

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: P636816

Luminaire Tested: GWS-SA4B-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636816
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-SA4B-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9596.1 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

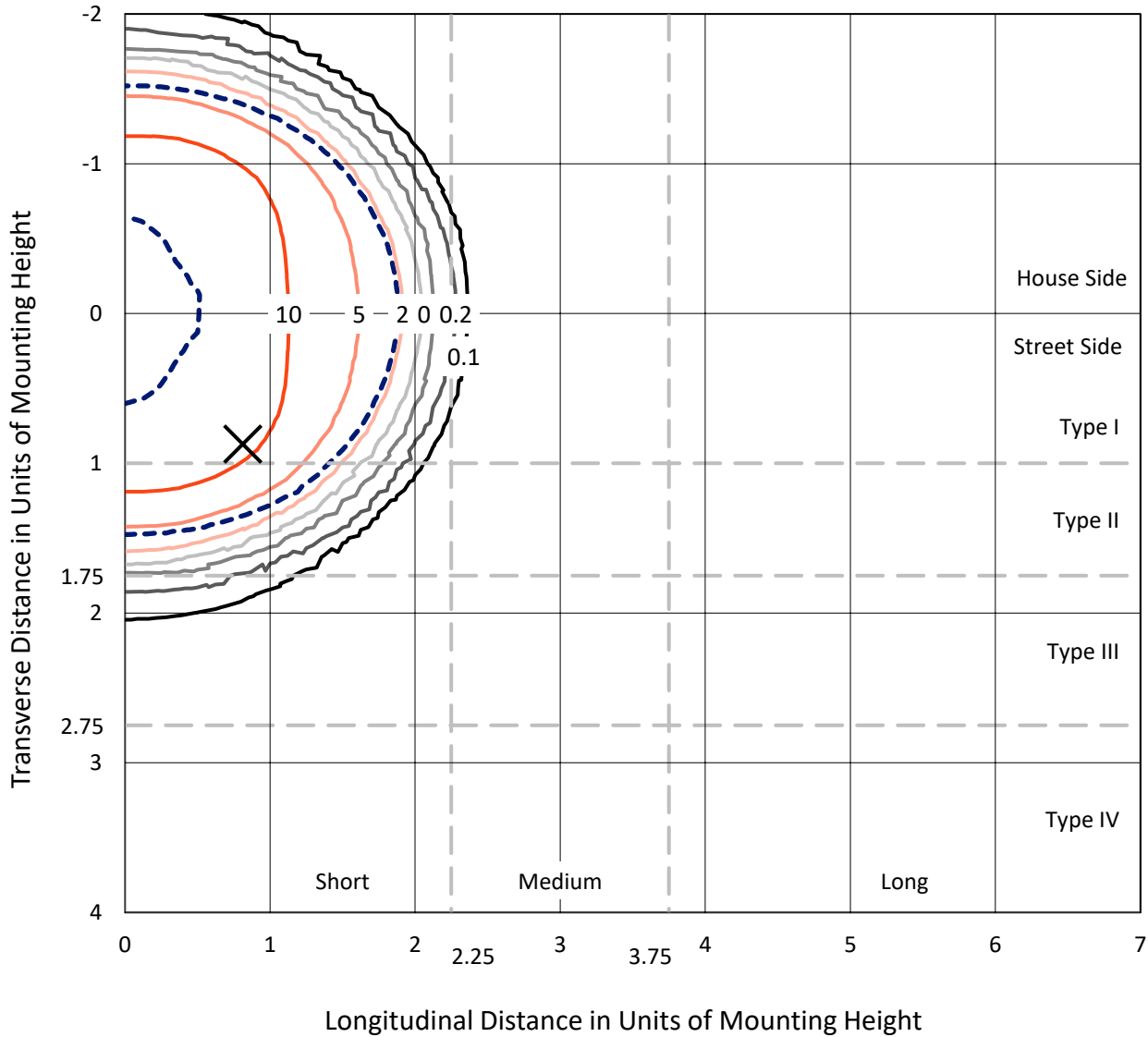
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

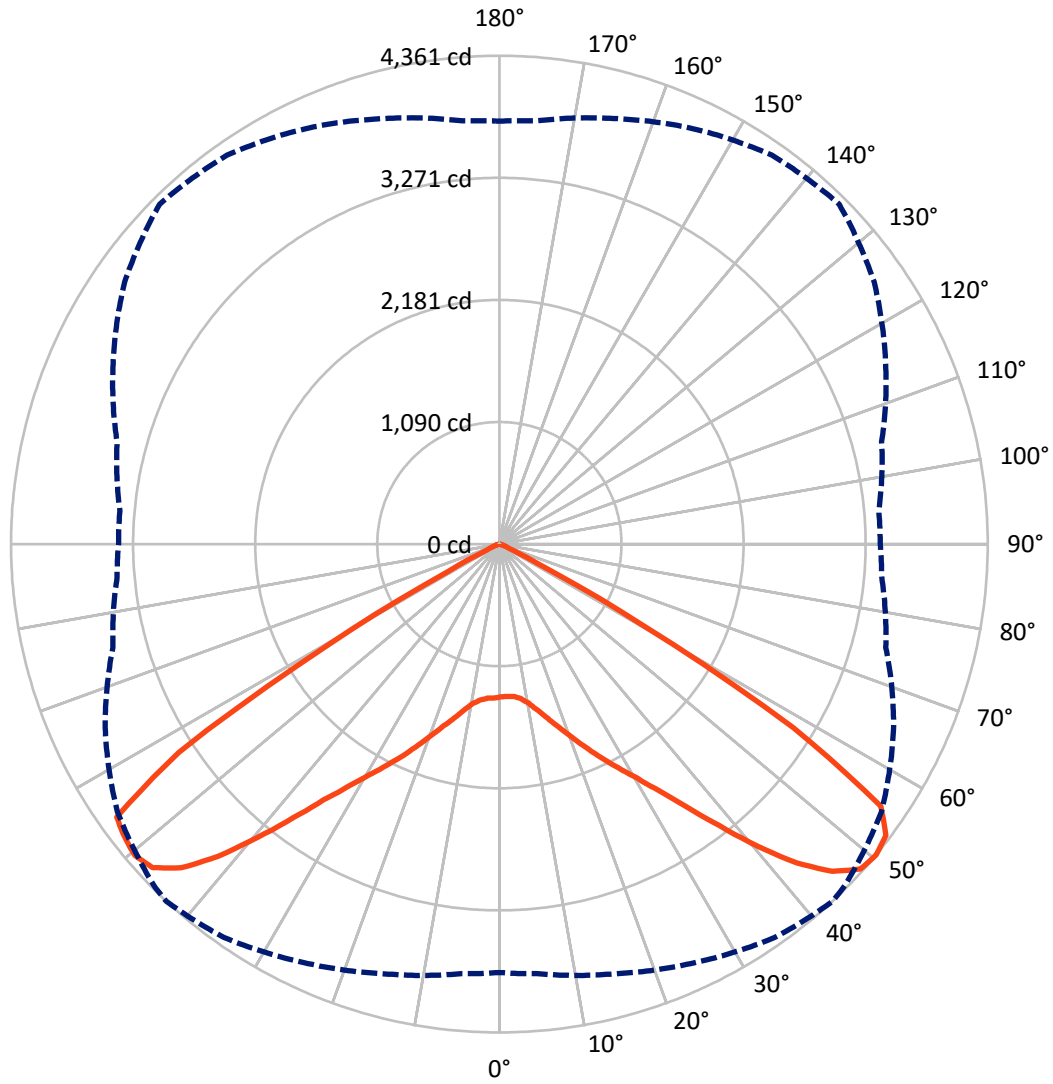
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 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	4797.9	0.0	4797.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4798.2	0.0	4798.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	9596.1	0.0	9596.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	1.4
10°-20°	462.5	4.8
20°-30°	935.8	9.8
30°-40°	1736.2	18.1
40°-50°	2882.1	30.0
50°-60°	2941.3	30.7
60°-70°	482.3	5.0
70°-80°	21.1	0.2
80°-90°	0.3	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°	9596.1	100.0
0°-180°	9596.1	100.0

Coefficient of Utilization



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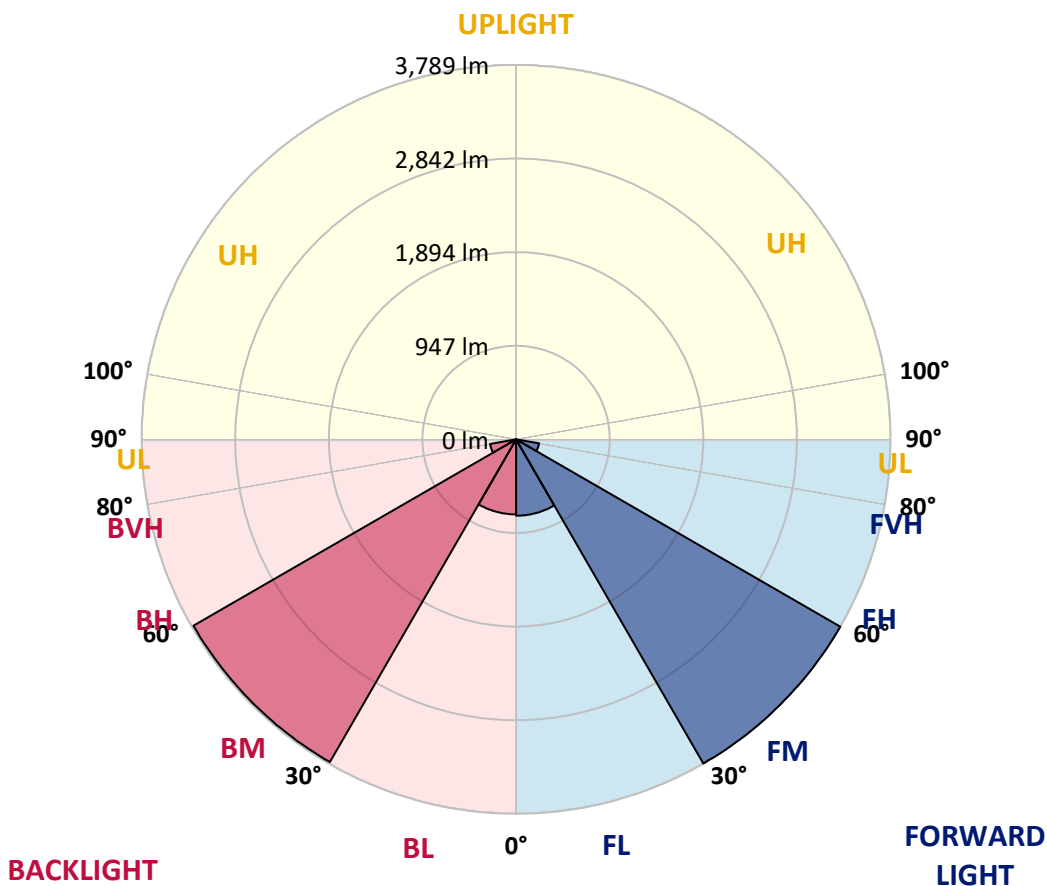
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.1	8.1			
FM (30°-60°)	3789.0	39.5			
FH (60°-80°)	236.0	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	759.7	7.9	B2/1000		
BM (30°-60°)	3770.6	39.3	B3/5000		
BH (60°-80°)	267.5	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°	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9
2.5°	1339.4	1342.6	1346.9	1351.1	1356.4	1361.7	1364.9	1374.4	1372.3	1380.8	1380.8
5°	1324.6	1327.7	1333.1	1342.6	1354.3	1366.0	1374.4	1393.5	1404.2	1421.1	1427.5
7.5°	1332.0	1336.2	1342.6	1357.5	1375.5	1393.5	1403.1	1433.9	1455.1	1486.9	1505.0
10°	1356.4	1360.6	1371.3	1396.7	1420.1	1445.6	1457.2	1496.5	1530.5	1574.0	1599.5
12.5°	1384.0	1389.3	1410.5	1448.7	1489.1	1523.0	1539.0	1582.5	1617.5	1666.3	1706.6
15°	1412.7	1421.1	1454.0	1510.3	1567.6	1613.2	1630.2	1676.9	1712.0	1764.0	1809.6
17.5°	1479.5	1489.1	1526.2	1586.7	1665.3	1718.3	1733.2	1782.0	1808.5	1843.6	1891.3
20°	1563.4	1581.4	1627.0	1700.3	1786.2	1837.2	1847.8	1895.6	1893.4	1908.3	1949.7
22.5°	1667.4	1680.1	1730.0	1817.0	1913.6	1969.9	1994.3	2014.4	1987.9	1975.2	2001.7
25°	1775.6	1790.5	1844.6	1940.1	2048.4	2113.1	2133.3	2149.2	2106.8	2059.0	2062.2
27.5°	1915.7	1926.3	1979.4	2081.3	2189.6	2262.8	2280.8	2308.4	2252.2	2175.8	2154.5
30°	2082.4	2093.0	2149.2	2256.4	2363.6	2426.2	2453.8	2487.8	2426.2	2330.7	2306.3
32.5°	2277.7	2288.3	2360.4	2470.8	2558.9	2626.8	2653.4	2689.5	2640.6	2533.4	2505.8
35°	2511.1	2517.5	2602.4	2722.4	2815.8	2881.6	2899.6	2942.1	2887.9	2780.7	2765.9
37.5°	2781.8	2789.2	2881.6	3020.6	3116.1	3189.4	3218.0	3229.7	3163.9	3043.9	3032.3
40°	3079.0	3103.4	3193.6	3343.2	3450.4	3542.8	3568.3	3529.0	3436.6	3273.2	3252.0
42.5°	3388.9	3410.1	3510.9	3673.3	3797.5	3892.0	3893.0	3808.1	3651.0	3425.0	3393.1
45°	3646.8	3655.3	3785.8	3949.3	4102.1	4169.0	4175.3	4021.4	3784.8	3513.1	3445.1
47.5°	3824.0	3837.8	3951.4	4108.5	4277.2	4337.7	4325.0	4132.9	3848.4	3570.4	3457.9
50°	3826.2	3849.5	3972.6	4124.4	4287.8	4361.1	4343.0	4164.7	3884.5	3572.5	3427.1
52.5°	3487.6	3525.8	3726.4	3946.1	4196.6	4321.8	4326.1	4206.1	3870.7	3538.5	3399.5
55°	2631.1	2672.5	2925.1	3299.7	3783.7	4132.9	4193.4	4157.3	3854.8	3553.4	3448.3
57.5°	1392.5	1360.6	1500.7	1872.2	2480.4	3098.1	3275.3	3564.0	3677.6	3571.4	3538.5
60°	303.5	323.7	430.9	580.6	967.9	1457.2	1630.2	2124.8	2712.8	2973.9	3162.8
62.5°	130.5	128.4	133.7	151.8	221.8	369.3	451.1	736.6	1162.2	1596.3	1890.3
65°	107.2	108.3	112.5	112.5	105.1	106.1	111.4	168.8	271.7	381.0	511.6
67.5°	80.7	81.7	89.2	91.3	86.0	76.4	75.4	63.7	66.9	83.8	87.0
70°	50.9	50.9	55.2	57.3	57.3	53.1	52.0	45.6	44.6	50.9	57.3
72.5°	27.6	27.6	29.7	30.8	29.7	28.7	28.7	27.6	26.5	30.8	39.3
75°	11.7	11.7	12.7	12.7	11.7	11.7	11.7	11.7	11.7	13.8	21.2
77.5°	2.1	3.2	4.2	3.2	2.1	2.1	2.1	3.2	3.2	4.2	6.4
80°	1.1	1.1	2.1	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9
2.5°	1388.2	1376.6	1380.8	1382.9	1379.8	1377.6	1366.0	1362.8	1357.5	1349.0	1346.9
5°	1434.9	1425.4	1424.3	1418.0	1403.1	1385.1	1362.8	1353.2	1342.6	1332.0	1329.9
7.5°	1513.5	1501.8	1494.4	1473.2	1439.2	1410.5	1373.4	1353.2	1339.4	1325.6	1322.4
10°	1614.3	1600.5	1579.3	1540.0	1494.4	1453.0	1409.5	1382.9	1361.7	1342.6	1341.5
12.5°	1721.5	1706.6	1668.4	1618.6	1563.4	1525.2	1470.0	1432.8	1401.0	1372.3	1369.1
15°	1834.0	1816.0	1764.0	1704.5	1653.6	1614.3	1553.8	1494.4	1445.6	1404.2	1399.9
17.5°	1920.0	1897.7	1836.1	1791.6	1750.2	1709.8	1641.9	1563.4	1498.6	1448.7	1437.1
20°	1974.1	1952.9	1894.5	1870.1	1851.0	1822.3	1741.7	1659.9	1587.8	1526.2	1515.6
22.5°	2026.1	2000.6	1949.7	1949.7	1964.6	1952.9	1865.8	1772.5	1687.5	1616.4	1600.5
25°	2084.5	2064.3	2028.2	2058.0	2095.1	2094.0	2004.9	1888.1	1790.5	1710.9	1695.0
27.5°	2169.4	2149.2	2136.5	2192.7	2239.4	2236.3	2138.6	2012.3	1909.4	1830.8	1816.0
30°	2319.0	2299.9	2286.1	2354.1	2413.5	2391.2	2284.0	2162.0	2058.0	1968.8	1958.2
32.5°	2518.6	2498.4	2480.4	2548.3	2601.4	2572.7	2470.8	2356.2	2236.3	2149.2	2128.0
35°	2780.7	2738.3	2720.2	2800.9	2823.2	2791.3	2693.7	2592.9	2465.5	2365.7	2351.9
37.5°	3051.4	3001.5	2988.8	3058.8	3094.9	3083.2	2968.6	2863.5	2725.5	2615.2	2599.2
40°	3282.7	3237.1	3214.8	3324.1	3405.9	3413.3	3310.3	3181.9	3019.5	2904.9	2876.3
42.5°	3418.6	3379.3	3374.0	3543.8	3677.6	3773.1	3650.0	3517.3	3346.4	3216.9	3193.6
45°	3449.4	3423.9	3468.5	3691.4	3899.4	4073.5	3968.4	3828.3	3643.6	3506.7	3484.4
47.5°	3446.2	3437.7	3517.3	3767.8	4031.0	4245.4	4193.4	4035.2	3856.9	3713.7	3692.4
50°	3400.6	3401.6	3534.3	3806.0	4084.1	4292.1	4240.1	4093.6	3934.4	3793.3	3776.3
52.5°	3382.5	3376.1	3502.4	3794.3	4138.2	4270.9	4154.1	3989.6	3812.4	3638.3	3612.8
55°	3446.2	3430.3	3506.7	3784.8	4144.6	4259.2	3951.4	3594.8	3231.8	3025.9	3008.9
57.5°	3541.7	3524.7	3560.8	3714.7	3812.4	3541.7	2908.1	2332.8	1959.2	1801.1	1732.1
60°	3162.8	3151.1	3123.5	2937.8	2519.6	1900.9	1294.8	825.7	593.3	479.7	479.7
62.5°	1962.4	1946.5	1796.9	1335.2	970.1	561.5	308.9	193.2	146.5	136.9	135.9
65°	550.8	547.7	453.2	320.5	203.8	126.3	111.4	113.6	111.4	108.3	107.2
67.5°	82.8	91.3	91.3	74.3	71.1	79.6	93.4	99.8	94.5	89.2	87.0
70°	53.1	57.3	55.2	47.8	50.9	59.4	66.9	67.9	64.7	59.4	58.4
72.5°	37.1	41.4	34.0	30.8	31.8	35.0	38.2	38.2	37.1	35.0	32.9
75°	22.3	22.3	15.9	14.9	14.9	15.9	15.9	18.0	18.0	17.0	15.9
77.5°	7.4	8.5	5.3	4.2	4.2	4.2	5.3	6.4	6.4	5.3	4.2
80°	1.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	1.1
82.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
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)