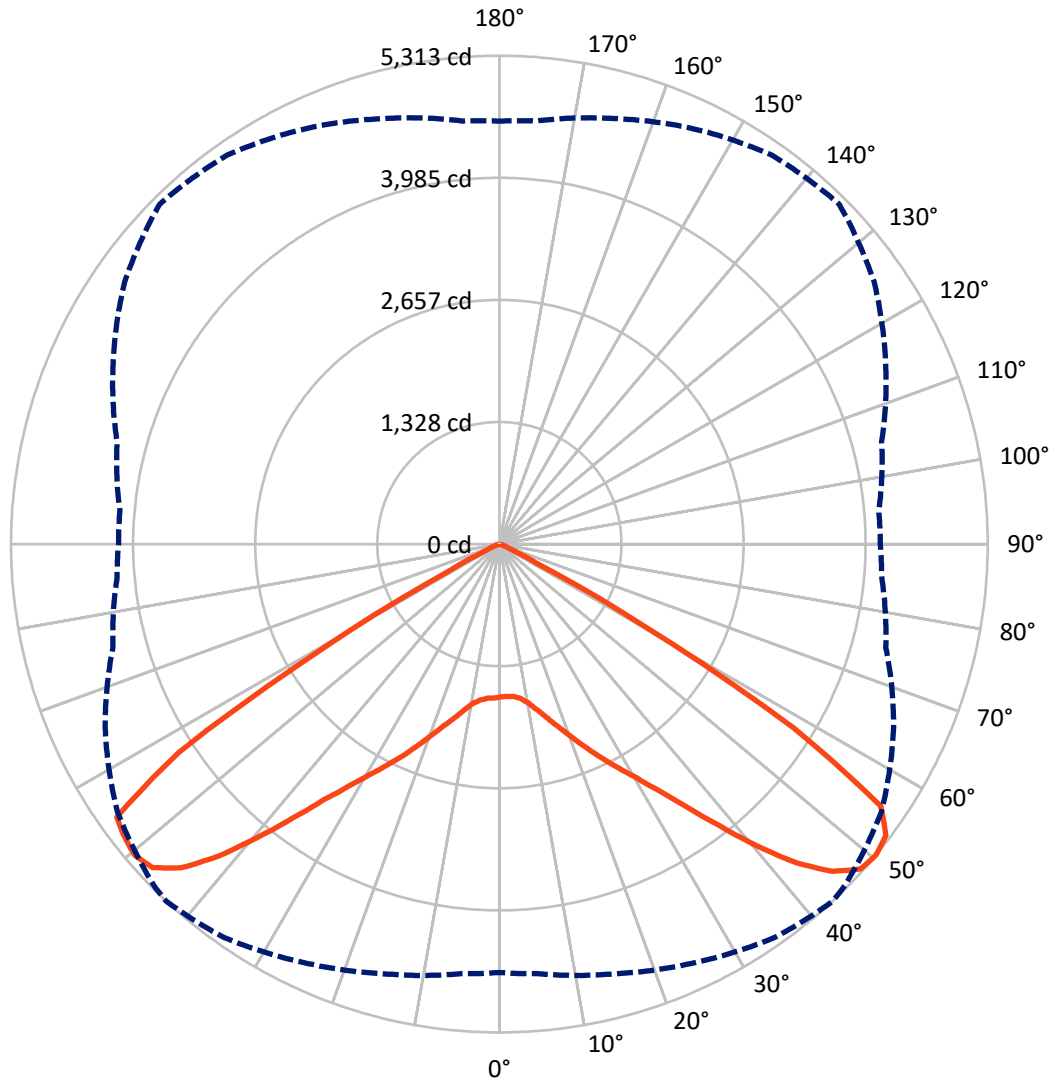
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 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	5845.4	0.0	5845.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5845.7	0.0	5845.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	11691.1	0.0	11691.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	1.4
10°-20°	563.5	4.8
20°-30°	1140.1	9.8
30°-40°	2115.3	18.1
40°-50°	3511.3	30.0
50°-60°	3583.4	30.7
60°-70°	587.6	5.0
70°-80°	25.7	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°	11691.1	100.0
0°-180°	11691.1	100.0

Coefficient of Utilization



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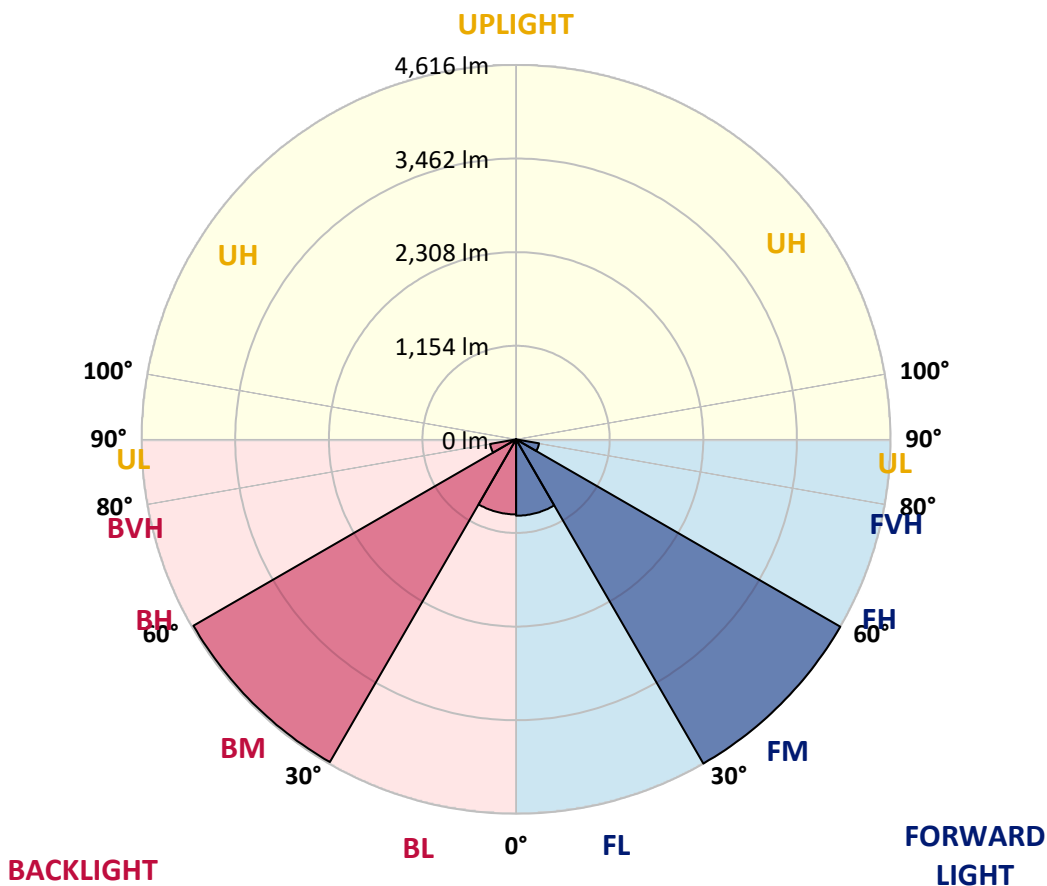
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	941.9	8.1			
FM (30°-60°)	4616.2	39.5			
FH (60°-80°)	287.5	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	925.5	7.9	B2/1000		
BM (30°-60°)	4593.8	39.3	B3/5000		
BH (60°-80°)	325.9	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°	1662.9	1662.9	1662.9	1662.9	1662.9	1662.9	1662.9	1662.9	1662.9	1662.9	1662.9
2.5°	1631.8	1635.7	1640.9	1646.1	1652.5	1659.0	1662.9	1674.5	1671.9	1682.3	1682.3
5°	1613.7	1617.6	1624.1	1635.7	1649.9	1664.2	1674.5	1697.8	1710.7	1731.4	1739.2
7.5°	1622.8	1628.0	1635.7	1653.8	1675.8	1697.8	1709.4	1746.9	1772.8	1811.6	1833.6
10°	1652.5	1657.7	1670.6	1701.7	1730.1	1761.1	1775.4	1823.2	1864.6	1917.6	1948.6
12.5°	1686.1	1692.6	1718.5	1765.0	1814.2	1855.5	1874.9	1928.0	1970.6	2030.1	2079.2
15°	1721.1	1731.4	1771.5	1840.0	1909.8	1965.4	1986.1	2043.0	2085.7	2149.1	2204.7
17.5°	1802.5	1814.2	1859.4	1933.1	2028.8	2093.5	2111.6	2171.0	2203.4	2246.0	2304.2
20°	1904.7	1926.7	1982.3	2071.5	2176.2	2238.3	2251.2	2309.4	2306.8	2324.9	2375.3
22.5°	2031.4	2046.9	2107.7	2213.7	2331.4	2399.9	2429.7	2454.2	2421.9	2406.4	2438.7
25°	2163.3	2181.4	2247.3	2363.7	2495.6	2574.5	2599.0	2618.4	2566.7	2508.5	2512.4
27.5°	2334.0	2346.9	2411.6	2535.7	2667.6	2756.8	2778.8	2812.4	2743.9	2650.8	2624.9
30°	2537.0	2549.9	2618.4	2749.0	2879.6	2955.9	2989.6	3030.9	2955.9	2839.6	2809.8
32.5°	2774.9	2787.8	2875.8	3010.2	3117.6	3200.3	3232.6	3276.6	3217.1	3086.5	3052.9
35°	3059.4	3067.1	3170.6	3316.7	3430.5	3510.7	3532.6	3584.4	3518.4	3387.8	3369.7
37.5°	3389.1	3398.2	3510.7	3680.0	3796.4	3885.6	3920.6	3934.8	3854.6	3708.5	3694.3
40°	3751.2	3780.9	3890.8	4073.1	4203.7	4316.2	4347.3	4299.4	4186.9	3987.8	3961.9
42.5°	4128.7	4154.6	4277.4	4475.3	4626.6	4741.6	4742.9	4639.5	4448.1	4172.7	4133.9
45°	4443.0	4453.3	4612.3	4811.5	4997.7	5079.1	5086.9	4899.4	4611.0	4280.0	4197.3
47.5°	4658.9	4675.7	4814.1	5005.4	5211.0	5284.7	5269.2	5035.2	4688.6	4349.9	4212.8
50°	4661.5	4689.9	4839.9	5024.8	5224.0	5313.2	5291.2	5074.0	4732.6	4352.4	4175.3
52.5°	4249.0	4295.5	4539.9	4807.6	5112.8	5265.3	5270.5	5124.4	4715.8	4311.1	4141.7
55°	3205.5	3255.9	3563.7	4020.1	4609.8	5035.2	5108.9	5064.9	4696.4	4329.2	4201.1
57.5°	1696.5	1657.7	1828.4	2281.0	3021.9	3774.4	3990.4	4342.1	4480.4	4351.1	4311.1
60°	369.8	394.4	525.0	707.3	1179.3	1775.4	1986.1	2588.7	3305.1	3623.2	3853.3
62.5°	159.0	156.5	162.9	184.9	270.2	450.0	549.6	897.4	1415.9	1944.8	2302.9
65°	130.6	131.9	137.1	137.1	128.0	129.3	135.8	205.6	331.0	464.2	623.3
67.5°	98.3	99.6	108.6	111.2	104.7	93.1	91.8	77.6	81.5	102.2	106.0
70°	62.1	62.1	67.2	69.8	69.8	64.7	63.4	55.6	54.3	62.1	69.8
72.5°	33.6	33.6	36.2	37.5	36.2	34.9	34.9	33.6	32.3	37.5	47.8
75°	14.2	14.2	15.5	15.5	14.2	14.2	14.2	14.2	14.2	16.8	25.9
77.5°	2.6	3.9	5.2	3.9	2.6	2.6	2.6	3.9	3.9	5.2	7.8
80°	1.3	1.3	2.6	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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°	1662.9	1662.9	1662.9	1662.9	1662.9	1662.9	1662.9	1662.9	1662.9	1662.9	1662.9
2.5°	1691.3	1677.1	1682.3	1684.9	1681.0	1678.4	1664.2	1660.3	1653.8	1643.5	1640.9
5°	1748.2	1736.6	1735.3	1727.5	1709.4	1687.4	1660.3	1648.7	1635.7	1622.8	1620.2
7.5°	1843.9	1829.7	1820.6	1794.8	1753.4	1718.5	1673.2	1648.7	1631.8	1615.0	1611.2
10°	1966.7	1949.9	1924.1	1876.2	1820.6	1770.2	1717.2	1684.9	1659.0	1635.7	1634.4
12.5°	2097.3	2079.2	2032.7	1971.9	1904.7	1858.1	1790.9	1745.6	1706.8	1671.9	1668.0
15°	2234.4	2212.4	2149.1	2076.7	2014.6	1966.7	1893.0	1820.6	1761.1	1710.7	1705.5
17.5°	2339.1	2312.0	2237.0	2182.7	2132.3	2083.1	2000.4	1904.7	1825.8	1765.0	1750.8
20°	2405.1	2379.2	2308.1	2278.4	2255.1	2220.2	2121.9	2022.3	1934.4	1859.4	1846.5
22.5°	2468.4	2437.4	2375.3	2375.3	2393.5	2379.2	2273.2	2159.4	2056.0	1969.3	1949.9
25°	2539.6	2515.0	2471.0	2507.2	2552.5	2551.2	2442.6	2300.4	2181.4	2084.4	2065.0
27.5°	2643.0	2618.4	2602.9	2671.5	2728.4	2724.5	2605.5	2451.6	2326.2	2230.5	2212.4
30°	2825.3	2802.1	2785.2	2868.0	2940.4	2913.3	2782.7	2634.0	2507.2	2398.6	2385.7
32.5°	3068.4	3043.9	3021.9	3104.6	3169.3	3134.4	3010.2	2870.6	2724.5	2618.4	2592.6
35°	3387.8	3336.1	3314.1	3412.4	3439.5	3400.7	3281.8	3158.9	3003.8	2882.2	2865.4
37.5°	3717.5	3656.8	3641.3	3726.6	3770.6	3756.3	3616.7	3488.7	3320.6	3186.1	3166.7
40°	3999.4	3943.8	3916.7	4049.9	4149.4	4158.5	4033.1	3876.6	3678.8	3539.1	3504.2
42.5°	4164.9	4117.1	4110.6	4317.5	4480.4	4596.8	4446.8	4285.2	4077.0	3919.3	3890.8
45°	4202.4	4171.4	4225.7	4497.3	4750.7	4962.8	4834.7	4664.1	4439.1	4272.3	4245.1
47.5°	4198.6	4188.2	4285.2	4590.4	4911.0	5172.2	5108.9	4916.2	4699.0	4524.4	4498.6
50°	4143.0	4144.3	4305.9	4636.9	4975.7	5229.1	5165.8	4987.3	4793.4	4621.4	4600.7
52.5°	4121.0	4113.2	4267.1	4622.7	5041.6	5203.3	5061.0	4860.6	4644.7	4432.6	4401.6
55°	4198.6	4179.2	4272.3	4611.0	5049.4	5189.0	4814.1	4379.6	3937.4	3686.5	3665.8
57.5°	4314.9	4294.2	4338.2	4525.7	4644.7	4314.9	3543.0	2842.1	2387.0	2194.3	2110.3
60°	3853.3	3839.1	3805.5	3579.2	3069.7	2315.9	1577.5	1006.0	722.8	584.5	584.5
62.5°	2390.9	2371.5	2189.1	1626.7	1181.9	684.0	376.3	235.3	178.4	166.8	165.5
65°	671.1	667.2	552.1	390.5	248.3	153.9	135.8	138.4	135.8	131.9	130.6
67.5°	100.9	111.2	111.2	90.5	86.6	97.0	113.8	121.5	115.1	108.6	106.0
70°	64.7	69.8	67.2	58.2	62.1	72.4	81.5	82.8	78.9	72.4	71.1
72.5°	45.3	50.4	41.4	37.5	38.8	42.7	46.6	46.6	45.3	42.7	40.1
75°	27.2	27.2	19.4	18.1	18.1	19.4	19.4	22.0	22.0	20.7	19.4
77.5°	9.1	10.3	6.5	5.2	5.2	5.2	6.5	7.8	7.8	6.5	5.2
80°	1.3	2.6	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	1.3
82.5°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
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)