

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: P633296

Luminaire Tested: GWS-SA2E-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633296
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9456.8 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

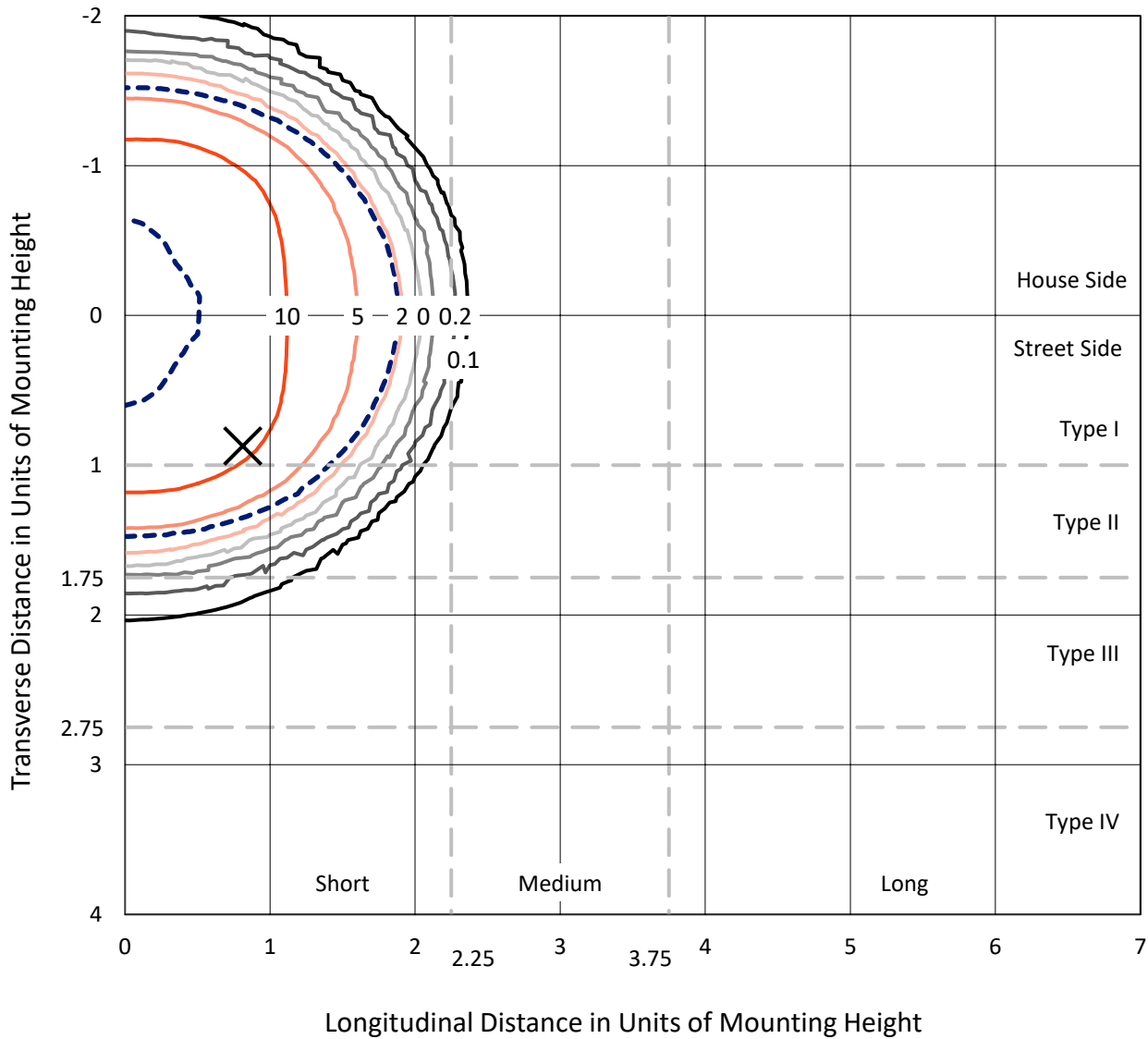
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

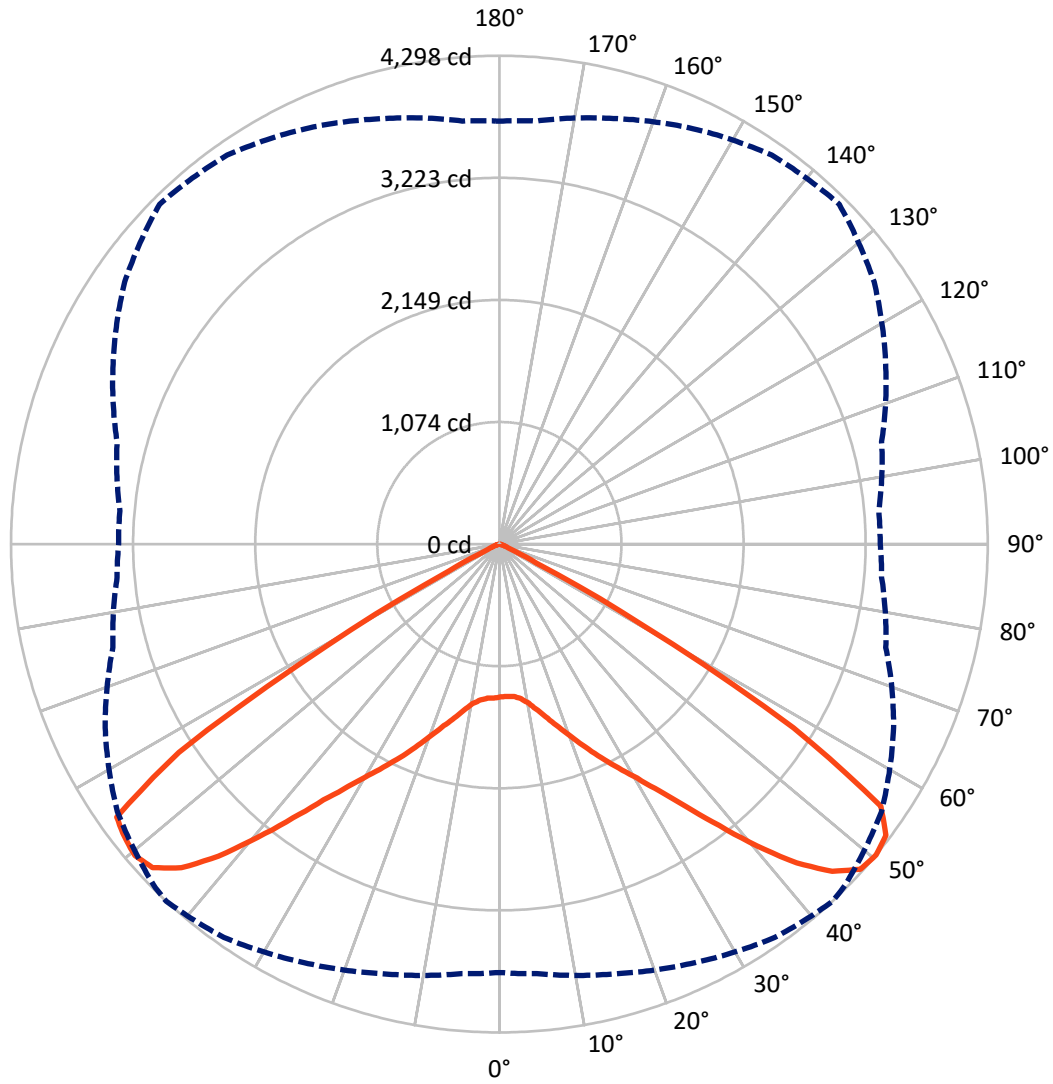
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 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	4728.3	0.0	4728.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4728.5	0.0	4728.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9456.8	0.0	9456.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	1.4
10°-20°	455.8	4.8
20°-30°	922.2	9.8
30°-40°	1711.0	18.1
40°-50°	2840.2	30.0
50°-60°	2898.6	30.7
60°-70°	475.3	5.0
70°-80°	20.8	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°	9456.8	100.0
0°-180°	9456.8	100.0

Coefficient of Utilization



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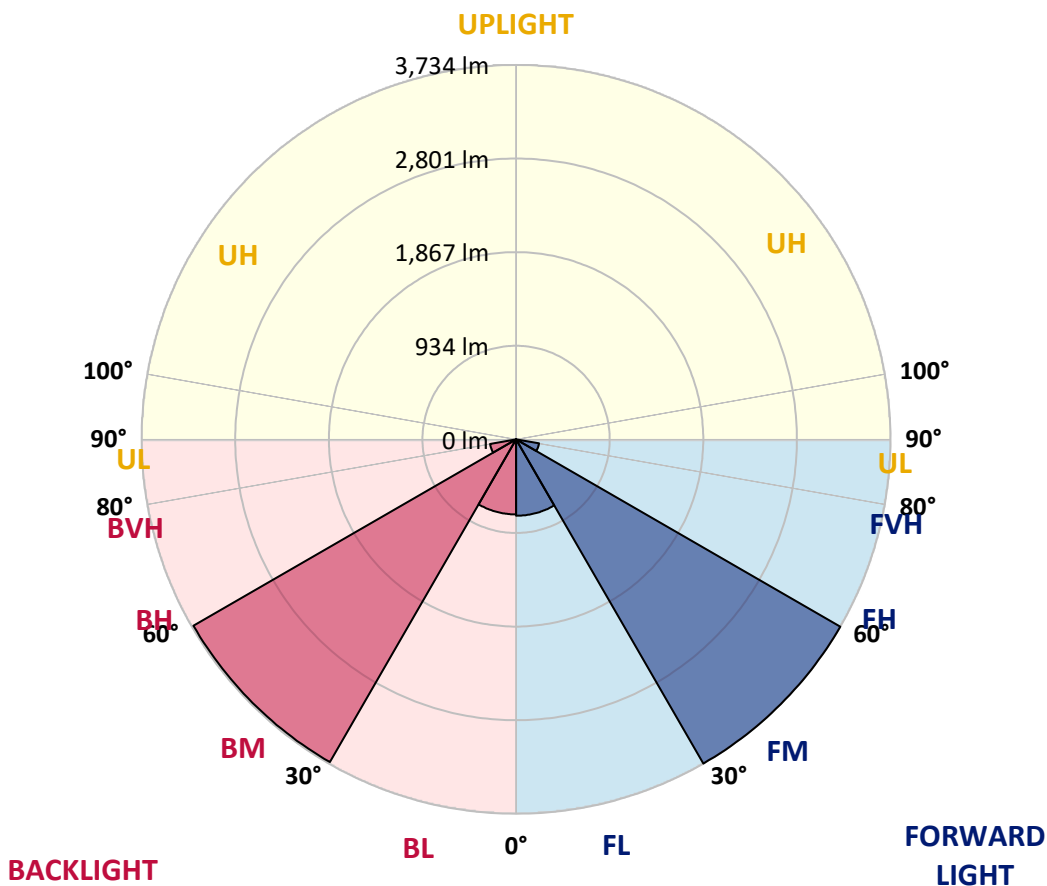
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	761.9	8.1			
FM (30°-60°)	3734.0	39.5			
FH (60°-80°)	232.5	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	748.6	7.9	B2/1000		
BM (30°-60°)	3715.9	39.3	B3/5000		
BH (60°-80°)	263.6	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°	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1320.0	1323.1	1327.3	1331.5	1336.7	1341.9	1345.1	1354.5	1352.4	1360.8	1360.8
5°	1305.3	1308.5	1313.7	1323.1	1334.6	1346.1	1354.5	1373.3	1383.8	1400.5	1406.8
7.5°	1312.7	1316.8	1323.1	1337.8	1355.5	1373.3	1382.7	1413.1	1434.0	1465.4	1483.1
10°	1336.7	1340.9	1351.4	1376.5	1399.5	1424.6	1436.1	1474.8	1508.2	1551.1	1576.2
12.5°	1363.9	1369.1	1390.1	1427.7	1467.5	1500.9	1516.6	1559.5	1594.0	1642.1	1681.9
15°	1392.1	1400.5	1432.9	1488.4	1544.9	1589.8	1606.6	1652.6	1687.1	1738.4	1783.3
17.5°	1458.0	1467.5	1504.1	1563.7	1641.1	1693.4	1708.0	1756.1	1782.3	1816.8	1863.9
20°	1540.7	1558.5	1603.4	1675.6	1760.3	1810.5	1821.0	1868.1	1866.0	1880.6	1921.4
22.5°	1643.2	1655.7	1704.9	1790.7	1885.8	1941.3	1965.3	1985.2	1959.0	1946.5	1972.6
25°	1749.9	1764.5	1817.8	1912.0	2018.7	2082.5	2102.3	2118.0	2076.2	2029.1	2032.3
27.5°	1887.9	1898.4	1950.7	2051.1	2157.8	2229.9	2247.7	2274.9	2219.5	2144.2	2123.3
30°	2052.1	2062.6	2118.0	2223.7	2329.3	2391.0	2418.2	2451.7	2391.0	2296.9	2272.8
32.5°	2244.6	2255.0	2326.2	2435.0	2521.8	2588.7	2614.9	2650.4	2602.3	2496.7	2469.5
35°	2474.7	2481.0	2564.6	2682.8	2774.9	2839.7	2857.5	2899.3	2846.0	2740.4	2725.7
37.5°	2741.4	2748.7	2839.7	2976.7	3070.9	3143.1	3171.3	3182.8	3118.0	2999.8	2988.3
40°	3034.3	3058.3	3147.2	3294.7	3400.4	3491.4	3516.5	3477.8	3386.8	3225.7	3204.8
42.5°	3339.7	3360.6	3460.0	3620.0	3742.4	3835.5	3836.5	3752.8	3598.0	3375.3	3343.9
45°	3593.9	3602.2	3730.9	3891.9	4042.6	4108.5	4114.7	3963.1	3729.8	3462.1	3395.1
47.5°	3768.5	3782.1	3894.0	4048.8	4215.1	4274.8	4262.2	4072.9	3792.6	3518.5	3407.7
50°	3770.6	3793.6	3915.0	4064.5	4225.6	4297.8	4280.0	4104.3	3828.1	3520.6	3377.3
52.5°	3437.0	3474.6	3672.3	3888.8	4135.7	4259.1	4263.3	4145.1	3814.5	3487.2	3350.1
55°	2592.9	2633.7	2882.6	3251.8	3728.8	4072.9	4132.5	4097.0	3798.9	3501.8	3398.3
57.5°	1372.3	1340.9	1479.0	1845.0	2444.4	3053.1	3227.8	3512.3	3624.2	3519.6	3487.2
60°	299.1	319.0	424.7	572.1	953.9	1436.1	1606.6	2094.0	2673.4	2930.7	3116.9
62.5°	128.7	126.6	131.8	149.6	218.6	364.0	444.5	725.9	1145.3	1573.1	1862.8
65°	105.6	106.7	110.9	110.9	103.5	104.6	109.8	166.3	267.8	375.5	504.1
67.5°	79.5	80.5	87.9	90.0	84.7	75.3	74.3	62.8	65.9	82.6	85.8
70°	50.2	50.2	54.4	56.5	56.5	52.3	51.3	45.0	43.9	50.2	56.5
72.5°	27.2	27.2	29.3	30.3	29.3	28.2	28.2	27.2	26.1	30.3	38.7
75°	11.5	11.5	12.6	12.6	11.5	11.5	11.5	11.5	11.5	13.6	20.9
77.5°	2.1	3.1	4.2	3.1	2.1	2.1	2.1	3.1	3.1	4.2	6.3
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°	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1368.1	1356.6	1360.8	1362.9	1359.7	1357.6	1346.1	1343.0	1337.8	1329.4	1327.3
5°	1414.1	1404.7	1403.7	1397.4	1382.7	1365.0	1343.0	1333.6	1323.1	1312.7	1310.6
7.5°	1491.5	1480.0	1472.7	1451.8	1418.3	1390.1	1353.4	1333.6	1320.0	1306.4	1303.2
10°	1590.9	1577.3	1556.4	1517.7	1472.7	1431.9	1389.0	1362.9	1341.9	1323.1	1322.1
12.5°	1696.5	1681.9	1644.2	1595.1	1540.7	1503.0	1448.6	1412.0	1380.6	1352.4	1349.3
15°	1807.4	1789.6	1738.4	1679.8	1629.6	1590.9	1531.3	1472.7	1424.6	1383.8	1379.6
17.5°	1892.1	1870.1	1809.5	1765.5	1724.8	1685.0	1618.1	1540.7	1476.9	1427.7	1416.2
20°	1945.5	1924.5	1867.0	1842.9	1824.1	1795.9	1716.4	1635.9	1564.7	1504.1	1493.6
22.5°	1996.7	1971.6	1921.4	1921.4	1936.0	1924.5	1838.8	1746.7	1663.0	1593.0	1577.3
25°	2054.2	2034.4	1998.8	2028.1	2064.7	2063.6	1975.8	1860.7	1764.5	1686.1	1670.4
27.5°	2137.9	2118.0	2105.5	2160.9	2206.9	2203.8	2107.6	1983.1	1881.6	1804.2	1789.6
30°	2285.4	2266.6	2253.0	2319.9	2378.5	2356.5	2250.9	2130.6	2028.1	1940.2	1929.8
32.5°	2482.0	2462.1	2444.4	2511.3	2563.6	2535.4	2435.0	2322.0	2203.8	2118.0	2097.1
35°	2740.4	2698.5	2680.7	2760.2	2782.2	2750.8	2654.6	2555.2	2429.7	2331.4	2317.8
37.5°	3007.1	2957.9	2945.4	3014.4	3050.0	3038.5	2925.5	2821.9	2686.0	2577.2	2561.5
40°	3235.1	3190.1	3168.2	3275.9	3356.4	3363.7	3262.3	3135.7	2975.7	2862.7	2834.5
42.5°	3369.0	3330.3	3325.0	3492.4	3624.2	3718.3	3597.0	3466.2	3297.9	3170.2	3147.2
45°	3399.3	3374.2	3418.1	3637.8	3842.8	4014.3	3910.8	3772.7	3590.7	3455.8	3433.8
47.5°	3396.2	3387.8	3466.2	3713.1	3972.5	4183.8	4132.5	3976.7	3800.9	3659.7	3638.8
50°	3351.2	3352.2	3483.0	3750.7	4024.8	4229.8	4178.5	4034.2	3877.3	3738.2	3721.5
52.5°	3333.4	3327.1	3451.6	3739.2	4078.1	4208.9	4093.8	3931.7	3757.0	3585.5	3560.4
55°	3396.2	3380.5	3455.8	3729.8	4084.4	4197.4	3894.0	3542.6	3184.9	2982.0	2965.2
57.5°	3490.3	3473.6	3509.1	3660.8	3757.0	3490.3	2865.9	2299.0	1930.8	1775.0	1707.0
60°	3116.9	3105.4	3078.2	2895.2	2483.1	1873.3	1276.0	813.7	584.7	472.8	472.8
62.5°	1933.9	1918.3	1770.8	1315.8	956.0	553.3	304.4	190.4	144.3	134.9	133.9
65°	542.8	539.7	446.6	315.9	200.8	124.5	109.8	111.9	109.8	106.7	105.6
67.5°	81.6	90.0	90.0	73.2	70.1	78.4	92.0	98.3	93.1	87.9	85.8
70°	52.3	56.5	54.4	47.1	50.2	58.6	65.9	66.9	63.8	58.6	57.5
72.5°	36.6	40.8	33.5	30.3	31.4	34.5	37.7	37.7	36.6	34.5	32.4
75°	22.0	22.0	15.7	14.6	14.6	15.7	15.7	17.8	17.8	16.7	15.7
77.5°	7.3	8.4	5.2	4.2	4.2	4.2	5.2	6.3	6.3	5.2	4.2
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)