

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: P636783

Luminaire Tested: GWS-SA4B-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8597.7 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

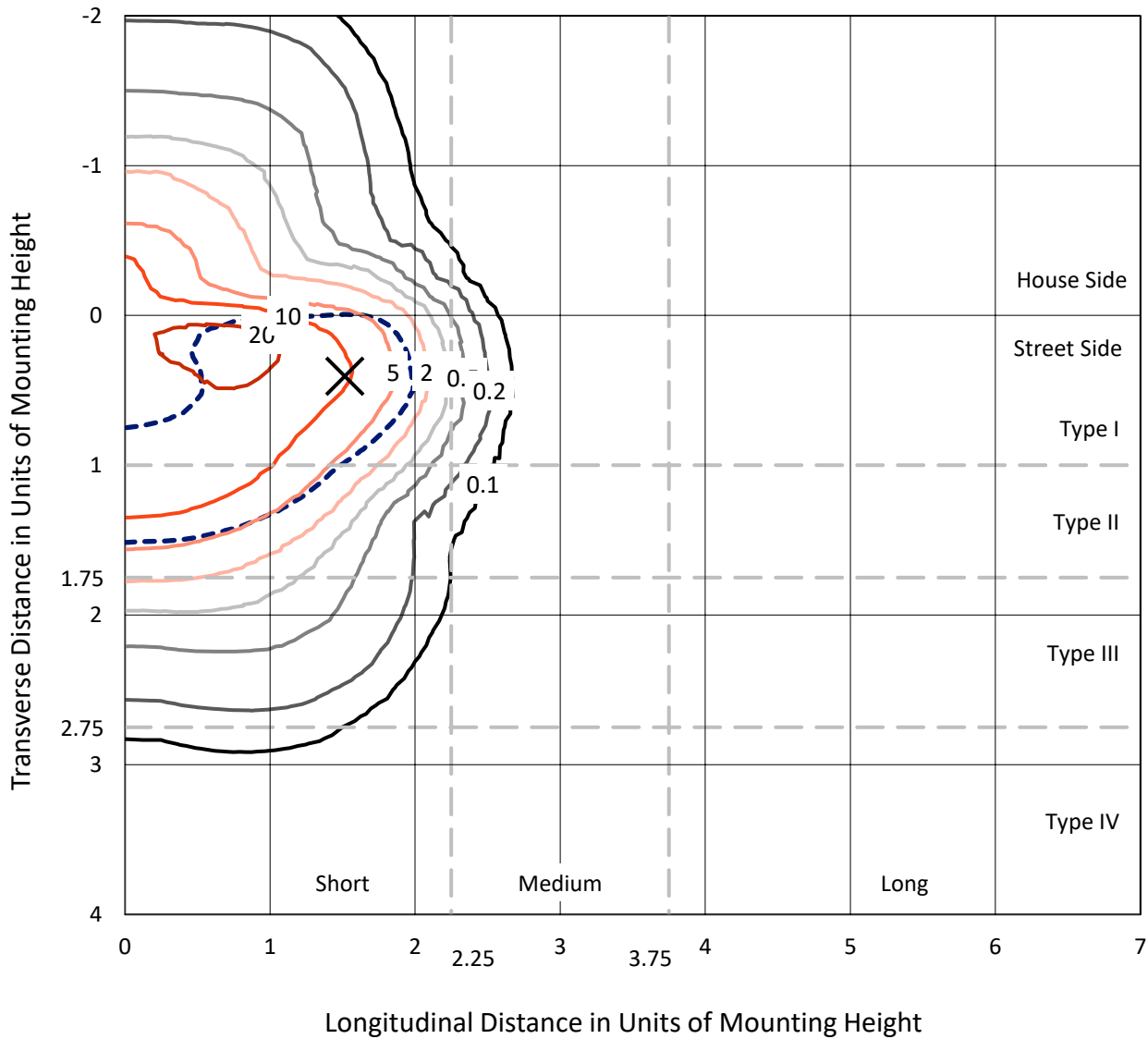
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

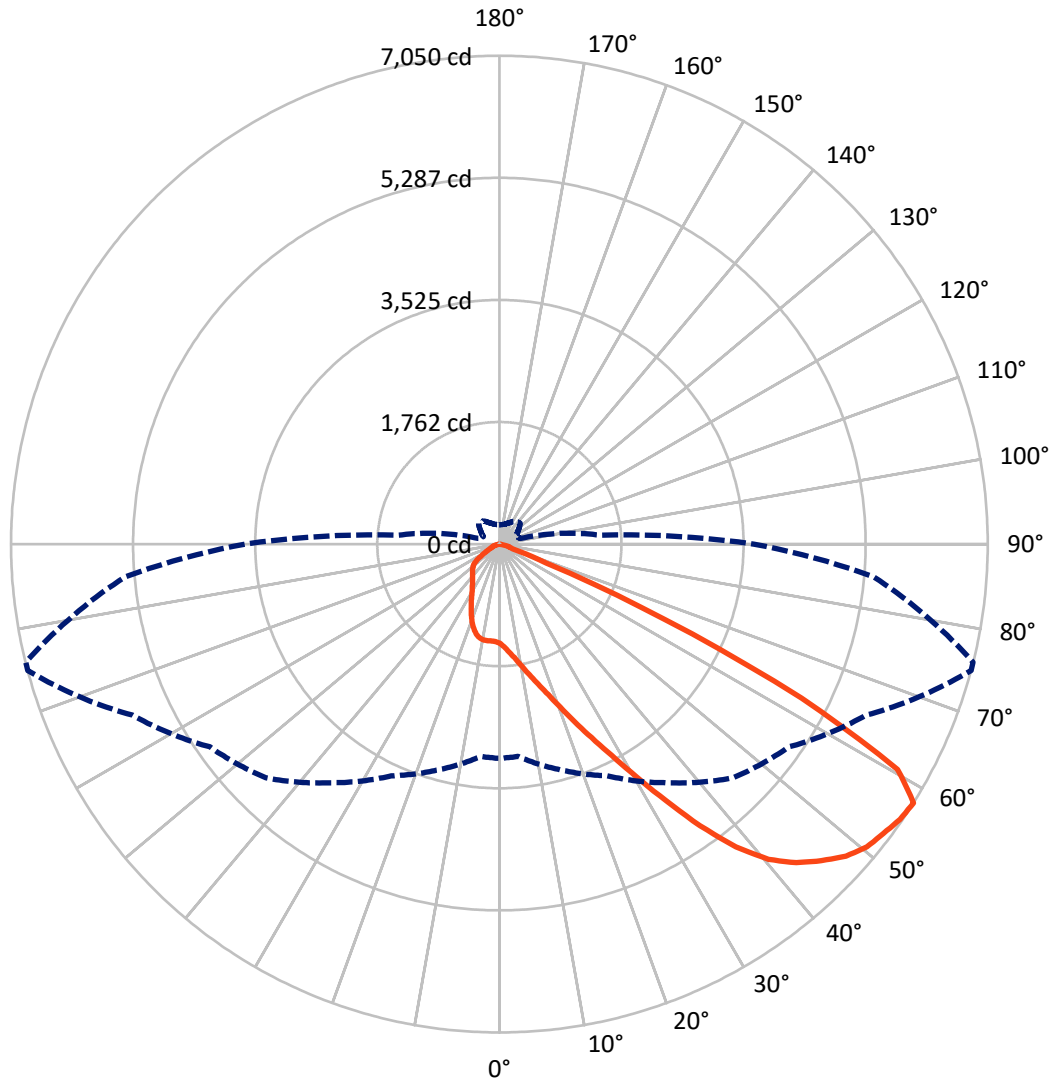
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1404.4	0.0	1404.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	7193.3	0.0	7193.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	8597.7	0.0	8597.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	1.7
10°-20°	474.0	5.5
20°-30°	868.0	10.1
30°-40°	1440.1	16.8
40°-50°	2199.4	25.6
50°-60°	2471.4	28.7
60°-70°	911.6	10.6
70°-80°	87.1	1.0
80°-90°	0.1	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°	8597.7	100.0
0°-180°	8597.7	100.0

Coefficient of Utilization



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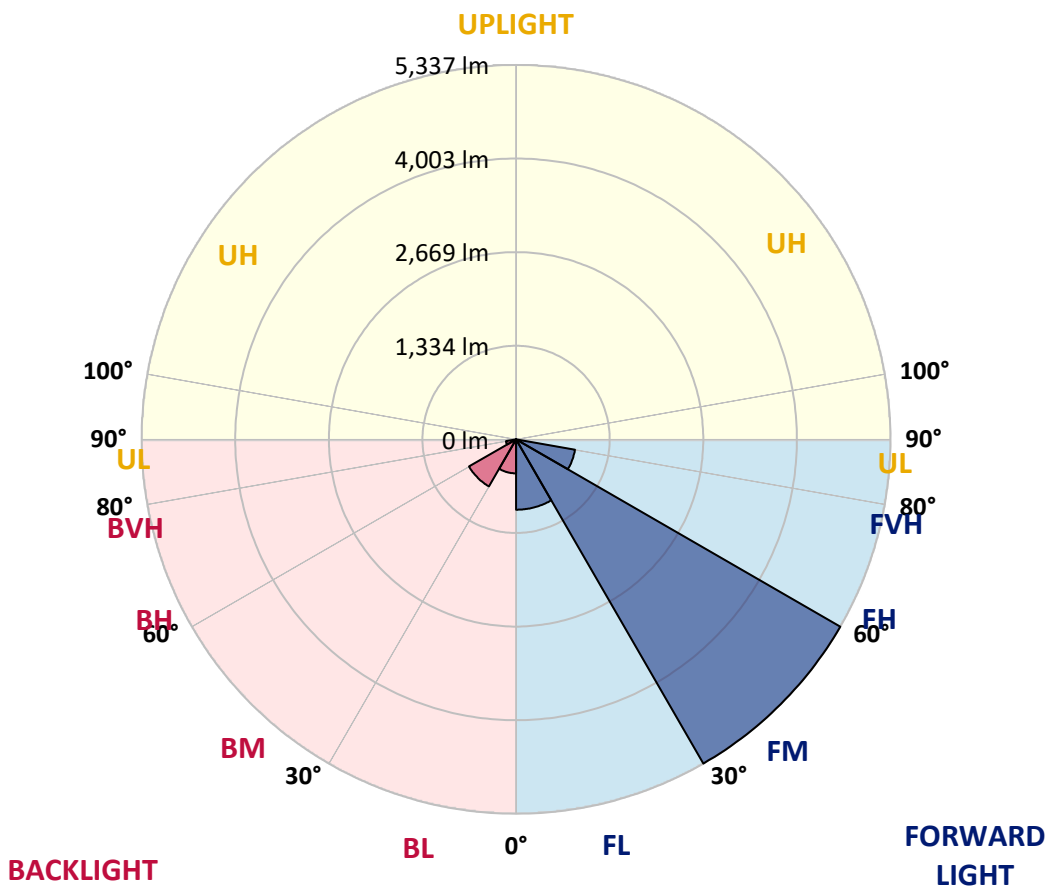
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.3	11.7			
FM (30°-60°)	5337.1	62.1			
FH (60°-80°)	852.9	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	484.6	5.6	B1/500		
BM (30°-60°)	773.9	9.0	B1/1000		
BH (60°-80°)	145.8	1.7	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: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0
2.5°	1602.1	1618.7	1613.5	1603.1	1596.9	1575.1	1561.6	1522.2	1494.2	1491.0	1465.1
5°	1804.4	1801.3	1797.1	1784.7	1774.3	1740.1	1699.6	1633.2	1574.1	1566.8	1511.8
7.5°	1915.4	1917.5	1919.6	1917.5	1910.2	1884.3	1839.7	1761.9	1671.6	1665.4	1578.2
10°	1961.1	1965.2	1975.6	1995.3	2013.0	2010.9	1984.9	1905.1	1794.0	1783.7	1666.4
12.5°	1982.9	1988.1	2004.7	2042.0	2089.7	2127.1	2131.3	2059.7	1937.2	1920.6	1771.2
15°	2013.0	2018.2	2038.9	2087.7	2157.2	2230.9	2278.6	2232.9	2096.0	2078.3	1886.4
17.5°	2026.5	2033.7	2063.8	2128.1	2218.4	2331.5	2439.4	2435.3	2283.8	2270.3	2020.2
20°	2052.4	2057.6	2084.6	2154.1	2263.0	2425.9	2607.5	2672.9	2513.1	2493.4	2182.1
22.5°	2134.4	2136.4	2148.9	2192.5	2294.2	2494.4	2778.7	2949.9	2783.9	2758.0	2363.7
25°	2268.2	2267.2	2272.4	2279.6	2354.3	2563.9	2943.7	3262.2	3094.2	3066.1	2569.1
27.5°	2438.4	2438.4	2450.8	2430.1	2460.2	2650.1	3106.6	3621.3	3455.2	3415.8	2794.3
30°	2638.6	2637.6	2666.7	2633.5	2642.8	2786.0	3282.0	4012.4	3891.0	3842.3	3053.7
32.5°	2910.5	2904.3	2937.5	2891.8	2860.7	2991.4	3495.7	4421.3	4413.0	4338.2	3379.5
35°	3253.9	3243.6	3253.9	3209.3	3153.3	3278.8	3775.9	4829.0	4991.9	4913.1	3767.6
37.5°	3595.3	3628.5	3639.9	3563.2	3517.5	3643.0	4113.1	5194.3	5545.0	5463.0	4171.2
40°	3997.9	3987.5	4027.0	3940.8	3911.8	4050.8	4443.0	5466.1	5982.9	5905.0	4530.2
42.5°	4294.7	4313.3	4362.1	4314.4	4291.6	4422.3	4720.1	5624.9	6286.9	6210.1	4786.5
45°	4650.6	4664.1	4682.7	4643.3	4619.4	4748.1	4920.3	5694.4	6518.3	6435.3	4958.7
47.5°	5035.5	5045.9	5045.9	4965.0	4888.2	4941.1	5054.2	5733.8	6731.0	6651.1	5086.4
50°	5311.5	5316.7	5362.4	5305.3	5138.2	5056.3	5115.4	5772.2	6872.1	6797.4	5127.9
52.5°	5066.6	5060.4	5210.9	5329.2	5373.8	5210.9	5221.3	5828.3	6940.6	6876.2	5161.1
55°	4266.7	4256.3	4467.9	4755.4	5148.6	5357.2	5348.9	5861.5	7016.3	6976.9	5281.4
57.5°	3093.1	3075.5	3370.2	3689.7	4205.4	4770.9	5103.0	5842.8	7049.5	7046.4	5421.5
60°	1859.4	1844.9	2122.9	2459.1	2857.6	3426.2	3977.2	5233.7	6605.4	6611.6	5057.3
62.5°	1144.5	1158.0	1409.1	1580.3	1728.7	1899.9	2218.4	3520.6	4893.4	4933.8	3553.8
65°	769.9	780.3	1012.7	1228.5	1228.5	1004.4	862.3	1683.0	2610.6	2542.1	1680.9
67.5°	516.7	528.1	711.8	963.9	1000.3	700.4	349.7	502.2	727.4	705.6	416.1
70°	304.0	316.5	474.2	661.0	728.4	487.7	233.5	212.7	206.5	200.3	161.9
72.5°	135.9	141.1	241.8	336.2	307.1	205.4	165.0	170.2	160.8	157.7	131.8
75°	41.5	43.6	62.3	72.6	73.7	73.7	99.6	133.9	126.6	127.6	101.7
77.5°	10.4	10.4	16.6	15.6	8.3	7.3	18.7	30.1	31.1	28.0	20.8
80°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0
2.5°	1453.7	1426.7	1409.1	1384.2	1366.5	1347.9	1331.3	1317.8	1310.5	1308.4	1309.5
5°	1486.9	1444.4	1402.8	1355.1	1321.9	1290.8	1265.9	1246.2	1236.8	1233.7	1233.7
7.5°	1537.7	1478.6	1404.9	1330.2	1274.2	1225.4	1196.4	1174.6	1166.3	1164.2	1158.0
10°	1604.1	1523.2	1401.8	1285.6	1206.7	1155.9	1135.1	1128.9	1132.0	1133.1	1132.0
12.5°	1684.0	1569.9	1382.1	1220.2	1135.1	1104.0	1106.1	1122.7	1141.4	1150.7	1152.8
15°	1769.1	1612.4	1337.5	1142.4	1073.9	1072.9	1103.0	1141.4	1177.7	1193.3	1197.4
17.5°	1864.6	1646.7	1269.0	1059.4	1021.0	1051.1	1105.1	1164.2	1213.0	1238.9	1244.1
20°	1969.4	1674.7	1181.8	981.6	974.3	1028.3	1103.0	1175.6	1235.8	1264.8	1270.0
22.5°	2078.3	1694.4	1081.2	910.0	931.8	1002.3	1083.3	1153.8	1210.9	1244.1	1248.2
25°	2202.8	1696.5	978.5	849.8	892.3	967.1	1035.5	1093.6	1141.4	1170.4	1173.5
27.5°	2311.8	1671.6	887.2	801.0	856.0	923.5	969.1	1001.3	1034.5	1051.1	1052.1
30°	2437.3	1628.0	801.0	761.6	818.7	869.5	892.3	899.6	902.7	905.8	901.7
32.5°	2586.8	1575.1	736.7	723.2	776.1	810.4	816.6	802.1	784.4	759.5	753.3
35°	2770.4	1527.4	683.8	685.9	729.4	750.2	745.0	713.9	679.6	649.5	644.4
37.5°	2969.6	1486.9	643.3	649.5	678.6	693.1	677.6	643.3	627.8	601.8	602.9
40°	3146.0	1453.7	607.0	613.2	626.7	640.2	615.3	592.5	621.5	619.5	621.5
42.5°	3271.6	1425.7	575.9	572.8	582.1	591.4	572.8	561.3	610.1	596.6	603.9
45°	3345.3	1399.7	549.9	531.3	545.8	562.4	549.9	535.4	552.0	489.8	484.6
47.5°	3395.1	1385.2	527.1	490.8	516.7	545.8	519.8	484.6	460.7	406.7	402.6
50°	3400.2	1377.9	500.1	449.3	482.5	513.6	483.5	434.8	400.5	376.7	373.5
52.5°	3427.2	1392.5	462.8	396.4	432.7	482.5	461.7	413.0	366.3	345.5	341.4
55°	3547.6	1453.7	400.5	323.7	376.7	458.6	444.1	368.4	323.7	311.3	308.2
57.5°	3672.1	1466.1	315.4	256.3	327.9	424.4	405.7	339.3	295.7	281.2	278.1
60°	3357.7	1207.8	236.6	211.7	289.5	392.2	375.6	321.7	270.8	253.2	250.1
62.5°	2206.0	652.7	187.8	179.5	243.8	332.0	342.4	290.5	241.8	223.1	222.0
65°	1016.9	303.0	144.2	142.2	190.9	264.6	294.7	254.2	204.4	187.8	187.8
67.5°	277.0	150.5	113.1	104.8	129.7	177.4	214.8	189.9	145.3	125.6	124.5
70°	138.0	121.4	101.7	90.3	93.4	110.0	126.6	105.8	73.7	60.2	59.1
72.5°	113.1	99.6	86.1	76.8	70.6	67.4	65.4	52.9	34.2	25.9	24.9
75°	84.0	71.6	61.2	49.8	42.5	39.4	35.3	25.9	14.5	8.3	7.3
77.5°	18.7	17.6	16.6	12.5	11.4	9.3	7.3	5.2	2.1	0.0	0.0
80°	1.0	1.0	1.0	1.0	1.0	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)