

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: P632878

Luminaire Tested: GWS-SA2D-750-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632878
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-SA2D-750-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 7094.5 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

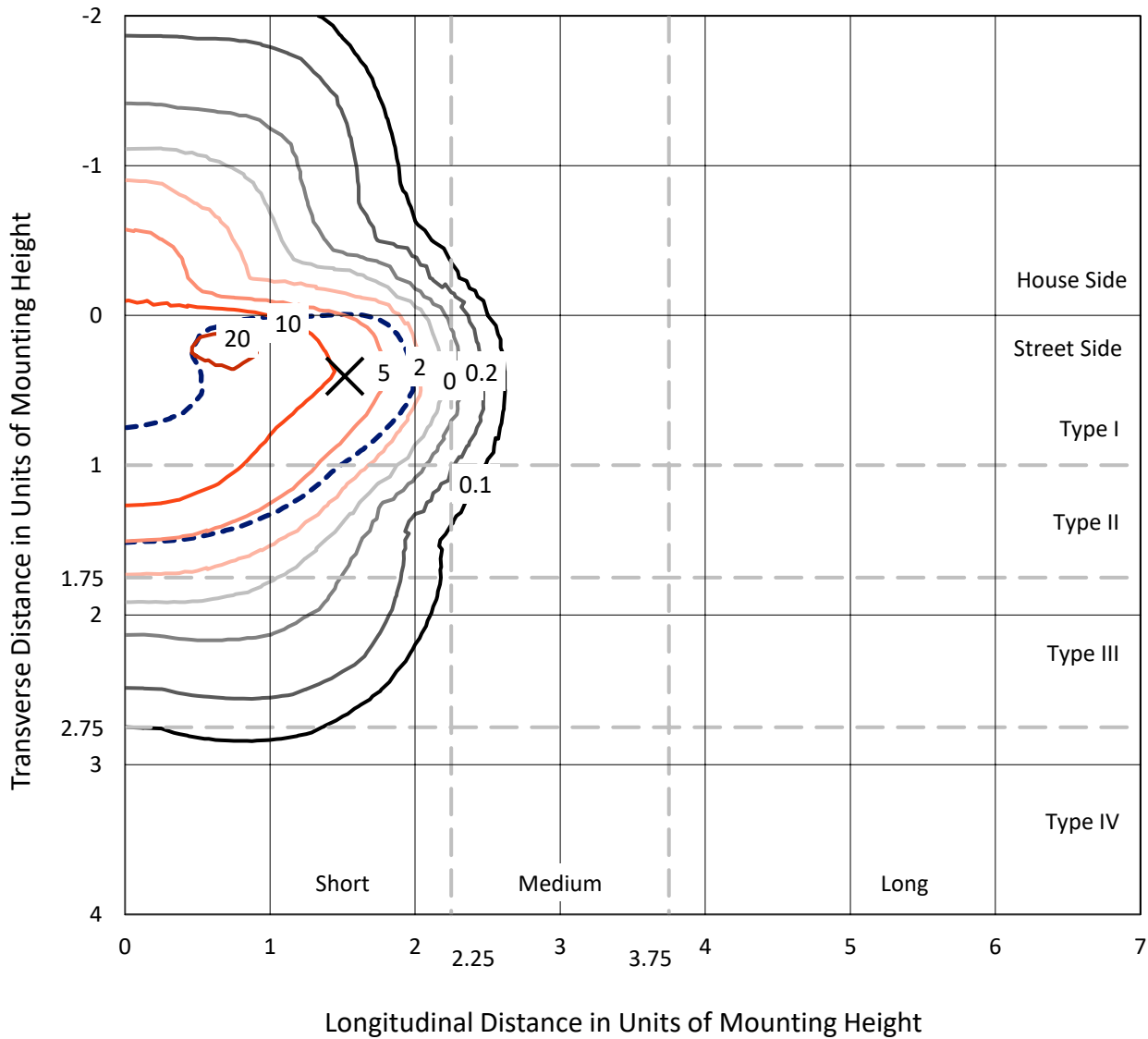
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

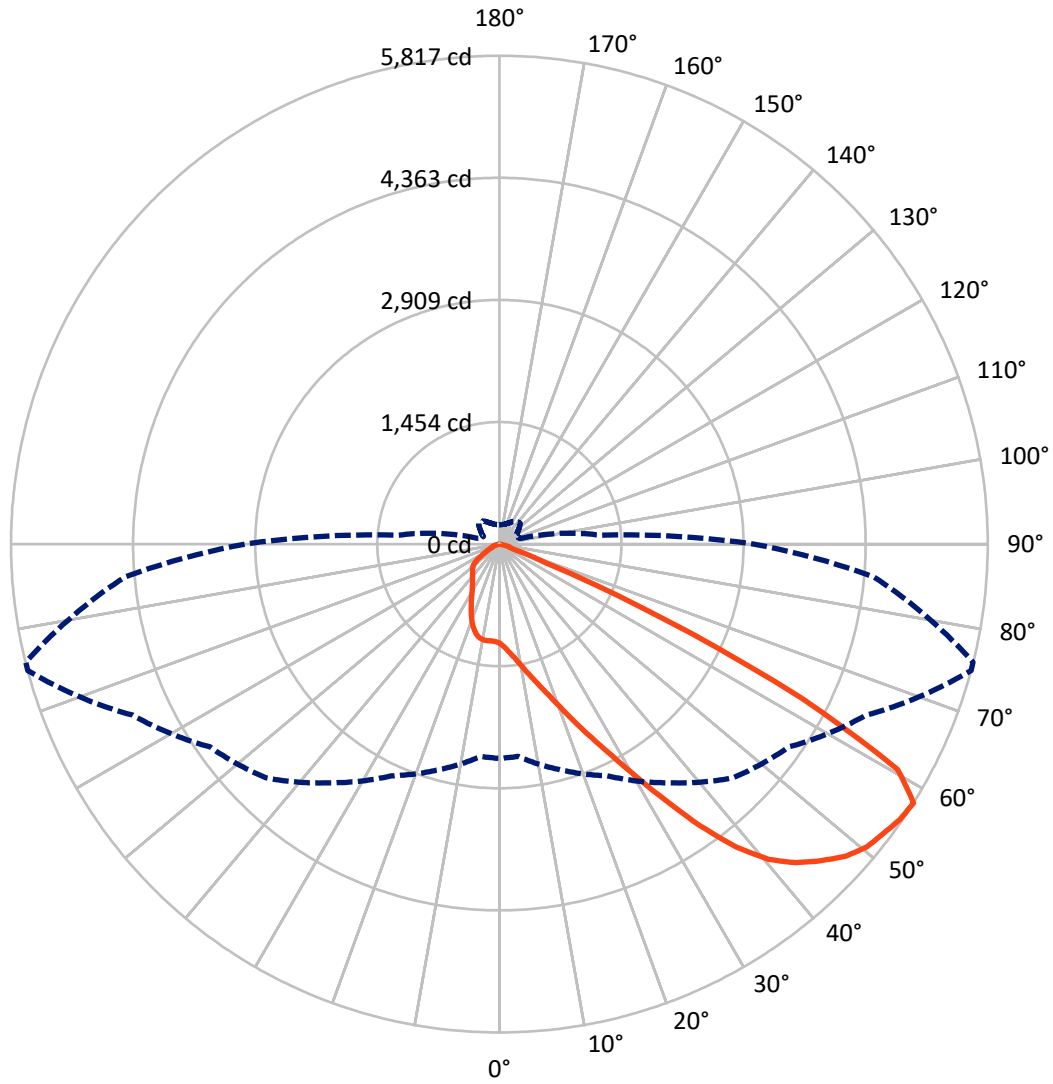
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.1 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	1158.9	0.0	1158.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	5935.6	0.0	5935.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	7094.5	0.0	7094.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.7
10°-20°	391.1	5.5
20°-30°	716.3	10.1
30°-40°	1188.3	16.8
40°-50°	1814.9	25.6
50°-60°	2039.3	28.7
60°-70°	752.2	10.6
70°-80°	71.9	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°	7094.5	100.0
0°-180°	7094.5	100.0

Coefficient of Utilization



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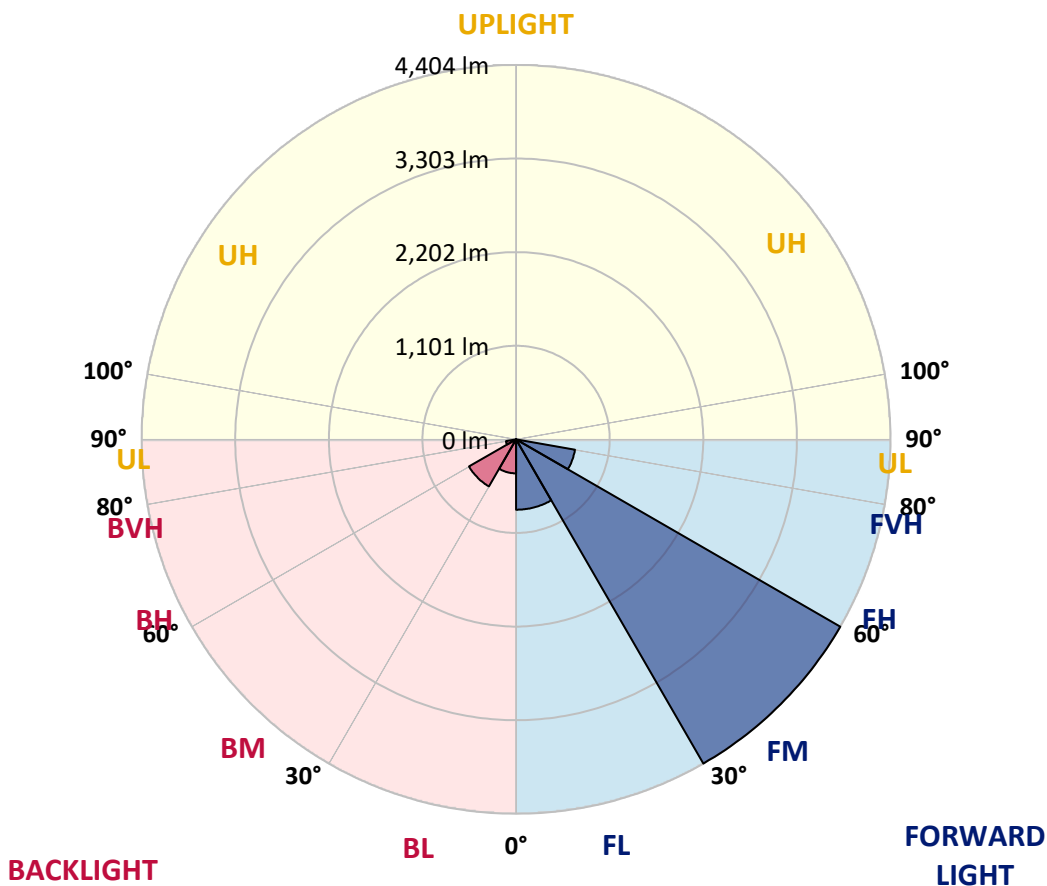
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	827.9	11.7			
FM (30°-60°)	4403.9	62.1			
FH (60°-80°)	703.7	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	399.9	5.6	B1/500		
BM (30°-60°)	638.6	9.0	B1/1000		
BH (60°-80°)	120.3	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°	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3
2.5°	1322.0	1335.7	1331.4	1322.8	1317.7	1299.7	1288.6	1256.0	1232.9	1230.4	1208.9
5°	1488.9	1486.4	1482.9	1472.7	1464.1	1435.8	1402.5	1347.7	1298.9	1292.9	1247.5
7.5°	1580.5	1582.3	1584.0	1582.3	1576.3	1554.9	1518.0	1453.8	1379.3	1374.2	1302.3
10°	1618.2	1621.6	1630.2	1646.5	1661.0	1659.3	1637.9	1572.0	1480.4	1471.8	1375.1
12.5°	1636.2	1640.5	1654.2	1685.0	1724.4	1755.2	1758.6	1699.6	1598.5	1584.8	1461.5
15°	1661.0	1665.3	1682.4	1722.7	1780.0	1840.8	1880.2	1842.5	1729.5	1715.0	1556.6
17.5°	1672.2	1678.1	1703.0	1756.1	1830.5	1923.9	2012.9	2009.5	1884.5	1873.4	1667.0
20°	1693.6	1697.8	1720.1	1777.5	1867.4	2001.8	2151.6	2205.6	2073.7	2057.4	1800.6
22.5°	1761.2	1762.9	1773.2	1809.1	1893.1	2058.3	2292.9	2434.2	2297.2	2275.8	1950.4
25°	1871.6	1870.8	1875.1	1881.1	1942.7	2115.7	2429.0	2691.9	2553.2	2530.1	2119.9
27.5°	2012.1	2012.1	2022.3	2005.2	2030.0	2186.7	2563.5	2988.1	2851.1	2818.6	2305.7
30°	2177.3	2176.5	2200.4	2173.0	2180.7	2298.9	2708.2	3310.9	3210.7	3170.5	2519.8
32.5°	2401.6	2396.5	2423.9	2386.2	2360.5	2468.4	2884.5	3648.3	3641.4	3579.8	2788.6
35°	2685.0	2676.5	2685.0	2648.2	2602.0	2705.6	3115.7	3984.7	4119.2	4054.1	3108.9
37.5°	2966.7	2994.1	3003.5	2940.2	2902.5	3006.1	3394.0	4286.1	4575.5	4507.9	3441.9
40°	3298.9	3290.4	3322.9	3251.8	3227.9	3342.6	3666.2	4510.4	4936.8	4872.6	3738.2
42.5°	3543.8	3559.2	3599.5	3560.1	3541.2	3649.1	3894.8	4641.4	5187.7	5124.3	3949.6
45°	3837.5	3848.6	3864.0	3831.5	3811.8	3918.0	4060.1	4698.8	5378.6	5310.1	4091.8
47.5°	4155.1	4163.7	4163.7	4096.9	4033.5	4077.2	4170.5	4731.3	5554.1	5488.2	4197.1
50°	4382.9	4387.2	4424.8	4377.7	4239.9	4172.2	4221.0	4763.0	5670.6	5608.9	4231.3
52.5°	4180.8	4175.7	4299.8	4397.4	4434.2	4299.8	4308.4	4809.3	5727.1	5674.0	4258.7
55°	3520.7	3512.1	3686.8	3923.9	4248.4	4420.5	4413.7	4836.7	5789.6	5757.1	4358.0
57.5°	2552.3	2537.8	2780.9	3044.6	3470.2	3936.8	4210.8	4821.2	5817.0	5814.4	4473.6
60°	1534.3	1522.3	1751.8	2029.2	2358.0	2827.2	3281.8	4318.7	5450.5	5455.7	4173.1
62.5°	944.4	955.5	1162.7	1304.0	1426.4	1567.7	1830.5	2905.1	4037.8	4071.2	2932.5
65°	635.3	643.9	835.6	1013.7	1013.7	828.8	711.5	1388.8	2154.2	2097.7	1387.0
67.5°	426.4	435.8	587.4	795.4	825.4	577.9	288.5	414.4	600.2	582.2	343.3
70°	250.9	261.1	391.3	545.4	601.1	402.4	192.6	175.5	170.4	165.2	133.6
72.5°	112.2	116.4	199.5	277.4	253.4	169.5	136.1	140.4	132.7	130.1	108.7
75°	34.2	36.0	51.4	59.9	60.8	60.8	82.2	110.4	104.5	105.3	83.9
77.5°	8.6	8.6	13.7	12.8	6.8	6.0	15.4	24.8	25.7	23.1	17.1
80°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
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°	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3
2.5°	1199.5	1177.3	1162.7	1142.2	1127.6	1112.2	1098.5	1087.4	1081.4	1079.7	1080.5
5°	1226.9	1191.8	1157.6	1118.2	1090.8	1065.1	1044.6	1028.3	1020.6	1018.0	1018.0
7.5°	1268.9	1220.1	1159.3	1097.6	1051.4	1011.2	987.2	969.2	962.4	960.7	955.5
10°	1323.7	1256.9	1156.7	1060.8	995.8	953.8	936.7	931.5	934.1	935.0	934.1
12.5°	1389.6	1295.4	1140.5	1006.9	936.7	911.0	912.7	926.4	941.8	949.5	951.2
15°	1459.8	1330.5	1103.6	942.7	886.2	885.3	910.1	941.8	971.8	984.6	988.1
17.5°	1538.6	1358.8	1047.1	874.2	842.5	867.3	911.8	960.7	1000.9	1022.3	1026.6
20°	1625.1	1381.9	975.2	810.0	804.0	848.5	910.1	970.1	1019.7	1043.7	1048.0
22.5°	1715.0	1398.2	892.2	750.9	768.9	827.1	893.9	952.1	999.2	1026.6	1030.0
25°	1817.7	1399.9	807.4	701.2	736.3	798.0	854.5	902.4	941.8	965.8	968.4
27.5°	1907.6	1379.3	732.0	661.0	706.4	762.0	799.7	826.2	853.6	867.3	868.2
30°	2011.2	1343.4	661.0	628.4	675.5	717.5	736.3	742.3	744.9	747.5	744.0
32.5°	2134.5	1299.7	607.9	596.8	640.4	668.7	673.8	661.8	647.3	626.7	621.6
35°	2286.0	1260.3	564.2	565.9	601.9	619.0	614.7	589.1	560.8	536.0	531.7
37.5°	2450.4	1226.9	530.8	536.0	560.0	571.9	559.1	530.8	518.0	496.6	497.5
40°	2596.0	1199.5	500.9	506.0	517.1	528.3	507.7	488.9	512.9	511.1	512.9
42.5°	2699.6	1176.4	475.2	472.6	480.3	488.0	472.6	463.2	503.4	492.3	498.3
45°	2760.4	1155.0	453.8	438.4	450.4	464.1	453.8	441.8	455.5	404.1	399.8
47.5°	2801.5	1143.0	434.9	405.0	426.4	450.4	429.0	399.8	380.2	335.6	332.2
50°	2805.8	1137.0	412.7	370.7	398.1	423.8	399.0	358.7	330.5	310.8	308.2
52.5°	2828.0	1149.0	381.9	327.1	357.0	398.1	381.0	340.8	302.2	285.1	281.7
55°	2927.3	1199.5	330.5	267.1	310.8	378.4	366.5	303.9	267.1	256.9	254.3
57.5°	3030.1	1209.8	260.3	211.5	270.6	350.2	334.8	280.0	244.0	232.0	229.5
60°	2770.7	996.6	195.2	174.7	238.9	323.6	309.9	265.4	223.5	208.9	206.3
62.5°	1820.3	538.5	155.0	148.1	201.2	274.0	282.5	239.7	199.5	184.1	183.2
65°	839.1	250.0	119.0	117.3	157.5	218.3	243.2	209.8	168.7	155.0	155.0
67.5°	228.6	124.1	93.3	86.5	107.0	146.4	177.2	156.7	119.9	103.6	102.7
70°	113.9	100.2	83.9	74.5	77.1	90.8	104.5	87.3	60.8	49.7	48.8
72.5°	93.3	82.2	71.1	63.4	58.2	55.7	53.9	43.7	28.3	21.4	20.5
75°	69.4	59.1	50.5	41.1	35.1	32.5	29.1	21.4	12.0	6.8	6.0
77.5°	15.4	14.6	13.7	10.3	9.4	7.7	6.0	4.3	1.7	0.0	0.0
80°	0.9	0.9	0.9	0.9	0.9	0.9	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)