

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: P633876

Luminaire Tested: GWS-SA2F-750-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-750-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10247.2 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

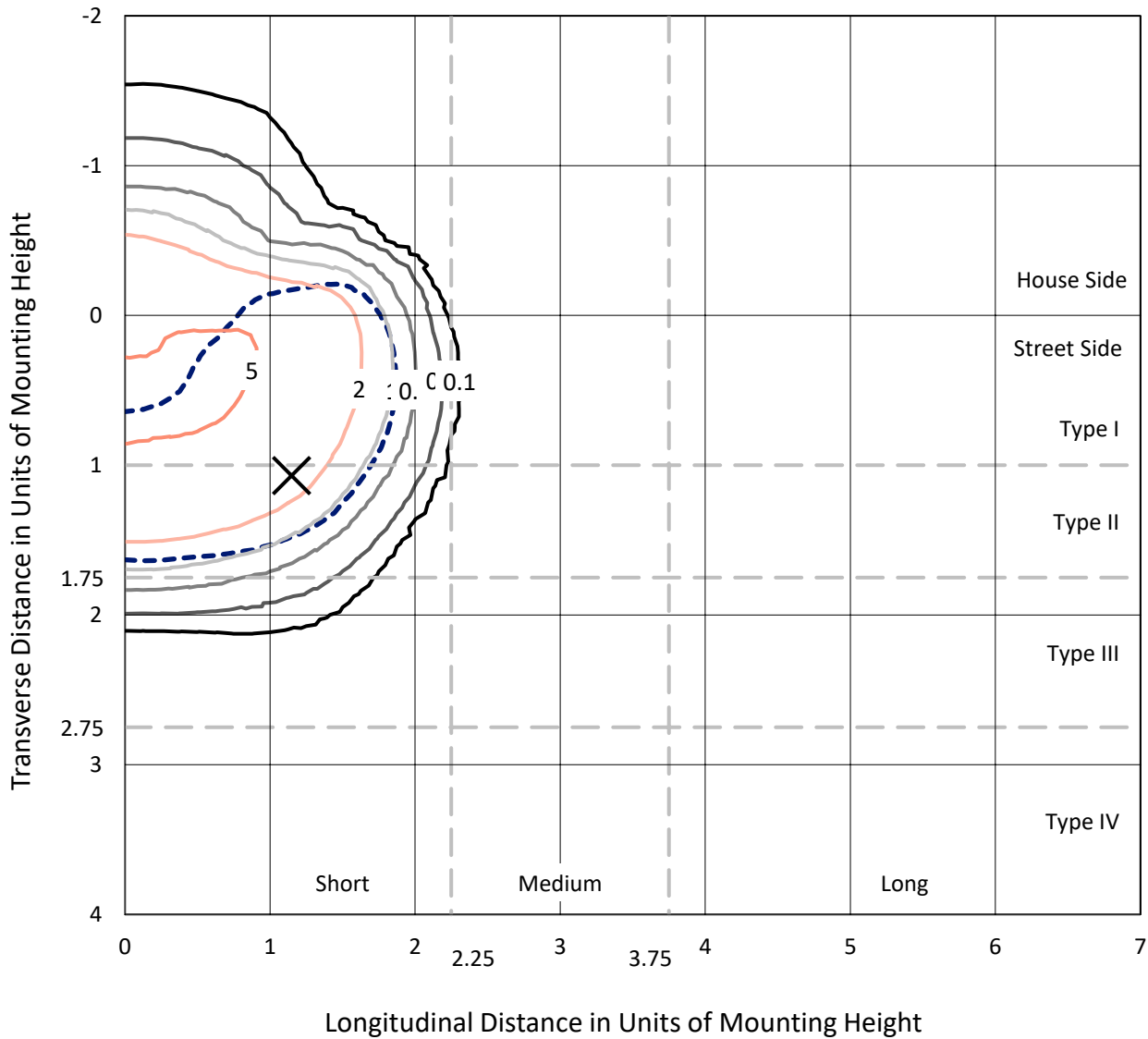
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

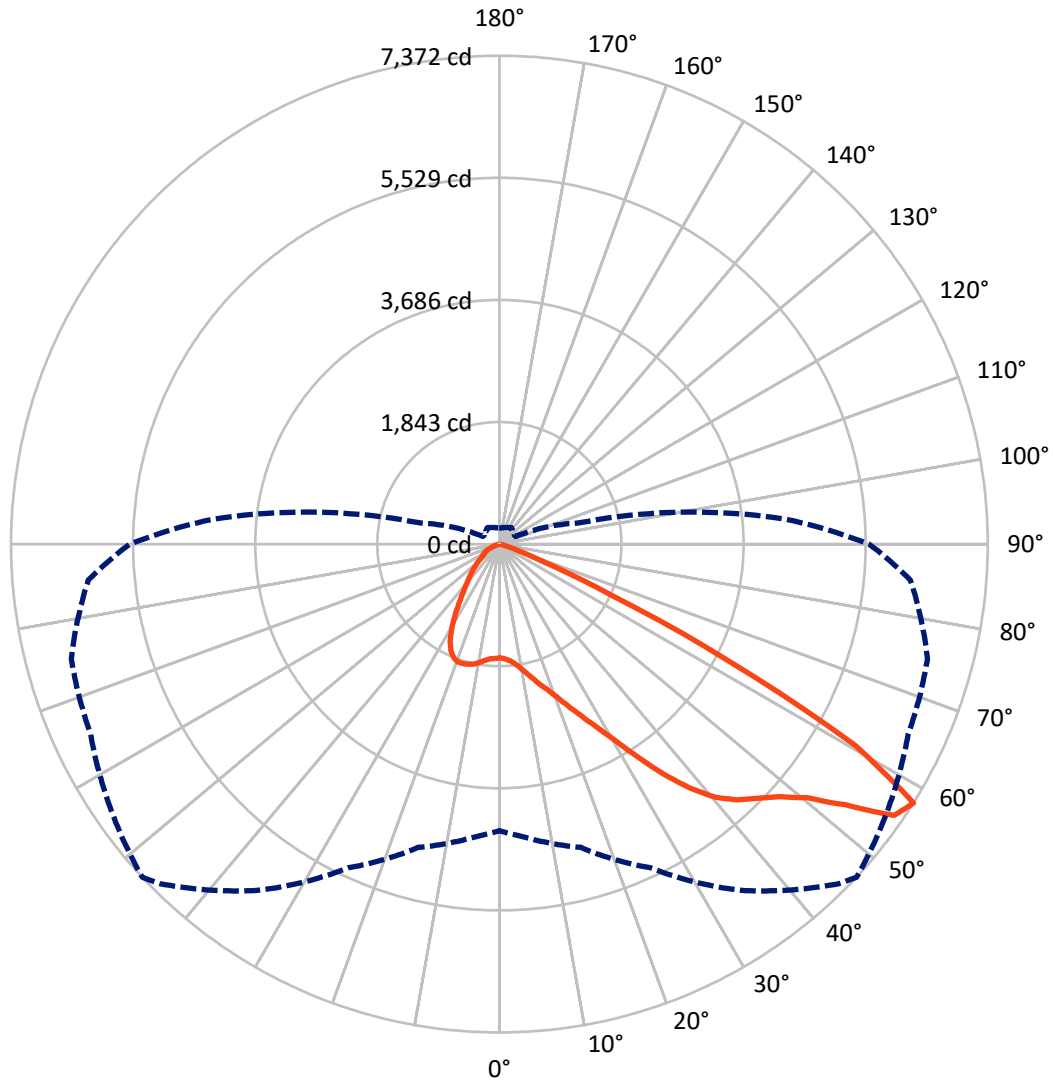
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

REPORT NUMBER: P633876
CATALOG NUMBER: GWS-SA2F-750-U-T3-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P633876

CATALOG NUMBER: GWS-SA2F-750-U-T3-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2223.1	0.0	2223.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8024.1	0.0	8024.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	10247.2	0.0	10247.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	1.7
10°-20°	575.8	5.6
20°-30°	1069.2	10.4
30°-40°	1711.6	16.7
40°-50°	2502.0	24.4
50°-60°	3087.9	30.1
60°-70°	1031.8	10.1
70°-80°	96.1	0.9
80°-90°	2.0	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°	10247.2	100.0
0°-180°	10247.2	100.0

Coefficient of Utilization



REPORT NUMBER: P633876

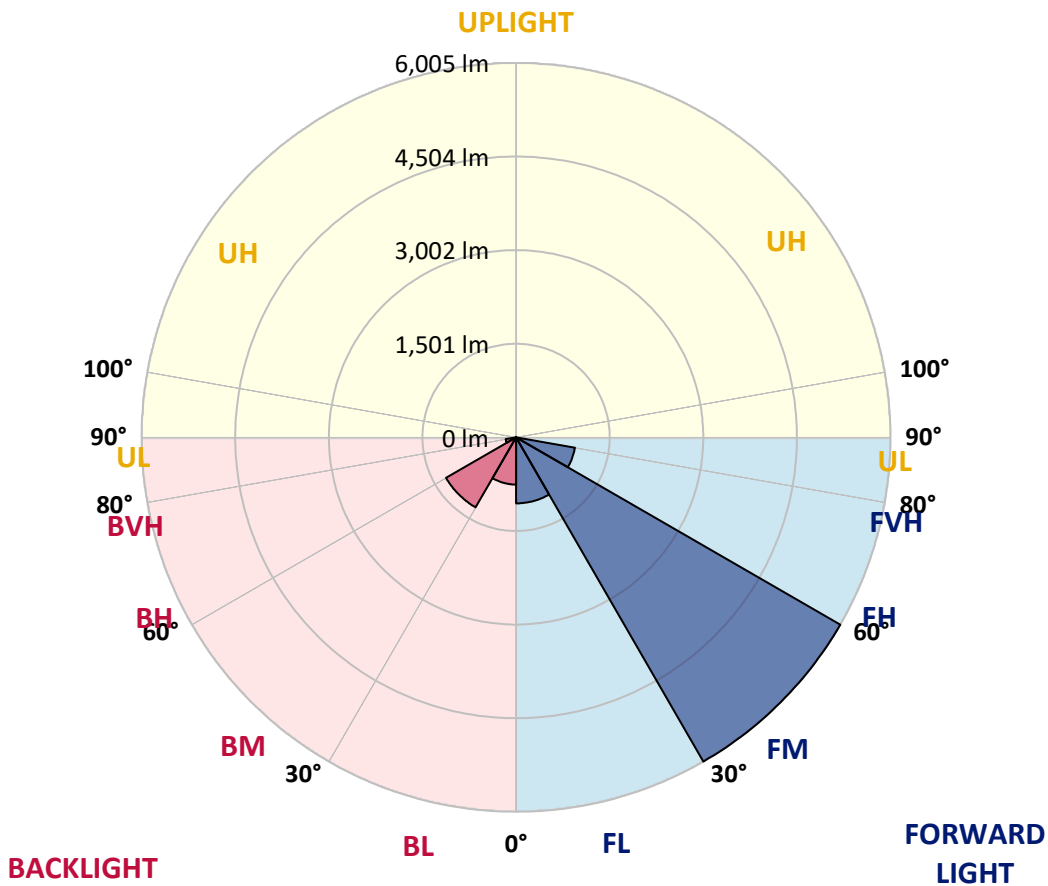
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.0	10.3			
FM (30°-60°)	6004.8	58.6			
FH (60°-80°)	958.9	9.4			G1/1800
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	756.7	7.4	B2/1000		
BM (30°-60°)	1296.8	12.7	B2/2500		
BH (60°-80°)	169.0	1.6	B1/500		G1/500
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P633876

CATALOG NUMBER: GWS-SA2F-750-U-T3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4
2.5°	1733.2	1732.0	1730.9	1738.0	1735.6	1734.4	1736.8	1736.8	1736.8	1729.7	1715.4
5°	1774.9	1774.9	1773.7	1780.8	1774.9	1771.3	1772.5	1772.5	1767.7	1754.6	1736.8
7.5°	1840.3	1837.9	1835.5	1842.7	1836.7	1835.5	1837.9	1830.8	1822.5	1801.0	1776.1
10°	1934.3	1934.3	1930.7	1937.8	1933.1	1930.7	1930.7	1926.0	1910.5	1877.2	1840.3
12.5°	2063.9	2058.0	2049.7	2043.7	2041.3	2040.2	2041.3	2034.2	2017.5	1974.7	1923.6
15°	2205.5	2200.7	2187.7	2178.1	2165.1	2162.7	2169.8	2163.9	2147.2	2088.9	2016.4
17.5°	2383.9	2389.9	2356.6	2336.4	2298.3	2295.9	2298.3	2307.8	2295.9	2221.0	2115.1
20°	2536.2	2541.0	2516.0	2501.7	2467.2	2451.8	2456.5	2472.0	2458.9	2370.9	2223.3
22.5°	2699.2	2705.1	2679.0	2649.2	2633.8	2633.8	2651.6	2673.0	2655.2	2539.8	2347.1
25°	2894.3	2899.0	2877.6	2838.4	2811.0	2845.5	2871.7	2928.8	2899.0	2742.0	2493.4
27.5°	3117.9	3119.1	3088.2	3047.7	3033.5	3097.7	3123.9	3211.9	3200.0	2969.2	2648.0
30°	3357.0	3358.2	3351.1	3323.7	3310.6	3395.1	3430.8	3558.1	3549.7	3251.2	2858.6
32.5°	3605.7	3605.7	3618.7	3616.4	3631.8	3769.8	3826.9	3972.0	3963.7	3596.1	3120.3
35°	3855.5	3856.7	3879.3	3936.4	4000.6	4183.8	4258.7	4434.8	4415.8	4008.9	3454.6
37.5°	4139.8	4127.9	4158.8	4244.5	4387.2	4599.0	4670.3	4838.1	4816.7	4431.2	3891.2
40°	4482.4	4461.0	4461.0	4560.9	4722.7	4966.5	5027.2	5110.5	5037.9	4772.6	4319.4
42.5°	4860.7	4840.5	4814.3	4902.3	5037.9	5228.3	5278.2	5255.6	5196.1	5095.0	4807.1
45°	5243.7	5212.8	5230.6	5284.2	5362.7	5453.1	5472.1	5367.4	5340.1	5368.6	5210.4
47.5°	5535.2	5513.8	5557.8	5632.7	5697.0	5710.0	5697.0	5551.8	5549.4	5650.6	5490.0
50°	5632.7	5635.1	5756.4	5920.6	6024.1	6034.8	6017.0	5850.4	5827.8	5857.6	5641.0
52.5°	5642.2	5651.8	5829.0	6141.9	6423.8	6552.3	6538.0	6358.4	6137.1	6105.0	5869.4
55°	5412.6	5468.6	5716.0	6172.8	6772.3	7182.8	7230.3	6886.6	6558.2	6530.9	6360.8
57.5°	4326.5	4440.7	4739.3	5390.0	6383.4	7248.2	7371.9	7124.5	6806.8	6690.3	6228.7
60°	2586.2	2727.7	3014.4	3812.6	4858.3	5957.5	6170.4	6204.9	6058.6	5721.9	4778.6
62.5°	1109.9	1098.0	1451.3	2062.8	2889.5	3786.5	3882.8	4032.7	4160.0	3807.9	2900.2
65°	380.7	414.0	575.8	930.3	1446.5	1758.2	1843.9	1978.3	2159.1	1782.0	1062.3
67.5°	235.5	249.8	331.9	549.6	780.4	768.5	730.4	709.0	690.0	472.3	291.5
70°	171.3	183.2	233.2	378.3	524.6	368.8	320.0	259.3	287.9	265.3	207.0
72.5°	115.4	124.9	160.6	229.6	268.8	179.6	166.5	189.1	228.4	217.7	168.9
75°	69.0	74.9	91.6	111.8	109.4	92.8	94.0	133.2	174.9	163.0	120.1
77.5°	47.6	50.0	60.7	72.6	53.5	28.6	26.2	36.9	59.5	59.5	40.4
80°	11.9	15.5	15.5	9.5	8.3	7.1	7.1	10.7	16.7	11.9	5.9
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
85°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
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°	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4
2.5°	1723.7	1709.4	1719.0	1716.6	1723.7	1726.1	1715.4	1713.0	1714.2	1699.9	1695.2
5°	1740.4	1723.7	1728.5	1723.7	1732.0	1739.2	1735.6	1740.4	1746.3	1735.6	1730.9
7.5°	1776.1	1759.4	1758.2	1751.1	1763.0	1767.7	1766.5	1779.6	1791.5	1784.4	1777.3
10°	1837.9	1815.3	1812.9	1807.0	1810.6	1814.1	1801.0	1803.4	1814.1	1805.8	1802.2
12.5°	1914.1	1886.7	1880.7	1866.5	1866.5	1848.6	1820.1	1814.1	1822.5	1816.5	1810.6
15°	1996.1	1959.3	1949.7	1924.8	1901.0	1867.7	1837.9	1830.8	1836.7	1829.6	1824.8
17.5°	2087.7	2046.1	2015.2	1971.2	1918.8	1879.6	1846.2	1830.8	1821.3	1807.0	1805.8
20°	2178.1	2123.4	2071.1	2000.9	1931.9	1872.4	1817.7	1777.3	1742.8	1721.3	1713.0
22.5°	2282.8	2201.9	2117.5	2018.7	1920.0	1829.6	1733.2	1664.2	1604.8	1584.5	1575.0
25°	2394.6	2290.0	2163.9	2035.4	1879.6	1734.4	1603.6	1501.3	1422.8	1396.6	1385.9
27.5°	2518.4	2374.4	2211.5	2031.8	1796.3	1598.8	1425.1	1297.8	1220.5	1196.7	1205.1
30°	2675.4	2483.9	2270.9	1994.9	1671.4	1408.5	1205.1	1098.0	1039.7	1017.1	1018.3
32.5°	2884.8	2640.9	2357.8	1916.4	1510.8	1192.0	1013.5	935.0	895.8	866.0	863.6
35°	3184.5	2880.0	2438.7	1790.3	1315.7	999.3	869.6	807.7	753.0	718.5	724.5
37.5°	3543.8	3181.0	2482.7	1620.2	1096.8	849.4	761.3	698.3	636.4	585.3	591.2
40°	3969.7	3574.7	2479.1	1396.6	897.0	747.1	670.9	597.2	519.9	473.5	478.2
42.5°	4444.3	3947.1	2401.8	1159.9	743.5	663.8	584.1	491.3	416.4	387.8	389.0
45°	4855.9	4249.2	2266.2	914.8	625.7	582.9	493.7	398.5	365.2	345.0	343.8
47.5°	5160.5	4470.5	2072.3	719.7	530.6	509.1	405.7	356.9	330.7	314.1	311.7
50°	5330.6	4547.8	1858.1	563.9	448.5	431.8	362.8	323.6	305.7	295.0	292.6
52.5°	5559.0	4640.6	1704.7	444.9	375.9	353.3	334.3	301.0	289.1	280.7	277.2
55°	5920.6	4820.2	1571.5	353.3	312.9	308.1	315.2	287.9	280.7	267.7	262.9
57.5°	5580.4	4330.1	1220.5	273.6	264.1	281.9	304.5	274.8	257.0	245.1	240.3
60°	3926.8	2878.8	613.8	220.1	235.5	264.1	286.7	248.6	230.8	233.2	230.8
62.5°	2165.1	1440.6	276.0	184.4	204.6	233.2	245.1	215.3	203.4	223.6	227.2
65°	707.8	490.1	159.4	142.8	161.8	190.3	211.7	204.6	202.2	226.0	233.2
67.5°	217.7	161.8	108.3	102.3	111.8	140.4	178.4	221.3	237.9	245.1	248.6
70°	163.0	127.3	92.8	86.8	91.6	107.1	151.1	184.4	173.7	174.9	172.5
72.5°	130.9	101.1	79.7	76.1	76.1	73.8	79.7	99.9	113.0	119.0	119.0
75°	91.6	71.4	60.7	55.9	44.0	35.7	32.1	32.1	28.6	27.4	26.2
77.5°	30.9	26.2	23.8	19.0	13.1	10.7	9.5	8.3	5.9	3.6	2.4
80°	4.8	3.6	2.4	2.4	2.4	1.2	1.2	1.2	0.0	0.0	0.0
82.5°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	0.0	0.0	0.0	0.0
85°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	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)