

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: P636850

Luminaire Tested: GWS-SA4B-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636850
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9286.2 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

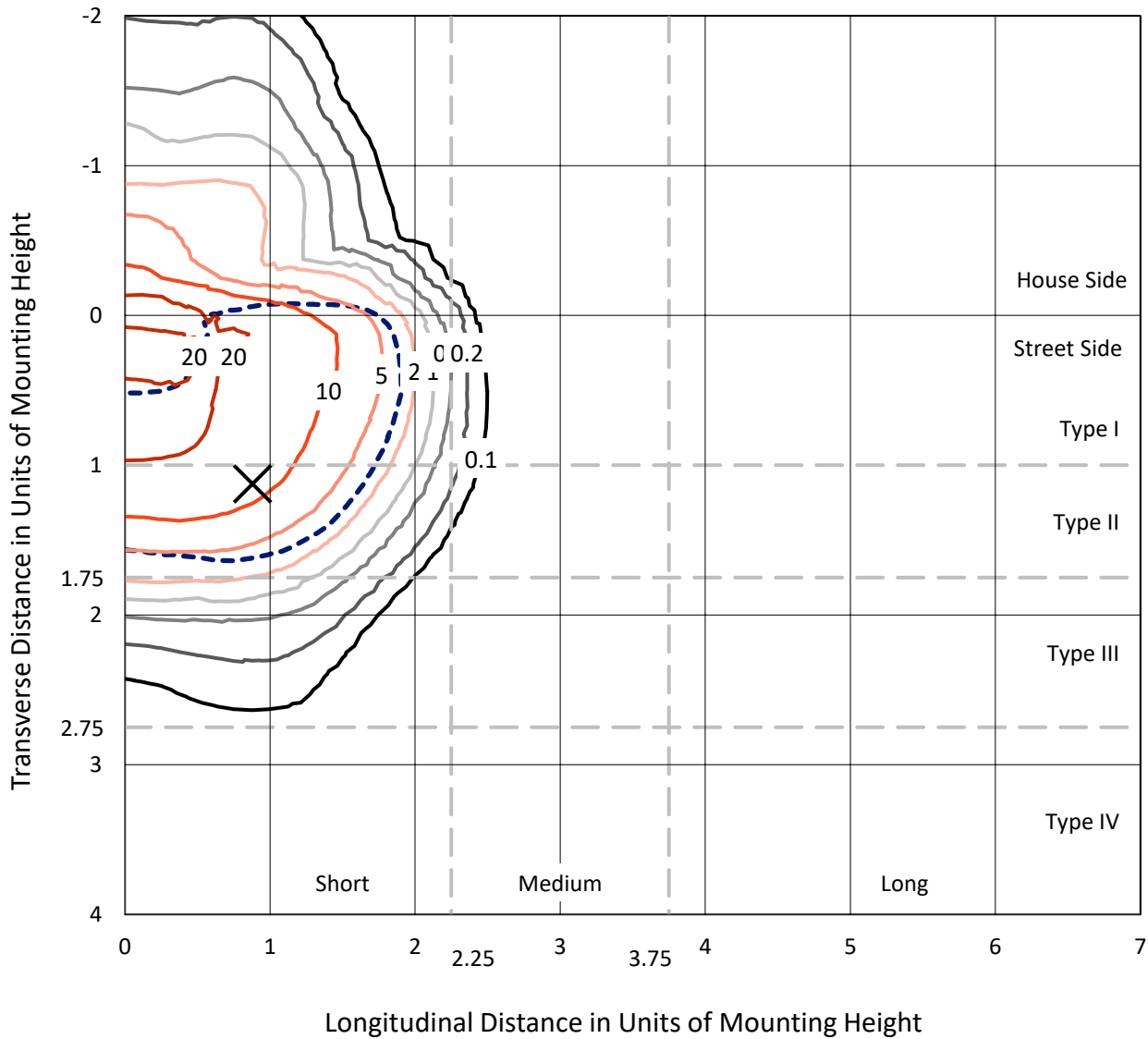
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

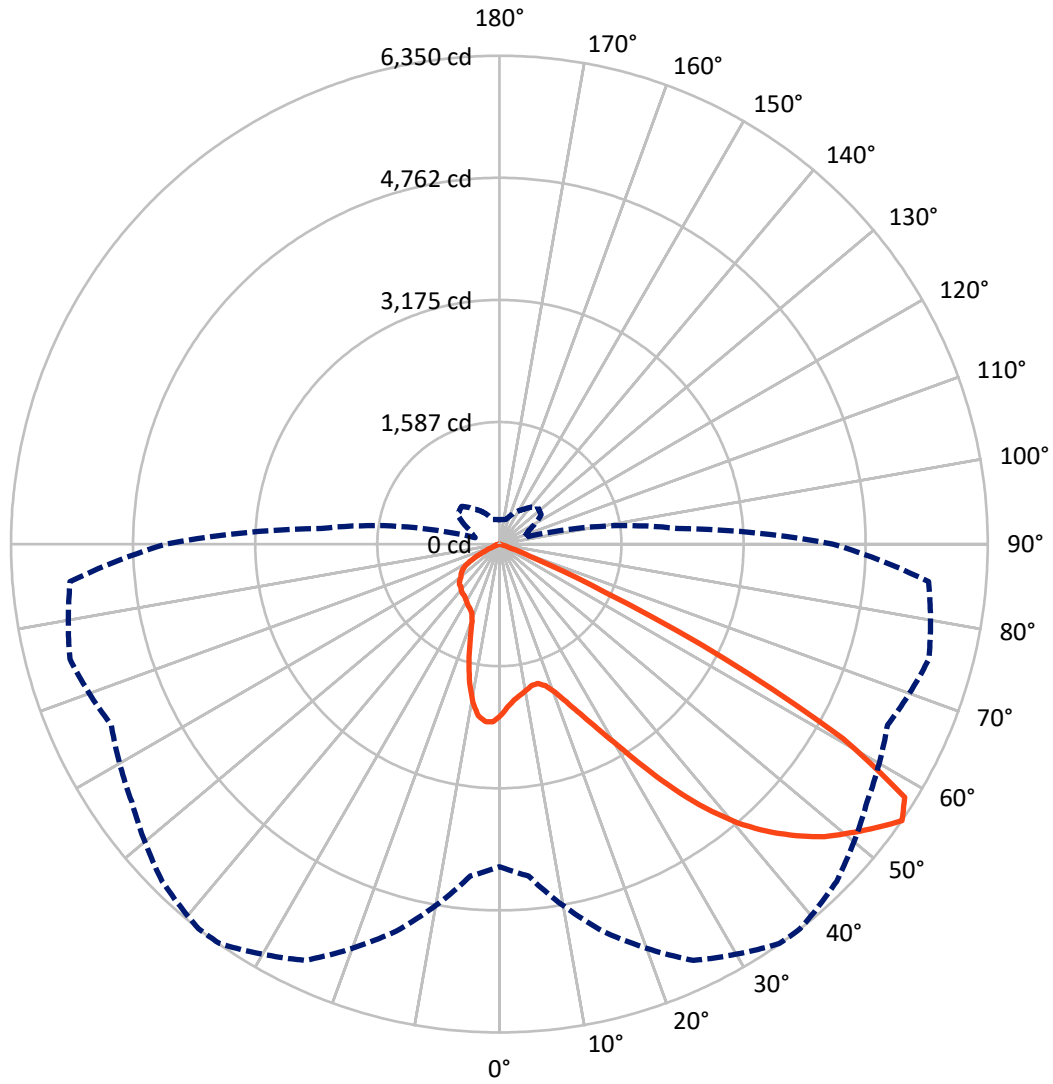
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.3 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	1809.2	0.0	1809.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7477.0	0.0	7477.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	9286.2	0.0	9286.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	2.2
10°-20°	554.3	6.0
20°-30°	951.3	10.2
30°-40°	1577.7	17.0
40°-50°	2319.3	25.0
50°-60°	2710.2	29.2
60°-70°	918.7	9.9
70°-80°	47.0	0.5
80°-90°	1.9	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°	9286.2	100.0
0°-180°	9286.2	100.0

Coefficient of Utilization

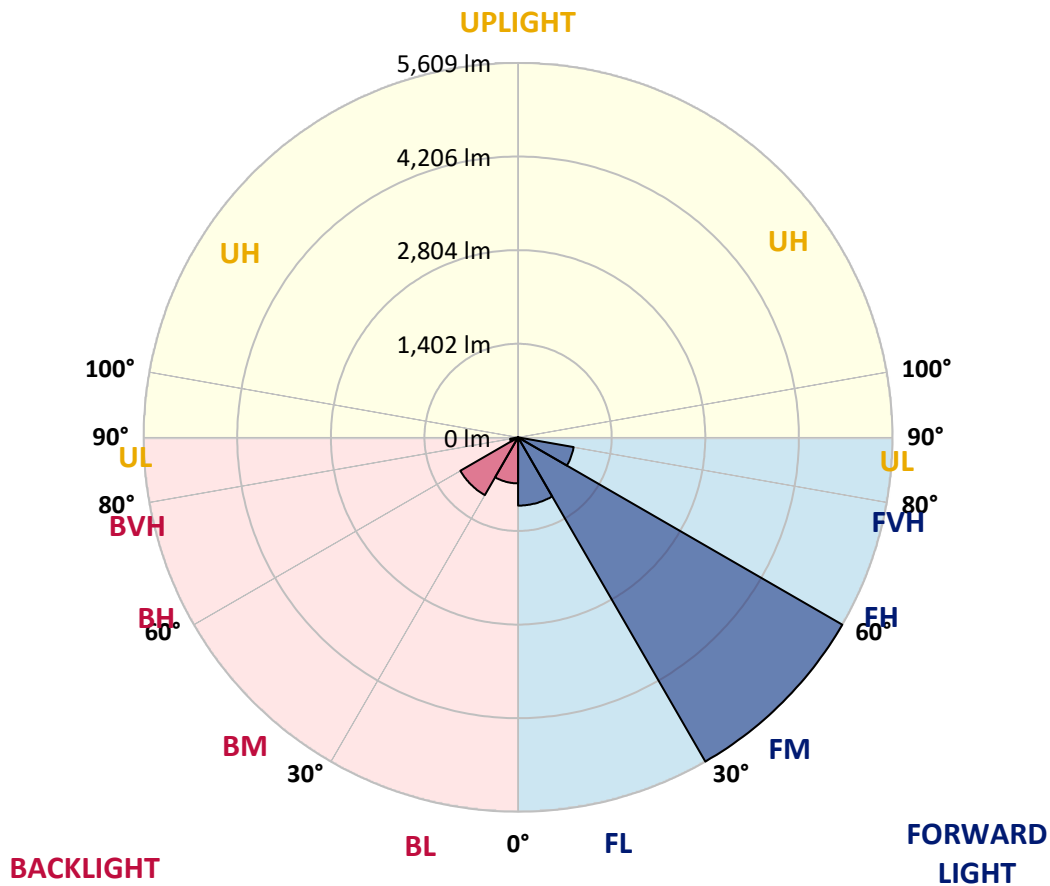


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1022.2	11.0			
FM (30°-60°)	5608.6	60.4			
FH (60°-80°)	845.2	9.1			G1/1800
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	689.3	7.4	B2/1000		
BM (30°-60°)	998.6	10.8	B1/1000		
BH (60°-80°)	120.4	1.3	B1/500		G1/500
BVH (80°-90°)	0.9	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°	2226.9	2226.9	2226.9	2226.9	2226.9	2226.9	2226.9	2226.9	2226.9	2226.9	2226.9
2.5°	2074.1	2069.8	2078.3	2095.3	2111.2	2116.5	2132.4	2154.7	2168.5	2201.4	2228.0
5°	1980.6	1978.5	1987.0	2001.9	2023.1	2030.5	2054.9	2092.1	2129.2	2186.6	2242.8
7.5°	1895.7	1894.7	1907.4	1940.3	1971.1	1980.6	2010.4	2056.0	2105.9	2194.0	2276.8
10°	1784.3	1785.3	1809.8	1856.5	1912.7	1931.8	1979.6	2045.4	2110.1	2223.7	2338.4
12.5°	1748.2	1750.3	1763.1	1799.1	1860.7	1885.1	1952.0	2051.8	2134.6	2266.2	2418.0
15°	1836.3	1836.3	1825.7	1829.9	1857.5	1879.8	1949.9	2073.0	2176.0	2317.1	2496.5
17.5°	2007.2	2000.8	1974.3	1938.2	1928.6	1936.1	1992.3	2118.6	2234.3	2376.6	2585.7
20°	2238.6	2240.7	2188.7	2113.3	2052.8	2051.8	2085.7	2199.3	2318.2	2447.7	2682.3
22.5°	2518.8	2510.3	2441.3	2338.4	2233.3	2224.8	2238.6	2322.4	2439.2	2560.2	2801.1
25°	2843.6	2839.4	2741.7	2603.7	2464.7	2444.5	2444.5	2527.3	2612.2	2720.5	2943.4
27.5°	3183.3	3183.3	3088.8	2929.6	2744.9	2708.8	2703.5	2801.1	2857.4	2878.6	3063.3
30°	3532.5	3528.2	3434.8	3271.4	3073.9	3036.8	3021.9	3094.1	3134.4	3070.7	3213.0
32.5°	3887.0	3894.4	3800.0	3648.2	3472.0	3447.6	3401.9	3401.9	3434.8	3345.7	3448.6
35°	4268.1	4265.9	4191.6	4088.7	3937.9	3910.3	3835.0	3717.2	3767.1	3727.8	3774.5
37.5°	4604.5	4620.4	4584.4	4507.9	4385.9	4358.3	4234.1	4020.7	4058.9	4120.5	4161.9
40°	4946.3	4959.0	4995.1	4970.7	4816.8	4765.9	4545.1	4194.8	4237.3	4448.5	4567.4
42.5°	5281.7	5288.1	5361.3	5401.7	5195.8	5106.6	4780.7	4301.0	4345.5	4705.4	4913.4
45°	5495.1	5508.9	5629.9	5753.0	5530.1	5408.0	4985.6	4436.8	4455.9	4883.7	5169.2
47.5°	5486.6	5518.4	5745.6	5969.5	5817.8	5686.1	5231.8	4654.4	4622.6	5051.4	5338.0
50°	5315.7	5353.9	5679.8	6035.3	6024.7	5902.7	5505.7	4969.7	4869.9	5200.0	5359.2
52.5°	4961.2	5071.6	5564.1	6043.8	6191.4	6129.8	5844.3	5394.2	5204.2	5413.3	5393.2
55°	4194.8	4330.7	5212.7	5971.7	6342.1	6349.5	6199.9	5836.9	5567.3	5780.6	5602.3
57.5°	3184.3	3292.6	4012.2	5315.7	6092.7	6214.7	6337.9	6070.4	5791.2	6031.1	5651.1
60°	1919.1	2044.3	2512.4	3900.8	4920.8	5128.9	5611.8	5559.8	5223.3	5326.3	4634.2
62.5°	778.0	843.8	1160.2	2149.4	3097.3	3291.5	3754.3	3832.9	3750.1	3645.0	2810.7
65°	284.5	311.0	464.9	888.4	1424.5	1495.6	1739.7	1878.7	1993.4	1697.2	1045.5
67.5°	176.2	193.2	302.5	456.4	518.0	481.9	490.4	584.9	558.3	345.0	186.8
70°	130.6	144.4	236.7	316.3	209.1	161.3	109.3	116.8	105.1	92.3	91.3
72.5°	90.2	103.0	177.3	186.8	80.7	57.3	40.3	56.3	63.7	62.6	64.7
75°	59.4	69.0	111.5	73.2	20.2	15.9	13.8	29.7	38.2	38.2	39.3
77.5°	35.0	40.3	39.3	14.9	4.2	4.2	3.2	5.3	8.5	9.6	11.7
80°	4.2	3.2	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2
82.5°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
85°	0.0	0.0	1.1	1.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
87.5°	0.0	0.0	1.1	1.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
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°	2226.9	2226.9	2226.9	2226.9	2226.9	2226.9	2226.9	2226.9	2226.9	2226.9	2226.9
2.5°	2248.1	2240.7	2271.5	2293.8	2311.8	2320.3	2308.6	2307.6	2307.6	2284.2	2277.9
5°	2274.7	2277.9	2321.4	2340.5	2343.7	2333.0	2306.5	2288.5	2277.9	2253.4	2239.6
7.5°	2325.6	2336.2	2377.6	2374.4	2345.8	2297.0	2226.9	2172.8	2137.7	2099.5	2076.2
10°	2398.9	2419.0	2444.5	2399.9	2308.6	2184.4	2040.1	1937.1	1875.6	1832.0	1805.5
12.5°	2488.0	2508.2	2499.7	2394.6	2204.6	1982.8	1797.0	1648.4	1577.3	1538.0	1510.4
15°	2578.2	2591.0	2535.8	2330.9	2021.0	1722.7	1515.7	1368.2	1281.2	1249.3	1226.0
17.5°	2670.6	2667.4	2542.1	2205.7	1775.8	1429.8	1226.0	1125.1	1100.7	1095.4	1093.3
20°	2767.2	2738.5	2516.7	2026.3	1480.7	1140.0	1024.3	1030.7	1075.2	1096.5	1100.7
22.5°	2877.6	2805.4	2453.0	1783.2	1179.3	950.0	961.7	1024.3	1084.8	1113.5	1117.7
25°	2995.4	2867.0	2346.8	1471.2	929.8	873.6	942.6	1014.7	1079.5	1114.5	1118.8
27.5°	3072.9	2881.8	2172.8	1157.0	798.2	843.8	917.1	986.1	1052.9	1091.2	1096.5
30°	3156.7	2875.4	1936.1	891.6	753.6	818.4	882.1	944.7	1006.2	1048.7	1052.9
32.5°	3279.9	2871.2	1647.4	723.9	735.6	798.2	844.9	896.9	939.4	963.8	960.6
35°	3441.2	2865.9	1310.9	652.8	725.0	782.3	819.4	843.8	797.1	782.3	785.5
37.5°	3648.2	2878.6	1027.5	623.1	721.8	778.0	809.9	739.8	667.6	640.0	635.8
40°	3877.4	2911.5	783.3	611.4	732.4	788.7	773.8	658.1	568.9	514.8	503.1
42.5°	4107.8	2947.6	619.9	607.1	750.4	818.4	714.3	598.7	464.9	434.1	429.9
45°	4278.7	2941.3	536.0	599.7	766.4	835.4	698.4	513.7	415.0	401.2	402.3
47.5°	4364.6	2871.2	490.4	582.7	772.7	818.4	659.2	478.7	381.1	395.9	408.7
50°	4319.0	2689.7	447.9	549.8	758.9	796.1	596.5	452.2	364.1	425.6	454.3
52.5°	4263.8	2466.8	401.2	498.9	726.0	765.3	572.1	444.7	353.5	410.8	432.0
55°	4337.0	2325.6	324.8	420.3	661.3	693.1	553.0	443.7	329.0	319.5	316.3
57.5°	4234.1	2044.3	232.5	302.5	507.4	548.8	539.2	436.3	291.9	290.8	295.1
60°	3272.4	1247.2	159.2	192.1	311.0	350.3	489.3	417.1	251.6	231.4	232.5
62.5°	1859.6	530.7	109.3	118.9	159.2	188.9	373.6	378.9	232.5	220.8	232.5
65°	647.5	190.0	84.9	79.6	88.1	100.8	214.4	293.0	211.2	191.1	193.2
67.5°	133.7	94.5	75.4	65.8	65.8	65.8	109.3	182.6	174.1	151.8	153.9
70°	84.9	80.7	65.8	56.3	54.1	49.9	62.6	100.8	119.9	110.4	111.5
72.5°	62.6	61.6	52.0	45.6	40.3	36.1	39.3	49.9	61.6	63.7	64.7
75°	38.2	39.3	34.0	28.7	25.5	22.3	23.4	23.4	23.4	21.2	23.4
77.5°	11.7	12.7	10.6	8.5	7.4	7.4	7.4	6.4	5.3	3.2	3.2
80°	3.2	3.2	3.2	3.2	3.2	2.1	2.1	1.1	1.1	0.0	0.0
82.5°	3.2	3.2	3.2	3.2	2.1	2.1	1.1	1.1	0.0	0.0	0.0
85°	3.2	3.2	3.2	3.2	2.1	2.1	1.1	1.1	0.0	0.0	0.0
87.5°	3.2	3.2	3.2	3.2	2.1	2.1	1.1	1.1	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)