

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: P637557

Luminaire Tested: GWS-SA4D-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12092 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

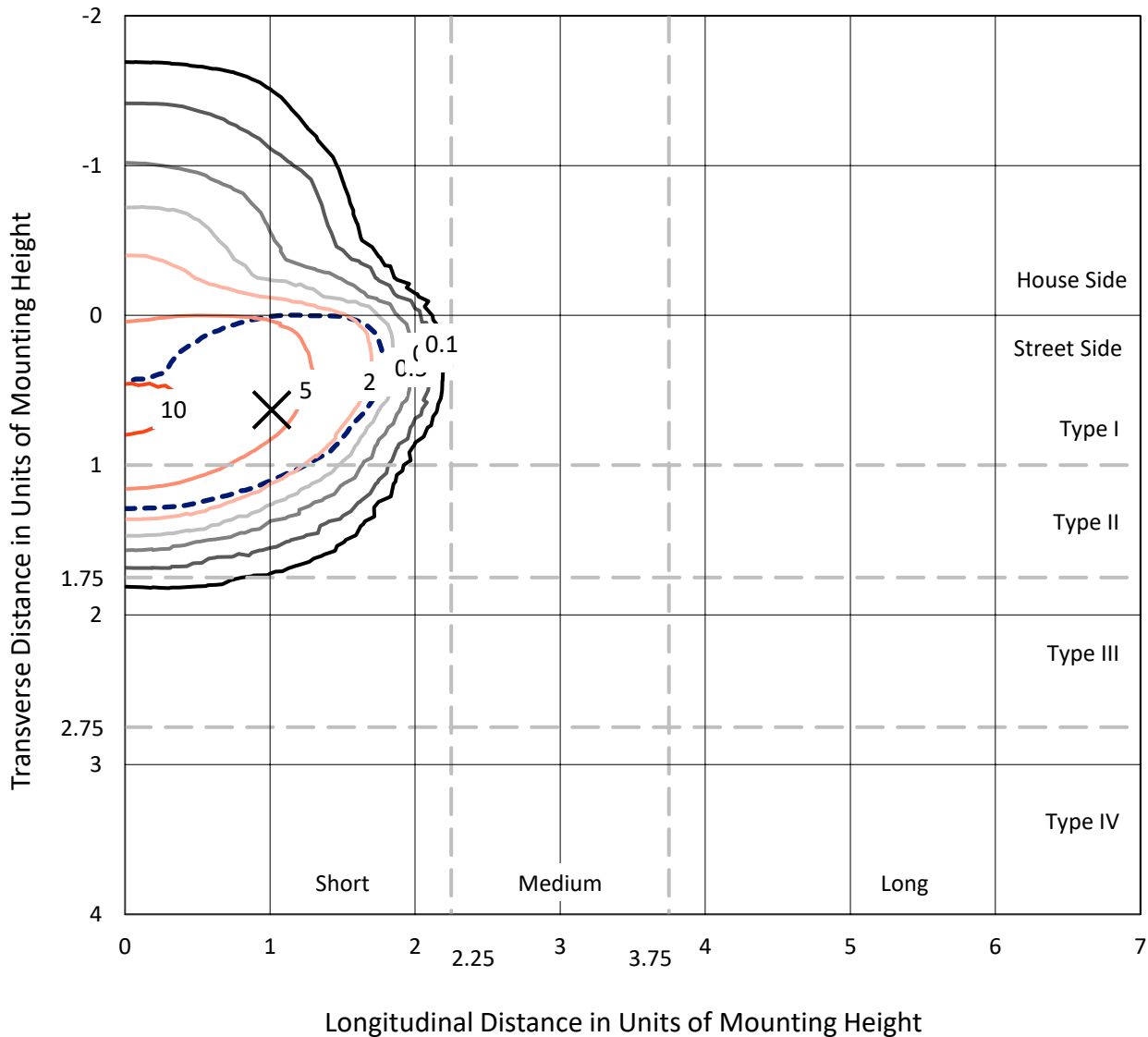
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637557
 CATALOG NUMBER: GWS-SA4D-722-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

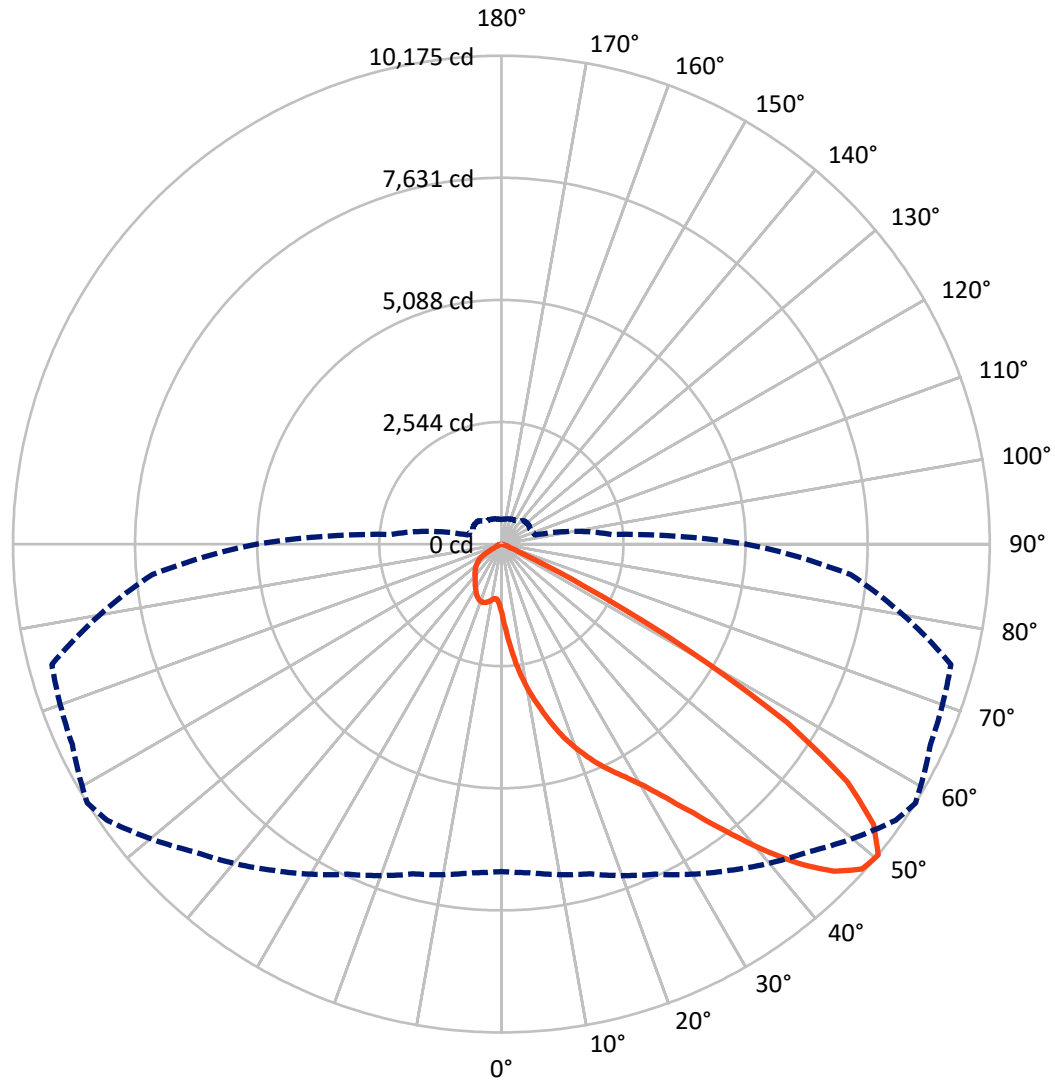
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

REPORT NUMBER: P637557
CATALOG NUMBER: GWS-SA4D-722-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P637557

CATALOG NUMBER: GWS-SA4D-722-U-T2R-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1693.7	0.0	1693.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10398.4	0.0	10398.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	12092.0	0.0	12092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	1.5
10°-20°	708.4	5.9
20°-30°	1433.4	11.9
30°-40°	2535.8	21.0
40°-50°	3696.7	30.6
50°-60°	2963.0	24.5
60°-70°	533.8	4.4
70°-80°	42.1	0.3
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°	12092.0	100.0
0°-180°	12092.0	100.0

Coefficient of Utilization



REPORT NUMBER: P637557

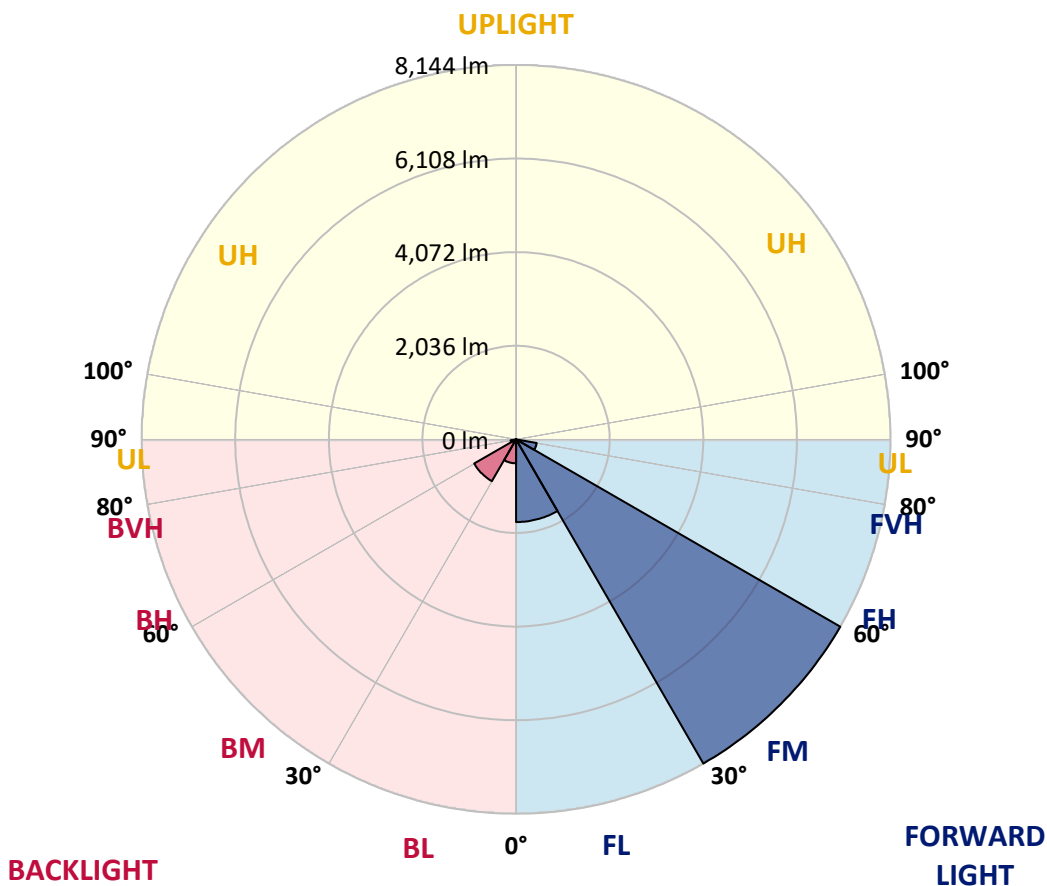
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1799.3	14.9			
FM (30°-60°)	8143.6	67.3			
FH (60°-80°)	455.5	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	521.4	4.3	B2/1000		
BM (30°-60°)	1051.8	8.7	B2/2500		
BH (60°-80°)	120.4	1.0	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





REPORT NUMBER: P637557

CATALOG NUMBER: GWS-SA4D-722-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4
2.5°	2137.5	2103.8	2084.4	2068.9	2000.4	1891.8	1820.7	1783.2	1721.1	1616.3	1525.8
5°	2789.2	2764.6	2719.3	2688.3	2600.4	2446.5	2287.5	2224.1	2083.1	1846.5	1634.5
7.5°	3221.1	3203.0	3186.1	3144.8	3062.0	2922.4	2746.5	2680.6	2463.3	2127.1	1779.3
10°	3553.4	3539.2	3519.8	3518.5	3453.8	3328.4	3156.4	3087.9	2852.5	2432.3	1950.0
12.5°	3845.6	3834.0	3830.1	3866.3	3824.9	3731.8	3545.6	3460.3	3210.7	2743.9	2138.8
15°	4046.0	4043.5	4060.3	4131.4	4154.7	4112.0	3955.5	3863.7	3576.7	3056.8	2346.9
17.5°	4137.9	4145.6	4177.9	4300.8	4404.2	4440.4	4320.2	4242.6	3940.0	3373.6	2569.3
20°	4294.3	4291.7	4311.1	4427.5	4554.2	4683.5	4647.3	4581.4	4307.2	3708.5	2816.3
22.5°	4735.3	4697.8	4656.4	4674.5	4719.7	4871.0	4938.3	4904.6	4686.1	4052.5	3071.1
25°	5412.8	5374.0	5240.8	5111.5	5026.2	5094.7	5186.5	5203.3	5062.4	4405.5	3337.4
27.5°	6131.8	6096.9	5946.9	5752.9	5508.5	5389.6	5458.1	5491.7	5432.2	4825.8	3620.6
30°	6805.5	6758.9	6594.7	6354.2	6071.0	5888.7	5811.1	5834.4	5869.3	5323.6	3952.9
32.5°	7389.9	7355.0	7158.5	6905.0	6632.2	6442.1	6261.1	6299.9	6385.2	5932.6	4378.4
35°	7885.2	7867.1	7658.9	7406.8	7118.4	7021.4	6866.2	6874.0	6959.3	6668.4	4896.9
37.5°	8315.8	8284.8	8096.0	7861.9	7633.0	7617.5	7574.9	7578.7	7622.7	7525.7	5493.0
40°	8587.3	8558.9	8424.4	8279.6	8116.7	8119.2	8340.4	8357.2	8306.7	8367.5	6122.7
42.5°	8689.5	8668.8	8596.4	8597.7	8580.9	8657.2	9072.2	9103.3	8922.2	9028.3	6660.6
45°	8512.3	8503.3	8508.5	8694.7	8896.4	9131.7	9670.9	9725.2	9469.2	9466.6	7080.9
47.5°	7940.8	7922.7	8074.0	8390.8	8857.6	9315.3	10033.0	10117.0	9852.0	9717.5	7344.7
50°	6821.0	6872.7	7111.9	7587.8	8297.7	9063.2	10029.1	10175.2	9866.2	9695.5	7300.7
52.5°	4940.9	4930.5	5454.2	6108.5	6972.3	8256.3	9496.4	9709.7	9520.9	9479.6	7202.4
55°	2688.3	2782.7	3135.7	4002.1	5080.5	6729.2	8279.6	8745.1	8963.6	9400.7	7379.6
57.5°	987.9	1029.3	1250.4	1863.3	2689.6	4184.4	6324.4	7026.6	7701.6	9180.9	7349.9
60°	398.3	406.0	494.0	685.3	1130.2	2129.7	3793.9	4417.2	5053.4	7027.9	5640.4
62.5°	289.6	300.0	334.9	400.9	571.5	931.0	1635.7	1902.1	2079.3	3481.0	2778.8
65°	234.0	241.8	270.3	300.0	377.6	500.4	527.6	508.2	505.6	900.0	637.5
67.5°	194.0	201.7	222.4	243.1	271.5	249.6	181.0	190.1	155.2	153.9	125.4
70°	142.2	151.3	172.0	194.0	162.9	67.2	104.7	155.2	117.7	98.3	95.7
72.5°	107.3	113.8	133.2	126.7	47.8	25.9	69.8	112.5	90.5	72.4	71.1
75°	80.2	84.1	67.2	20.7	5.2	6.5	25.9	46.6	50.4	41.4	41.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.9	5.2	6.5	7.8
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4	1444.4
2.5°	1474.1	1419.8	1342.2	1277.6	1228.4	1180.6	1144.4	1108.2	1106.9	1088.8	1084.9
5°	1536.2	1437.9	1295.7	1193.5	1131.4	1093.9	1068.1	1055.2	1048.7	1042.2	1039.6
7.5°	1625.4	1484.5	1287.9	1179.3	1127.6	1103.0	1084.9	1077.1	1073.3	1068.1	1066.8
10°	1735.3	1551.7	1316.4	1206.4	1161.2	1137.9	1118.5	1106.9	1100.4	1091.4	1088.8
12.5°	1867.2	1634.5	1361.6	1251.7	1203.9	1172.8	1147.0	1130.2	1121.1	1109.5	1106.9
15°	2009.4	1723.7	1412.0	1293.1	1236.2	1196.1	1163.8	1137.9	1121.1	1106.9	1103.0
17.5°	2156.9	1814.2	1457.3	1321.5	1251.7	1203.9	1157.3	1122.4	1101.7	1083.6	1078.4
20°	2322.4	1907.3	1487.0	1326.7	1246.5	1183.2	1128.9	1084.9	1064.2	1039.6	1034.5
22.5°	2495.6	1993.9	1500.0	1315.1	1218.1	1144.4	1086.2	1040.9	1011.2	985.3	977.6
25°	2663.7	2071.5	1493.5	1282.7	1175.4	1090.1	1030.6	984.0	951.7	925.8	919.4
27.5°	2842.2	2136.2	1470.2	1234.9	1117.2	1030.6	973.7	933.6	903.9	875.4	868.9
30°	3042.6	2195.6	1432.7	1176.7	1048.7	969.8	925.8	898.7	866.4	836.6	827.6
32.5°	3284.4	2248.7	1378.4	1106.9	987.9	916.8	892.2	871.5	834.0	803.0	796.5
35°	3561.1	2292.6	1309.9	1034.5	928.4	883.2	878.0	850.8	801.7	765.5	757.7
37.5°	3881.8	2335.3	1228.4	963.3	884.5	867.7	868.9	822.4	762.9	719.0	713.8
40°	4227.1	2378.0	1137.9	901.3	844.4	858.6	847.0	781.0	684.0	641.4	636.2
42.5°	4586.5	2424.5	1046.1	843.1	810.8	823.7	806.9	698.3	628.4	606.5	603.9
45°	4911.1	2480.1	946.5	784.9	777.1	773.3	744.8	632.3	602.6	587.1	585.8
47.5°	5145.2	2471.1	840.5	729.3	740.9	728.0	641.4	601.3	576.7	556.0	550.9
50°	5102.5	2313.3	730.6	667.2	694.4	682.7	576.7	565.1	543.1	521.1	513.4
52.5°	4993.9	2098.7	634.9	601.3	644.0	616.8	532.7	521.1	501.7	473.3	464.2
55°	5052.1	1896.9	559.9	548.3	592.2	510.8	483.6	465.5	444.8	413.8	409.9
57.5°	4864.6	1547.8	450.0	457.7	523.7	435.8	424.1	395.7	360.8	340.1	337.5
60°	3367.2	831.4	281.9	290.9	378.9	365.9	380.2	354.3	311.6	292.2	288.4
62.5°	1546.5	333.6	153.9	147.4	199.1	248.3	325.9	323.3	270.3	239.2	236.6
65°	375.0	152.6	109.9	103.4	112.5	148.7	212.1	254.7	218.5	182.3	178.4
67.5°	121.5	124.1	100.9	94.4	99.6	111.2	126.7	140.9	139.7	128.0	125.4
70°	97.0	112.5	93.1	85.3	85.3	89.2	85.3	68.5	59.5	64.7	67.2
72.5°	72.4	85.3	73.7	65.9	63.4	62.1	53.0	38.8	27.2	24.6	23.3
75°	42.7	47.8	45.3	38.8	36.2	32.3	25.9	16.8	9.1	6.5	3.9
77.5°	7.8	9.1	10.3	7.8	6.5	5.2	3.9	1.3	0.0	0.0	0.0
80°	0.0	1.3	1.3	1.3	0.0	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)