

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: P632749

Luminaire Tested: GWS-SA2D-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-735-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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: 6762.1 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

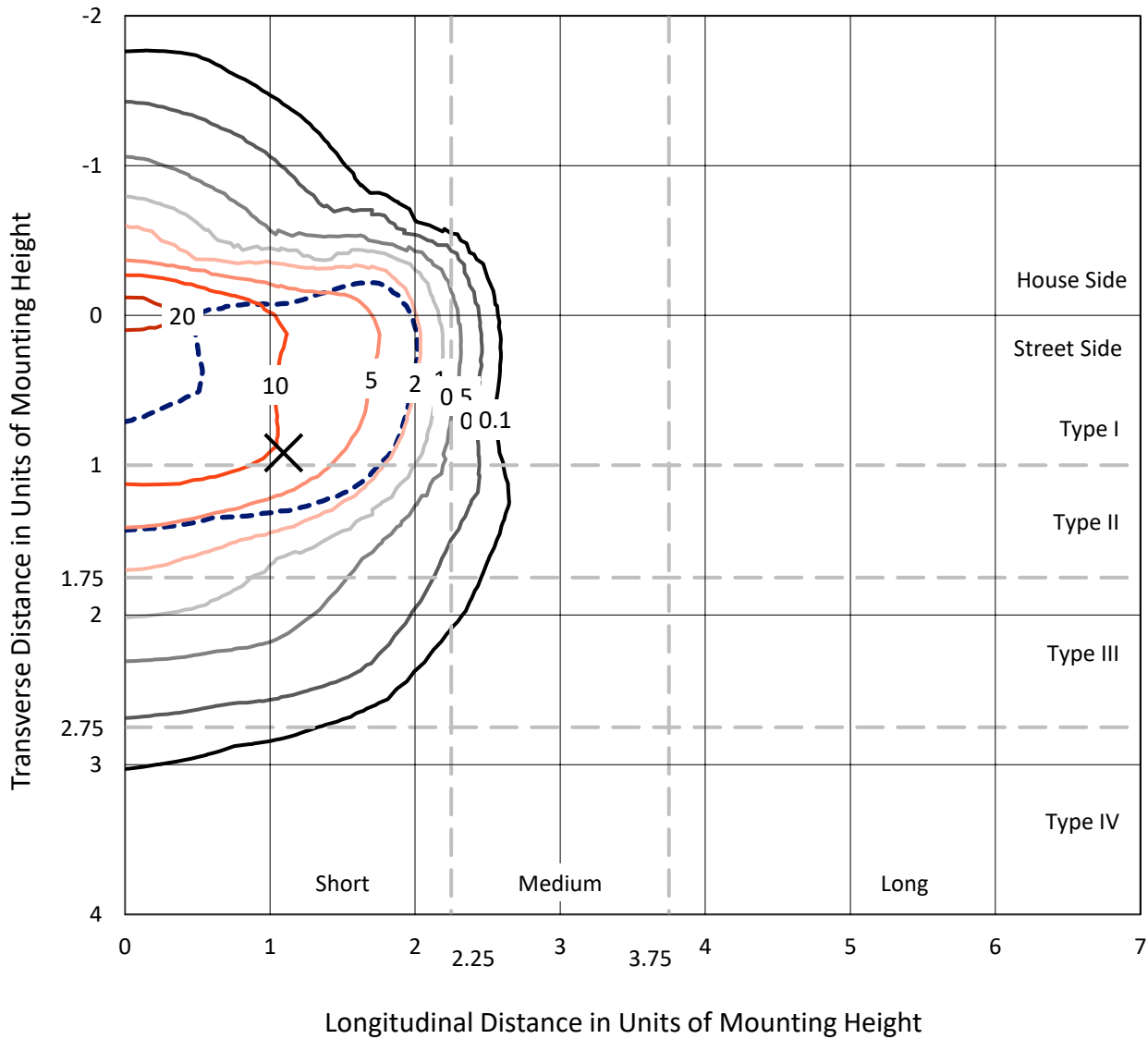
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

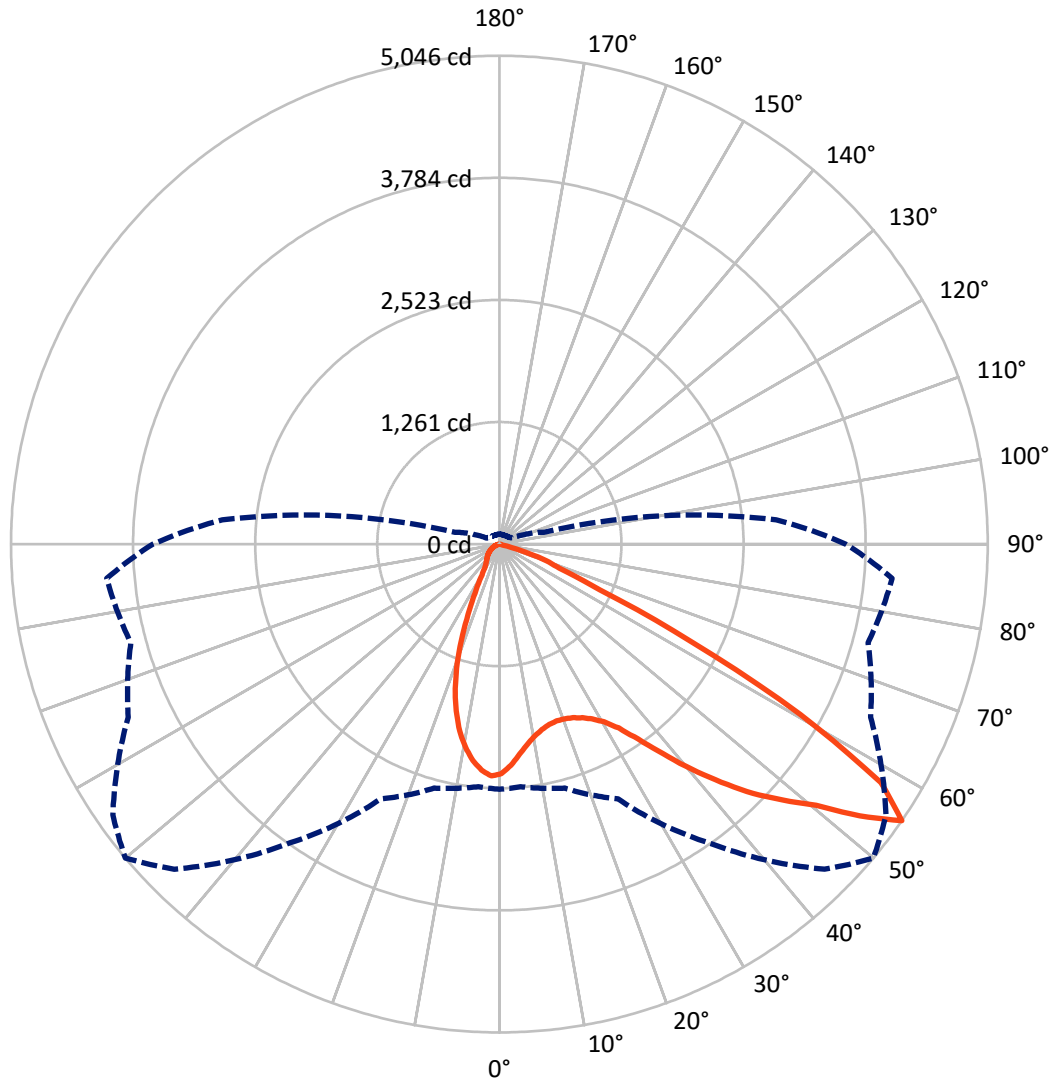
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1332.5	0.0	1332.5
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	5429.6	0.0	5429.6
	% Fixture	80.3	0.0	80.3
Total	Lumens	6762.1	0.0	6762.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	3.1
10°-20°	512.7	7.6
20°-30°	723.2	10.7
30°-40°	1070.2	15.8
40°-50°	1544.0	22.8
50°-60°	1821.3	26.9
60°-70°	812.4	12.0
70°-80°	69.8	1.0
80°-90°	0.0	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°	6762.1	100.0
0°-180°	6762.1	100.0

Coefficient of Utilization



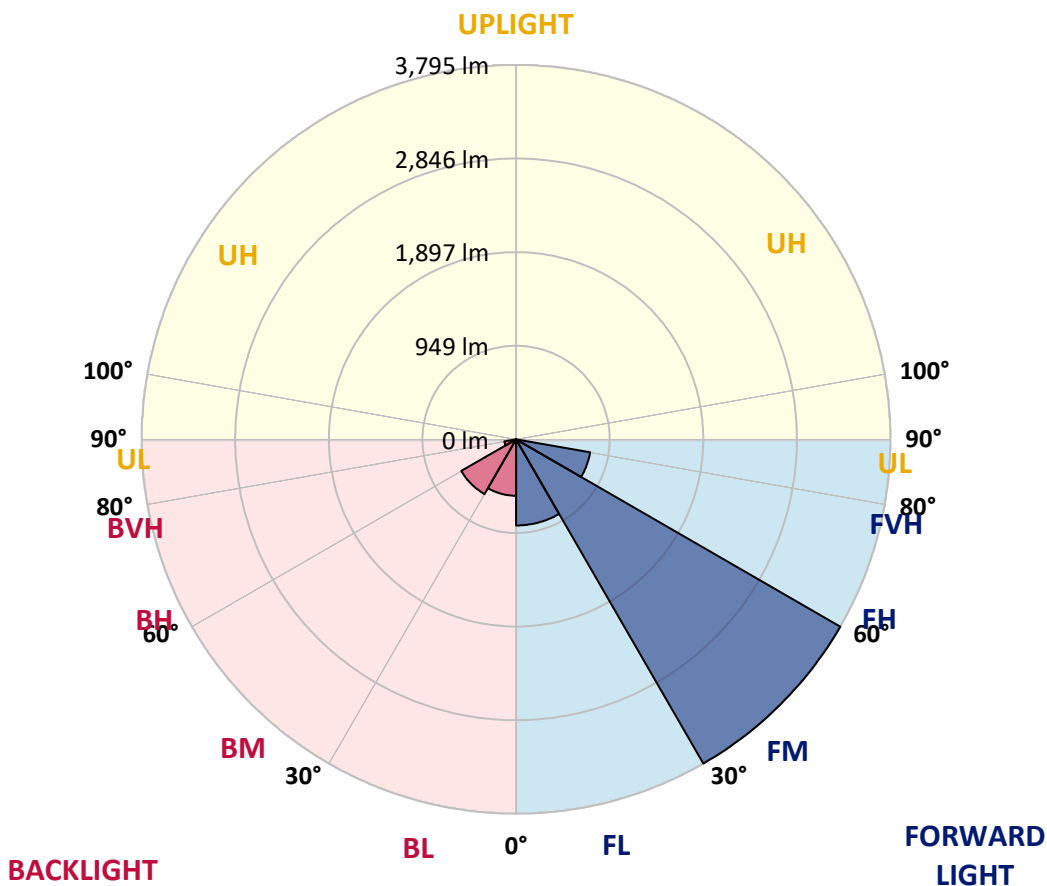
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.0	12.9			
FM (30°-60°)	3794.7	56.1			
FH (60°-80°)	762.0	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	571.3	8.4	B2/1000		
BM (30°-60°)	640.8	9.5	B1/1000		
BH (60°-80°)	120.3	1.8	B1/500		G1/500
BVH (80°-90°)	0.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5
2.5°	2204.1	2205.8	2206.6	2228.9	2237.1	2270.2	2287.5	2296.6	2320.5	2348.6	2371.7
5°	2056.3	2053.9	2058.0	2086.1	2104.2	2152.9	2179.4	2197.5	2250.3	2316.4	2371.7
7.5°	1927.6	1932.5	1937.5	1968.0	1995.3	2048.1	2086.1	2113.3	2186.8	2285.0	2378.3
10°	1836.8	1836.8	1844.2	1878.9	1911.1	1976.3	2014.2	2048.9	2136.4	2256.9	2385.7
12.5°	1769.9	1770.7	1779.8	1819.4	1856.6	1924.3	1963.9	1997.7	2094.3	2228.9	2387.4
15°	1738.5	1736.1	1743.5	1785.6	1826.9	1890.4	1931.7	1964.7	2064.6	2213.2	2395.6
17.5°	1730.3	1728.6	1734.4	1775.7	1817.8	1879.7	1920.1	1953.2	2060.5	2218.1	2420.4
20°	1754.2	1750.9	1748.4	1783.9	1823.6	1884.6	1926.7	1963.9	2080.3	2245.4	2458.4
22.5°	1811.2	1811.2	1805.4	1822.7	1849.1	1904.5	1948.2	1996.9	2132.3	2299.9	2514.5
25°	1916.0	1907.8	1897.0	1904.5	1901.2	1935.8	1987.8	2055.5	2230.5	2389.9	2583.0
27.5°	2035.7	2043.1	2025.0	2025.8	1996.9	1984.5	2044.8	2147.2	2376.6	2517.0	2684.6
30°	2198.3	2192.6	2193.4	2190.9	2124.0	2065.4	2130.6	2266.9	2560.7	2711.0	2816.6
32.5°	2325.5	2333.7	2361.0	2376.6	2289.1	2195.0	2264.4	2429.5	2770.4	2932.2	2978.4
35°	2460.0	2474.9	2530.2	2581.4	2507.9	2399.8	2474.1	2644.9	2967.7	3151.0	3164.2
37.5°	2602.0	2631.7	2697.8	2787.8	2776.2	2680.4	2748.1	2898.4	3122.9	3283.1	3317.7
40°	2764.6	2793.5	2901.7	3031.3	3058.5	3037.1	3059.3	3146.9	3225.3	3288.8	3383.8
42.5°	2942.9	2982.6	3119.6	3293.0	3395.3	3414.3	3362.3	3353.2	3269.9	3222.8	3369.7
45°	3153.5	3199.7	3354.9	3579.4	3742.0	3767.6	3677.7	3561.3	3297.9	3174.1	3327.6
47.5°	3389.6	3433.3	3587.7	3857.6	4099.5	4109.4	3952.6	3765.2	3381.3	3230.2	3359.8
50°	3468.8	3496.0	3629.8	3946.8	4392.5	4468.5	4241.5	3994.7	3548.9	3395.3	3516.7
52.5°	3196.4	3207.1	3323.5	3643.8	4333.1	4821.0	4663.3	4337.2	3846.9	3647.1	3758.6
55°	2532.7	2515.3	2609.4	2903.3	3766.0	4749.2	5045.5	4875.5	4230.7	3942.6	4073.1
57.5°	1771.5	1750.9	1729.4	1928.4	2810.0	4026.0	4649.3	4950.6	4596.4	4235.7	4412.4
60°	1456.2	1436.4	1332.4	1240.7	1698.9	2890.9	3571.2	4138.3	4566.7	4220.8	4401.6
62.5°	1258.1	1246.5	1204.4	1079.8	999.7	1650.2	2236.3	2779.5	3504.3	3314.4	3324.3
65°	988.1	984.8	1013.7	1026.9	884.1	913.0	1140.9	1444.6	1894.5	1786.4	1694.0
67.5°	675.3	667.8	722.3	888.3	850.3	720.7	667.8	673.6	819.7	501.1	397.9
70°	429.3	411.9	412.8	550.6	691.8	568.8	515.1	453.2	407.8	74.3	84.2
72.5°	274.9	264.2	227.0	248.5	320.3	277.4	279.8	241.0	161.0	39.6	46.2
75°	115.6	106.5	81.7	65.2	64.4	40.5	35.5	33.0	22.3	22.3	23.9
77.5°	0.8	0.0	0.0	0.8	1.7	0.8	0.8	1.7	3.3	5.0	5.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5
2.5°	2385.7	2365.9	2388.2	2396.5	2395.6	2396.5	2372.5	2356.0	2355.2	2334.5	2324.6
5°	2394.8	2379.1	2395.6	2384.9	2359.3	2327.1	2284.2	2247.0	2230.5	2206.6	2195.0
7.5°	2412.1	2395.6	2393.2	2350.2	2286.7	2219.0	2143.0	2075.3	2039.0	1995.3	1997.7
10°	2424.5	2405.5	2373.3	2285.8	2180.2	2072.0	1958.9	1858.2	1794.7	1736.1	1726.1
12.5°	2429.5	2401.4	2326.3	2194.2	2045.6	1904.5	1738.5	1594.9	1495.8	1419.1	1408.3
15°	2438.6	2393.2	2266.0	2083.6	1879.7	1679.9	1468.6	1272.1	1140.9	1052.5	1060.0
17.5°	2452.6	2384.1	2198.3	1959.8	1701.4	1419.1	1133.4	908.1	787.5	736.4	737.2
20°	2472.4	2373.3	2124.0	1823.6	1487.6	1124.3	792.5	622.4	588.6	586.9	584.5
22.5°	2498.8	2362.6	2044.8	1674.1	1234.1	787.5	527.5	474.7	488.7	515.9	520.9
25°	2530.2	2349.4	1956.5	1505.7	957.6	516.8	395.4	387.2	421.0	457.3	465.6
27.5°	2578.9	2342.8	1855.8	1314.2	672.0	370.7	323.6	328.6	359.1	389.6	397.1
30°	2661.4	2355.2	1746.0	1099.6	431.7	295.5	280.7	288.1	304.6	320.3	326.9
32.5°	2773.7	2391.5	1639.5	865.1	307.9	256.7	253.4	257.6	264.2	273.2	275.7
35°	2905.0	2454.2	1529.7	619.1	254.3	234.4	231.1	231.1	234.4	236.1	236.9
37.5°	3013.1	2520.3	1426.5	411.9	227.8	217.1	212.2	209.7	208.9	210.5	211.3
40°	3060.2	2547.5	1314.2	299.7	208.9	201.4	194.0	186.6	186.6	192.3	193.2
42.5°	3027.2	2517.0	1184.6	247.7	195.6	184.9	173.4	166.8	170.1	175.8	177.5
45°	2957.0	2441.9	1041.8	218.8	182.4	168.4	155.2	151.1	154.4	161.8	163.5
47.5°	2945.4	2392.3	870.9	199.8	168.4	154.4	140.3	136.2	140.3	146.1	147.8
50°	3060.2	2435.3	681.0	183.3	155.2	139.5	128.0	123.8	126.3	129.6	131.3
52.5°	3269.9	2594.6	549.8	167.6	139.5	124.7	117.2	112.3	112.3	115.6	116.4
55°	3579.4	2872.8	474.7	149.4	121.4	113.1	106.5	101.5	101.5	103.2	104.0
57.5°	3936.0	3209.6	492.0	125.5	106.5	102.4	96.6	92.5	94.1	94.1	94.1
60°	3886.5	3184.8	526.7	105.7	94.1	92.5	87.5	85.9	90.0	86.7	85.0
62.5°	2862.9	2200.0	275.7	86.7	80.9	79.2	75.9	79.2	85.0	75.9	72.6
65°	1390.2	1064.9	110.6	71.0	68.5	66.9	65.2	70.2	73.5	59.4	56.1
67.5°	326.9	265.8	71.8	60.3	57.0	53.7	55.3	56.1	53.7	40.5	38.8
70°	85.0	83.4	56.1	50.4	45.4	42.1	42.1	41.3	35.5	25.6	23.9
72.5°	46.2	45.4	40.5	38.0	31.4	28.1	28.9	25.6	19.8	14.9	14.0
75°	23.1	24.8	23.1	21.5	17.3	15.7	15.7	14.0	9.9	5.8	5.8
77.5°	5.0	5.8	5.8	5.0	4.1	3.3	3.3	4.1	1.7	0.0	0.0
80°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)