

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: P633241

Luminaire Tested: GWS-SA2E-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633241
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-SA2E-735-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9327.2 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

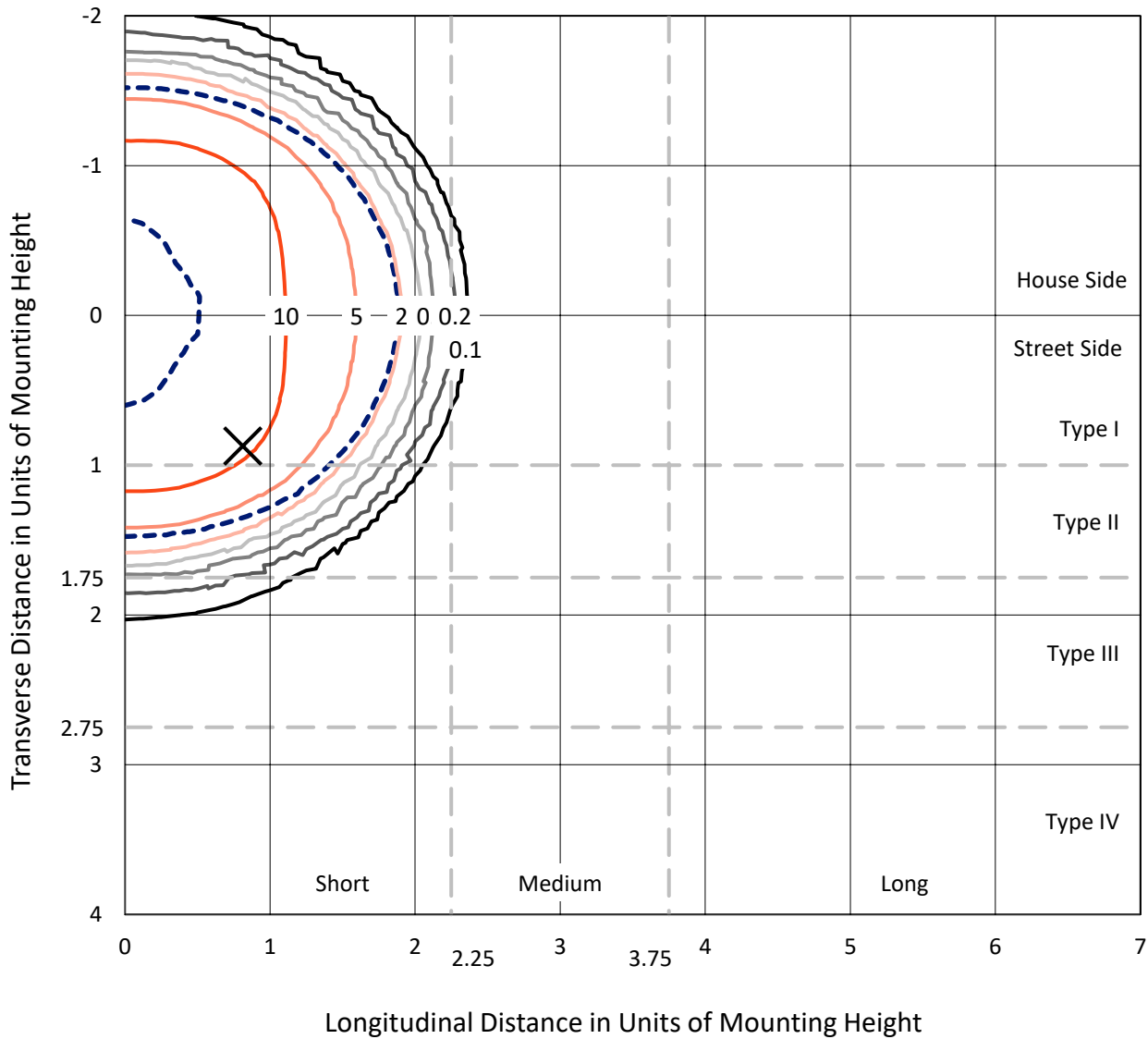
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

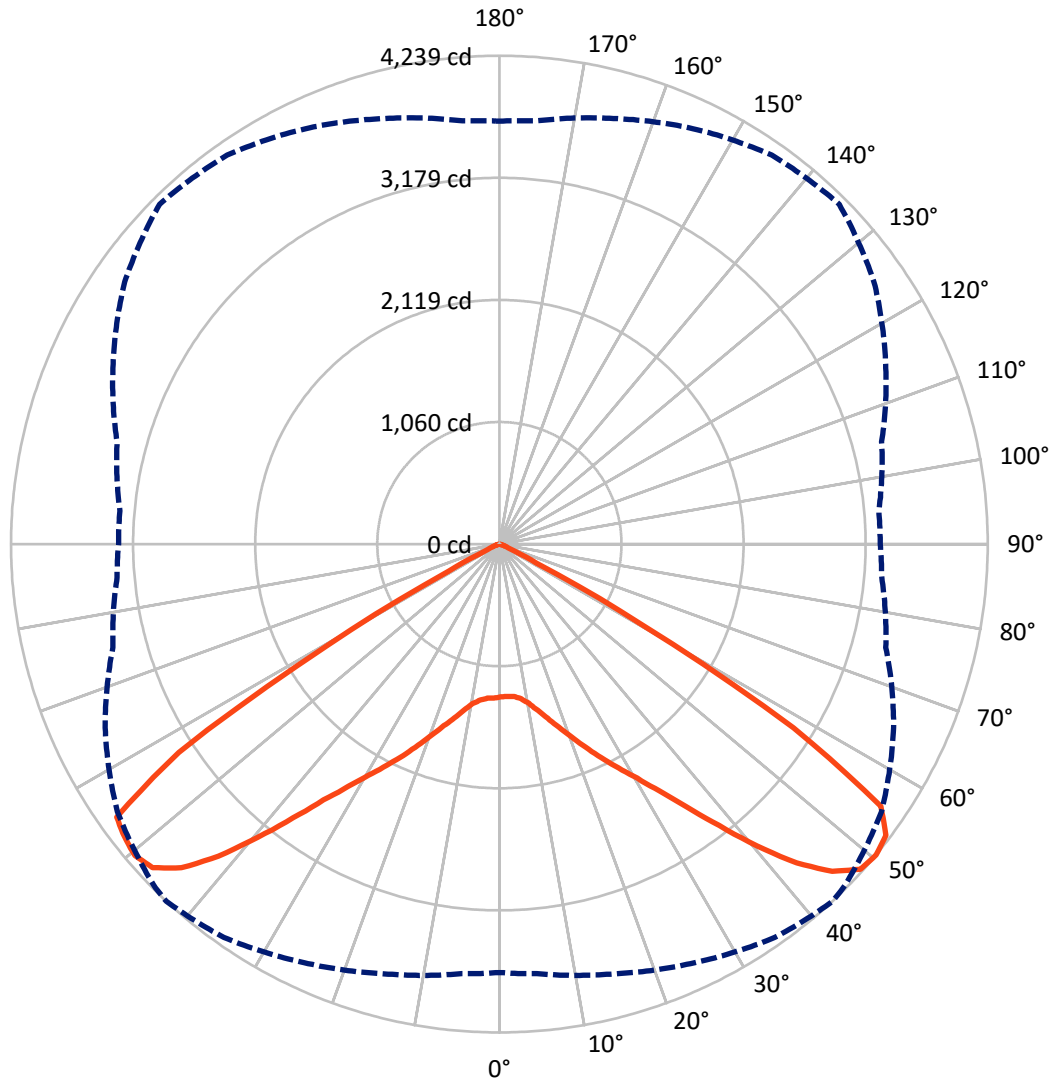
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 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	4663.5	0.0	4663.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4663.7	0.0	4663.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	9327.2	0.0	9327.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	1.4
10°-20°	449.6	4.8
20°-30°	909.6	9.8
30°-40°	1687.6	18.1
40°-50°	2801.3	30.0
50°-60°	2858.9	30.7
60°-70°	468.8	5.0
70°-80°	20.5	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°	9327.2	100.0
0°-180°	9327.2	100.0

Coefficient of Utilization



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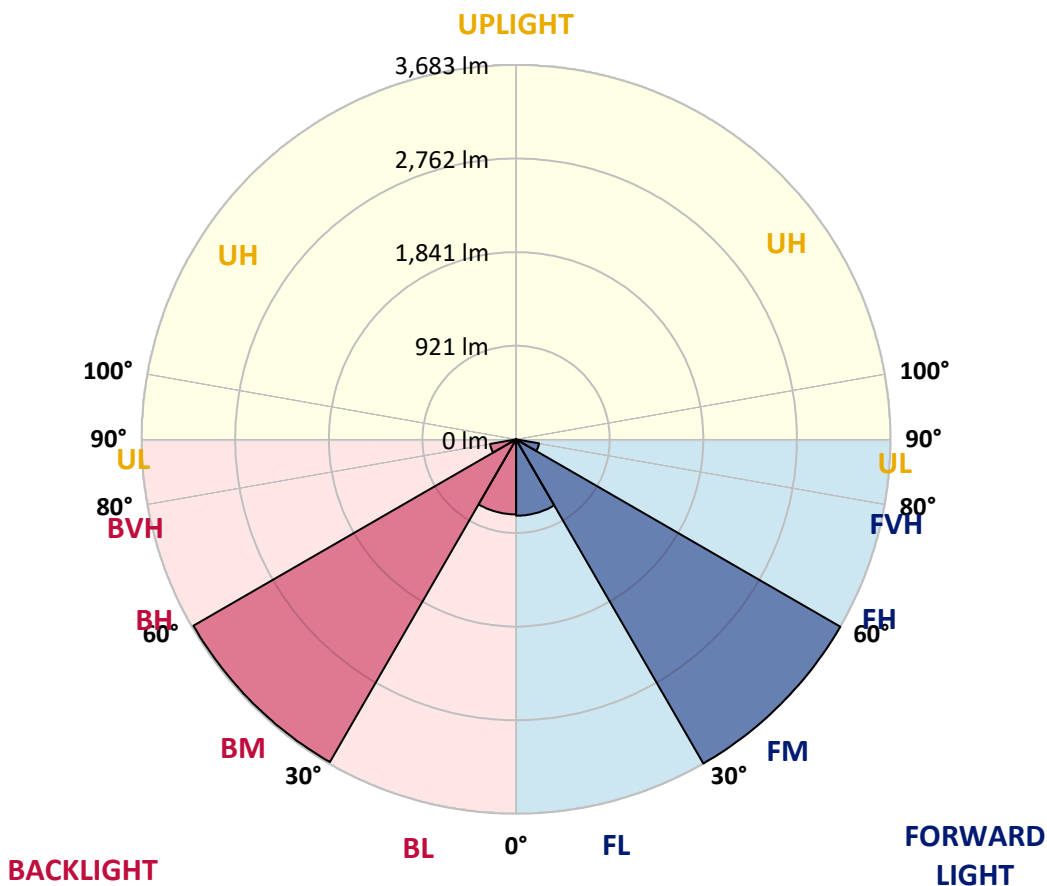
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	751.4	8.1			
FM (30°-60°)	3682.8	39.5			
FH (60°-80°)	229.3	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	738.4	7.9	B2/1000		
BM (30°-60°)	3664.9	39.3	B3/5000		
BH (60°-80°)	260.0	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°	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6
2.5°	1301.9	1305.0	1309.1	1313.2	1318.4	1323.6	1326.6	1335.9	1333.9	1342.1	1342.1
5°	1287.4	1290.5	1295.7	1305.0	1316.3	1327.7	1335.9	1354.5	1364.8	1381.3	1387.5
7.5°	1294.7	1298.8	1305.0	1319.4	1337.0	1354.5	1363.8	1393.7	1414.3	1445.3	1462.8
10°	1318.4	1322.5	1332.8	1357.6	1380.3	1405.0	1416.4	1454.6	1487.6	1529.9	1554.6
12.5°	1345.2	1350.4	1371.0	1408.1	1447.3	1480.4	1495.8	1538.1	1572.2	1619.6	1658.8
15°	1373.1	1381.3	1413.3	1468.0	1523.7	1568.0	1584.5	1629.9	1664.0	1714.5	1758.9
17.5°	1438.1	1447.3	1483.5	1542.3	1618.6	1670.2	1684.6	1732.1	1757.9	1791.9	1838.3
20°	1519.6	1537.1	1581.5	1652.6	1736.2	1785.7	1796.0	1842.5	1840.4	1854.8	1895.1
22.5°	1620.7	1633.0	1681.5	1766.1	1860.0	1914.7	1938.4	1958.0	1932.2	1919.8	1945.6
25°	1725.9	1740.3	1792.9	1885.8	1991.0	2053.9	2073.5	2089.0	2047.7	2001.3	2004.4
27.5°	1862.1	1872.4	1923.9	2023.0	2128.2	2199.4	2216.9	2243.7	2189.1	2114.8	2094.2
30°	2024.0	2034.3	2089.0	2193.2	2297.4	2358.3	2385.1	2418.1	2358.3	2265.4	2241.7
32.5°	2213.8	2224.1	2294.3	2401.6	2487.2	2553.2	2579.0	2614.1	2566.6	2462.4	2435.6
35°	2440.8	2447.0	2529.5	2646.1	2736.9	2800.8	2818.4	2859.6	2807.0	2702.8	2688.4
37.5°	2703.8	2711.1	2800.8	2936.0	3028.8	3100.0	3127.8	3139.2	3075.2	2958.6	2947.3
40°	2992.7	3016.4	3104.1	3249.6	3353.8	3443.5	3468.3	3430.1	3340.3	3181.5	3160.8
42.5°	3293.9	3314.6	3412.6	3570.4	3691.1	3782.9	3783.9	3701.4	3548.7	3329.0	3298.0
45°	3544.6	3552.9	3679.7	3838.6	3987.2	4052.2	4058.3	3908.8	3678.7	3414.6	3348.6
47.5°	3716.9	3730.3	3840.7	3993.4	4157.4	4216.2	4203.8	4017.1	3740.6	3470.3	3361.0
50°	3718.9	3741.6	3861.3	4008.8	4167.7	4238.9	4221.3	4048.0	3775.7	3472.4	3331.1
52.5°	3389.9	3427.0	3622.0	3835.5	4079.0	4200.7	4204.8	4088.3	3762.3	3439.4	3304.2
55°	2557.4	2597.6	2843.1	3207.3	3677.7	4017.1	4075.9	4040.8	3746.8	3453.8	3351.7
57.5°	1353.5	1322.5	1458.7	1819.8	2410.9	3011.3	3183.5	3464.1	3574.5	3471.4	3439.4
60°	295.0	314.6	418.8	564.3	940.8	1416.4	1584.5	2065.3	2636.8	2890.6	3074.2
62.5°	126.9	124.8	130.0	147.5	215.6	359.0	438.4	715.9	1129.6	1551.5	1837.3
65°	104.2	105.2	109.4	109.4	102.1	103.2	108.3	164.0	264.1	370.3	497.2
67.5°	78.4	79.4	86.7	88.7	83.6	74.3	73.2	61.9	65.0	81.5	84.6
70°	49.5	49.5	53.6	55.7	55.7	51.6	50.5	44.4	43.3	49.5	55.7
72.5°	26.8	26.8	28.9	29.9	28.9	27.9	27.9	26.8	25.8	29.9	38.2
75°	11.3	11.3	12.4	12.4	11.3	11.3	11.3	11.3	11.3	13.4	20.6
77.5°	2.1	3.1	4.1	3.1	2.1	2.1	2.1	3.1	3.1	4.1	6.2
80°	1.0	1.0	2.1	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6
2.5°	1349.3	1338.0	1342.1	1344.2	1341.1	1339.0	1327.7	1324.6	1319.4	1311.2	1309.1
5°	1394.7	1385.4	1384.4	1378.2	1363.8	1346.2	1324.6	1315.3	1305.0	1294.7	1292.6
7.5°	1471.1	1459.7	1452.5	1431.9	1398.9	1371.0	1334.9	1315.3	1301.9	1288.5	1285.4
10°	1569.1	1555.7	1535.0	1496.9	1452.5	1412.3	1370.0	1344.2	1323.6	1305.0	1304.0
12.5°	1673.3	1658.8	1621.7	1573.2	1519.6	1482.4	1428.8	1392.7	1361.7	1333.9	1330.8
15°	1782.6	1765.1	1714.5	1656.8	1607.2	1569.1	1510.3	1452.5	1405.0	1364.8	1360.7
17.5°	1866.2	1844.5	1784.7	1741.4	1701.1	1661.9	1595.9	1519.6	1456.6	1408.1	1396.8
20°	1918.8	1898.2	1841.4	1817.7	1799.1	1771.3	1692.9	1613.4	1543.3	1483.5	1473.1
22.5°	1969.3	1944.6	1895.1	1895.1	1909.5	1898.2	1813.6	1722.8	1640.3	1571.1	1555.7
25°	2026.1	2006.5	1971.4	2000.3	2036.4	2035.4	1948.7	1835.2	1740.3	1663.0	1647.5
27.5°	2108.6	2089.0	2076.6	2131.3	2176.7	2173.6	2078.7	1955.9	1855.9	1779.5	1765.1
30°	2254.1	2235.5	2222.1	2288.1	2345.9	2324.2	2220.0	2101.4	2000.3	1913.6	1903.3
32.5°	2448.0	2428.4	2410.9	2476.9	2528.5	2500.6	2401.6	2290.2	2173.6	2089.0	2068.4
35°	2702.8	2661.5	2644.0	2722.4	2744.1	2713.1	2618.2	2520.2	2396.4	2299.5	2286.0
37.5°	2965.9	2917.4	2905.0	2973.1	3008.2	2996.8	2885.4	2783.3	2649.2	2541.9	2526.4
40°	3190.8	3146.4	3124.7	3231.0	3310.4	3317.6	3217.6	3092.8	2934.9	2823.5	2795.7
42.5°	3322.8	3284.6	3279.5	3444.5	3574.5	3667.4	3547.7	3418.7	3252.7	3126.8	3104.1
45°	3352.7	3328.0	3371.3	3587.9	3790.1	3959.3	3857.2	3721.0	3541.5	3408.4	3386.8
47.5°	3349.6	3341.4	3418.7	3662.2	3918.0	4126.4	4075.9	3922.2	3748.9	3609.6	3589.0
50°	3305.3	3306.3	3435.3	3699.3	3969.6	4171.8	4121.3	3978.9	3824.2	3687.0	3670.5
52.5°	3287.7	3281.5	3404.3	3688.0	4022.2	4151.2	4037.7	3877.8	3705.5	3536.3	3511.6
55°	3349.6	3334.2	3408.4	3678.7	4028.4	4139.8	3840.7	3494.1	3141.2	2941.1	2924.6
57.5°	3442.5	3426.0	3461.0	3610.6	3705.5	3442.5	2826.6	2267.5	1904.3	1750.6	1683.6
60°	3074.2	3062.8	3036.0	2855.5	2449.0	1847.6	1258.6	802.6	576.7	466.3	466.3
62.5°	1907.4	1892.0	1746.5	1297.8	942.9	545.7	300.2	187.8	142.4	133.1	132.0
65°	535.4	532.3	440.5	311.5	198.1	122.8	108.3	110.4	108.3	105.2	104.2
67.5°	80.5	88.7	88.7	72.2	69.1	77.4	90.8	97.0	91.8	86.7	84.6
70°	51.6	55.7	53.6	46.4	49.5	57.8	65.0	66.0	62.9	57.8	56.7
72.5°	36.1	40.2	33.0	29.9	30.9	34.0	37.1	37.1	36.1	34.0	32.0
75°	21.7	21.7	15.5	14.4	14.4	15.5	15.5	17.5	17.5	16.5	15.5
77.5°	7.2	8.3	5.2	4.1	4.1	4.1	5.2	6.2	6.2	5.2	4.1
80°	1.0	2.1	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	1.0
82.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
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)