

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: P636740

Luminaire Tested: GWS-SA4B-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8953.7 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

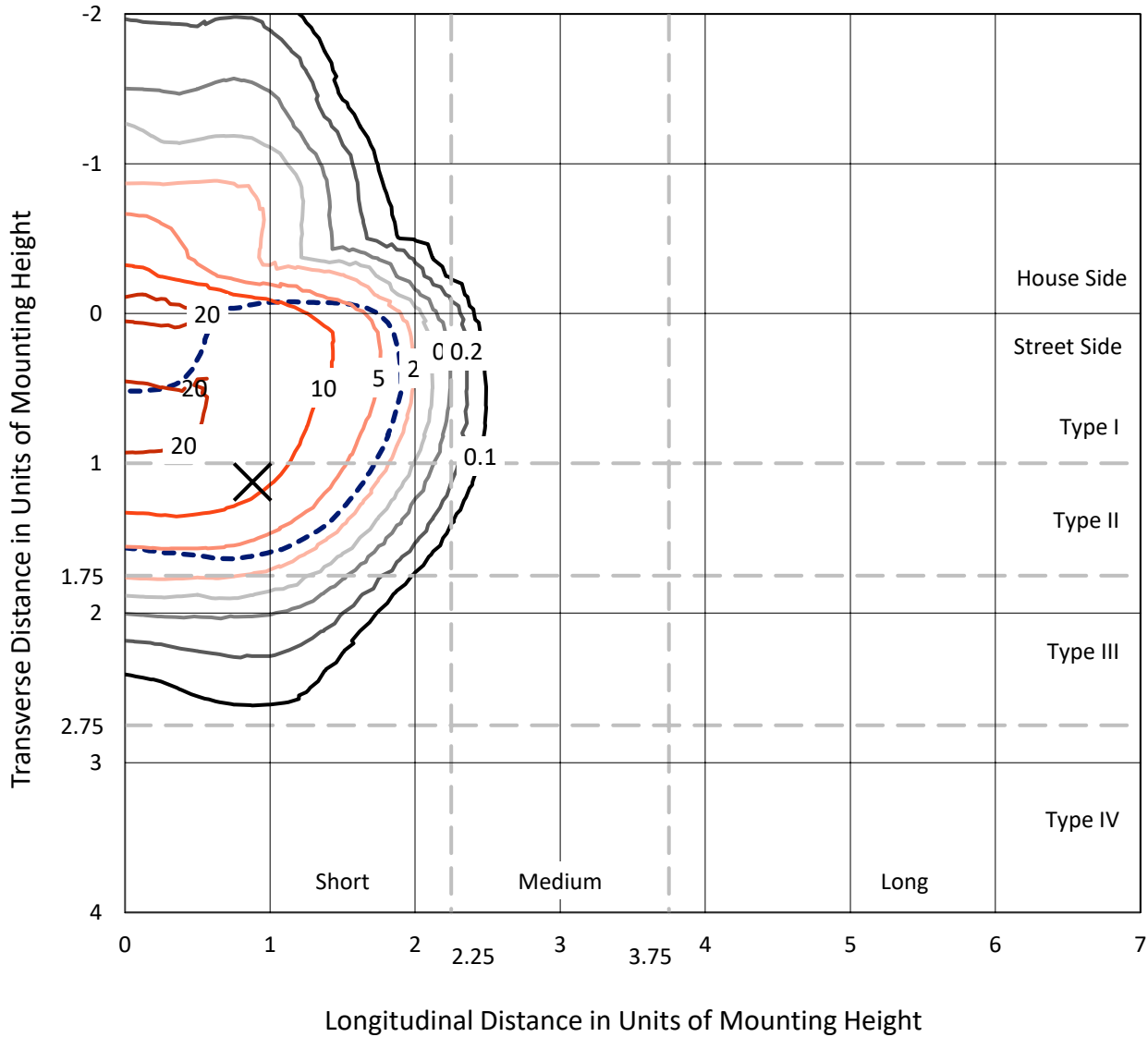
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

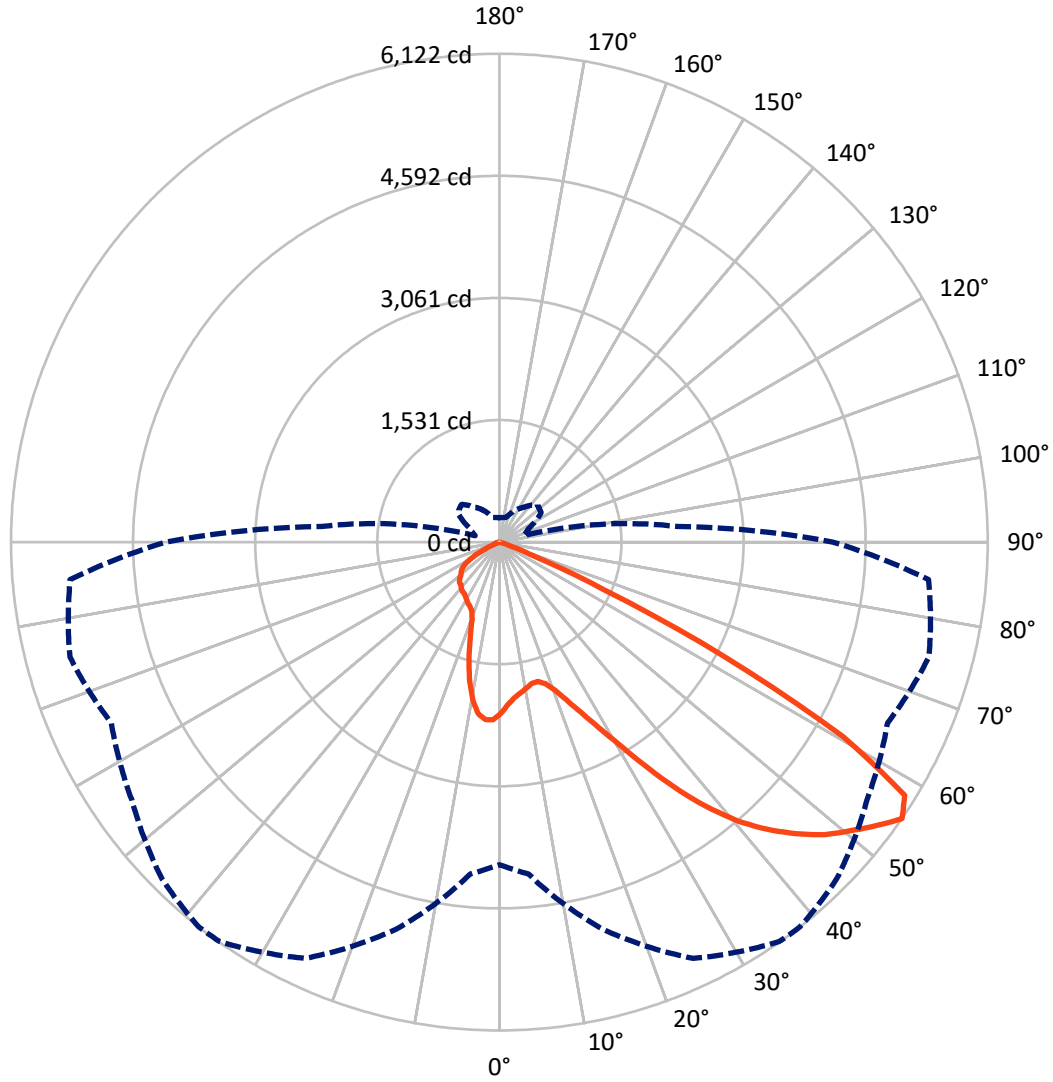
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1744.5	0.0	1744.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7209.2	0.0	7209.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	8953.7	0.0	8953.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	2.2
10°-20°	534.5	6.0
20°-30°	917.2	10.2
30°-40°	1521.2	17.0
40°-50°	2236.3	25.0
50°-60°	2613.1	29.2
60°-70°	885.8	9.9
70°-80°	45.3	0.5
80°-90°	1.8	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°	8953.7	100.0
0°-180°	8953.7	100.0

Coefficient of Utilization



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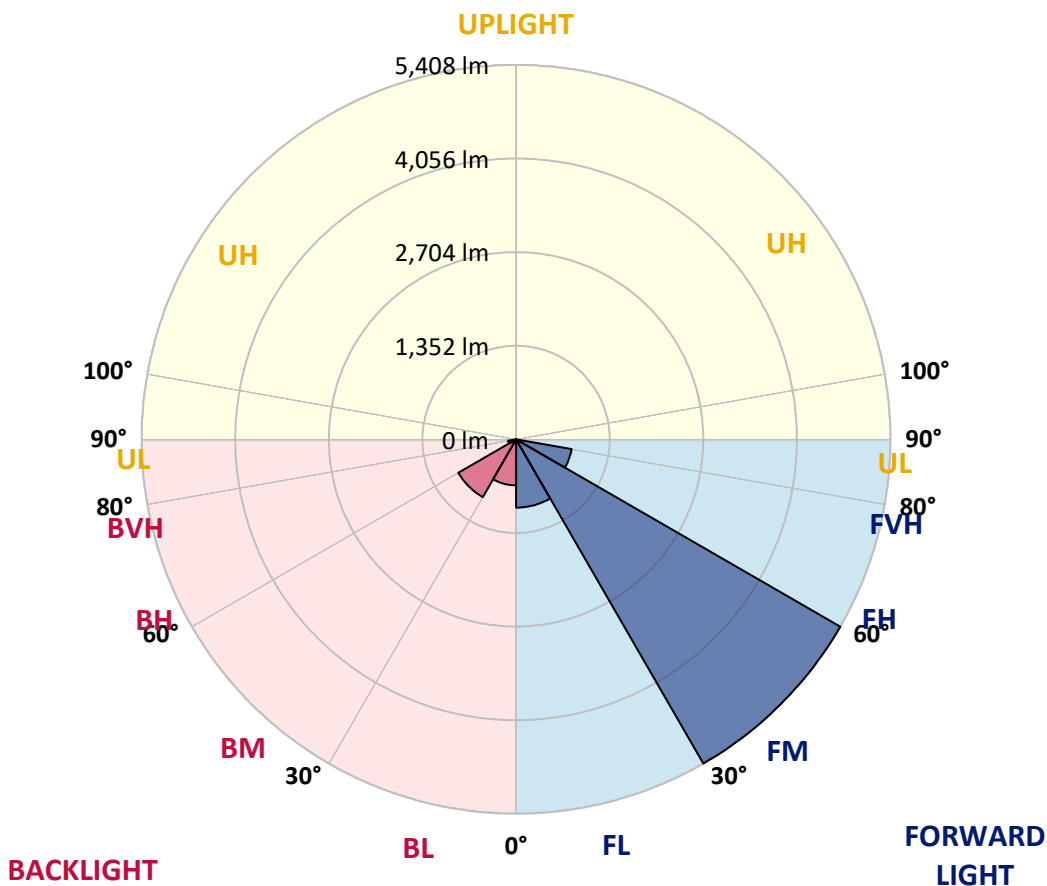
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	985.6	11.0			
FM (30°-60°)	5407.8	60.4			
FH (60°-80°)	814.9	9.1			G1/1800
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	664.6	7.4	B2/1000		
BM (30°-60°)	962.9	10.8	B1/1000		
BH (60°-80°)	116.1	1.3	B1/500		G1/500
BVH (80°-90°)	0.8	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°	38°	45°	55°	65°	75°	85°
0°	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2
2.5°	1999.8	1995.7	2003.9	2020.3	2035.6	2040.7	2056.1	2077.6	2090.9	2122.6	2148.2
5°	1909.7	1907.7	1915.9	1930.2	1950.7	1957.8	1981.4	2017.2	2053.0	2108.3	2162.5
7.5°	1827.9	1826.8	1839.1	1870.8	1900.5	1909.7	1938.4	1982.4	2030.5	2115.4	2195.3
10°	1720.4	1721.4	1745.0	1790.0	1844.2	1862.7	1908.7	1972.2	2034.6	2144.1	2254.6
12.5°	1685.6	1687.6	1699.9	1734.7	1794.1	1817.6	1882.1	1978.3	2058.1	2185.0	2331.4
15°	1770.5	1770.5	1760.3	1764.4	1791.0	1812.5	1880.0	1998.8	2098.0	2234.2	2407.1
17.5°	1935.3	1929.2	1903.6	1868.8	1859.6	1866.7	1921.0	2042.8	2154.3	2291.5	2493.1
20°	2158.4	2160.5	2110.3	2037.7	1979.3	1978.3	2011.0	2120.6	2235.2	2360.0	2586.2
22.5°	2428.6	2420.4	2353.9	2254.6	2153.3	2145.1	2158.4	2239.3	2351.9	2468.5	2700.8
25°	2741.8	2737.7	2643.5	2510.5	2376.4	2357.0	2357.0	2436.8	2518.7	2623.1	2838.0
27.5°	3069.3	3069.3	2978.2	2824.7	2646.6	2611.8	2606.7	2700.8	2755.1	2775.6	2953.6
30°	3406.0	3401.9	3311.8	3154.2	2963.9	2928.0	2913.7	2983.3	3022.2	2960.8	3097.9
32.5°	3747.8	3755.0	3663.9	3517.5	3347.7	3324.1	3280.1	3280.1	3311.8	3225.9	3325.1
35°	4115.2	4113.2	4041.5	3942.3	3796.9	3770.3	3697.7	3584.1	3632.2	3594.3	3639.3
37.5°	4439.7	4455.0	4420.2	4346.5	4228.8	4202.2	4082.5	3876.8	3913.6	3973.0	4012.9
40°	4769.2	4781.5	4816.3	4792.7	4644.3	4595.2	4382.3	4044.6	4085.6	4289.2	4403.8
42.5°	5092.6	5098.8	5169.4	5208.3	5009.7	4923.7	4609.5	4147.0	4189.9	4536.9	4737.5
45°	5298.3	5311.6	5428.3	5547.0	5332.1	5214.4	4807.1	4278.0	4296.4	4708.8	4984.1
47.5°	5290.1	5320.8	5539.9	5755.8	5609.4	5482.5	5044.5	4487.8	4457.1	4870.5	5146.9
50°	5125.4	5162.2	5476.4	5819.2	5809.0	5691.3	5308.6	4791.7	4695.5	5013.8	5167.3
52.5°	4783.5	4890.0	5364.8	5827.4	5969.7	5910.3	5635.0	5201.1	5017.9	5219.5	5200.1
55°	4044.6	4175.6	5026.1	5757.8	6115.0	6122.2	5977.9	5627.9	5367.9	5573.6	5401.7
57.5°	3070.3	3174.7	3868.6	5125.4	5874.5	5992.2	6110.9	5853.0	5583.9	5815.2	5448.8
60°	1850.4	1971.1	2422.5	3761.1	4744.6	4945.2	5410.9	5360.8	5036.3	5135.6	4468.3
62.5°	750.2	813.6	1118.6	2072.5	2986.4	3173.7	3619.9	3695.6	3615.8	3514.5	2710.1
65°	274.3	299.9	448.3	856.6	1373.4	1442.0	1677.4	1811.5	1922.0	1636.5	1008.1
67.5°	169.9	186.3	291.7	440.1	499.4	464.6	472.8	563.9	538.3	332.6	180.1
70°	125.9	139.2	228.2	305.0	201.6	155.6	105.4	112.6	101.3	89.0	88.0
72.5°	87.0	99.3	170.9	180.1	77.8	55.3	38.9	54.2	61.4	60.4	62.4
75°	57.3	66.5	107.5	70.6	19.4	15.4	13.3	28.7	36.8	36.8	37.9
77.5°	33.8	38.9	37.9	14.3	4.1	4.1	3.1	5.1	8.2	9.2	11.3
80°	4.1	3.1	2.0	2.0	2.0	2.0	2.0	2.0	3.1	3.1	3.1
82.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	3.1	3.1
85°	0.0	0.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	3.1	3.1
87.5°	0.0	0.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	3.1	3.1
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°	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2
2.5°	2167.6	2160.5	2190.2	2211.6	2229.0	2237.2	2226.0	2224.9	2224.9	2202.4	2196.3
5°	2193.2	2196.3	2238.3	2256.7	2259.7	2249.5	2223.9	2206.5	2196.3	2172.8	2159.4
7.5°	2242.3	2252.6	2292.5	2289.4	2261.8	2214.7	2147.2	2095.0	2061.2	2024.4	2001.8
10°	2313.0	2332.4	2357.0	2314.0	2226.0	2106.2	1967.0	1867.8	1808.4	1766.4	1740.9
12.5°	2398.9	2418.4	2410.2	2308.9	2125.7	1911.8	1732.7	1589.4	1520.8	1483.0	1456.3
15°	2485.9	2498.2	2445.0	2247.5	1948.6	1661.0	1461.5	1319.2	1235.3	1204.6	1182.1
17.5°	2575.0	2571.9	2451.1	2126.7	1712.2	1378.6	1182.1	1084.8	1061.3	1056.2	1054.1
20°	2668.1	2640.5	2426.6	1953.7	1427.7	1099.2	987.6	993.8	1036.7	1057.2	1061.3
22.5°	2774.5	2704.9	2365.2	1719.4	1137.0	916.0	927.2	987.6	1046.0	1073.6	1077.7
25°	2888.1	2764.3	2262.8	1418.5	896.5	842.3	908.8	978.4	1040.8	1074.6	1078.7
27.5°	2962.8	2778.6	2095.0	1115.5	769.6	813.6	884.2	950.8	1015.2	1052.1	1057.2
30°	3043.7	2772.5	1866.7	859.7	726.6	789.1	850.5	910.9	970.2	1011.2	1015.2
32.5°	3162.4	2768.4	1588.4	698.0	709.2	769.6	814.7	864.8	905.7	929.3	926.2
35°	3318.0	2763.3	1263.9	629.4	699.0	754.3	790.1	813.6	768.6	754.3	757.3
37.5°	3517.5	2775.6	990.7	600.8	695.9	750.2	780.9	713.3	643.7	617.1	613.0
40°	3738.6	2807.3	755.3	589.5	706.2	760.4	746.1	634.5	548.6	496.4	485.1
42.5°	3960.7	2842.1	597.7	585.4	723.6	789.1	688.8	577.2	448.3	418.6	414.5
45°	4125.5	2835.9	516.8	578.2	738.9	805.4	673.4	495.3	400.2	386.9	387.9
47.5°	4208.4	2768.4	472.8	561.9	745.1	789.1	635.6	461.6	367.4	381.7	394.0
50°	4164.4	2593.4	431.9	530.1	731.8	767.6	575.2	436.0	351.0	410.4	438.0
52.5°	4111.1	2378.5	386.9	481.0	700.0	737.9	551.6	428.8	340.8	396.1	416.5
55°	4181.8	2242.3	313.2	405.3	637.6	668.3	533.2	427.8	317.3	308.1	305.0
57.5°	4082.5	1971.1	224.1	291.7	489.2	529.1	519.9	420.6	281.4	280.4	284.5
60°	3155.2	1202.5	153.5	185.2	299.9	337.7	471.8	402.2	242.6	223.1	224.1
62.5°	1793.1	511.7	105.4	114.6	153.5	182.2	360.2	365.4	224.1	212.9	224.1
65°	624.3	183.2	81.9	76.8	84.9	97.2	206.7	282.5	203.7	184.2	186.3
67.5°	129.0	91.1	72.7	63.5	63.5	63.5	105.4	176.0	167.8	146.4	148.4
70°	81.9	77.8	63.5	54.2	52.2	48.1	60.4	97.2	115.6	106.4	107.5
72.5°	60.4	59.4	50.1	44.0	38.9	34.8	37.9	48.1	59.4	61.4	62.4
75°	36.8	37.9	32.7	27.6	24.6	21.5	22.5	22.5	22.5	20.5	22.5
77.5°	11.3	12.3	10.2	8.2	7.2	7.2	7.2	6.1	5.1	3.1	3.1
80°	3.1	3.1	3.1	3.1	3.1	2.0	2.0	1.0	1.0	0.0	0.0
82.5°	3.1	3.1	3.1	3.1	2.0	2.0	1.0	1.0	0.0	0.0	0.0
85°	3.1	3.1	3.1	3.1	2.0	2.0	1.0	1.0	0.0	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	2.0	2.0	1.0	1.0	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)