

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: P632768

Luminaire Tested: GWS-SA2D-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632768
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6840.5 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

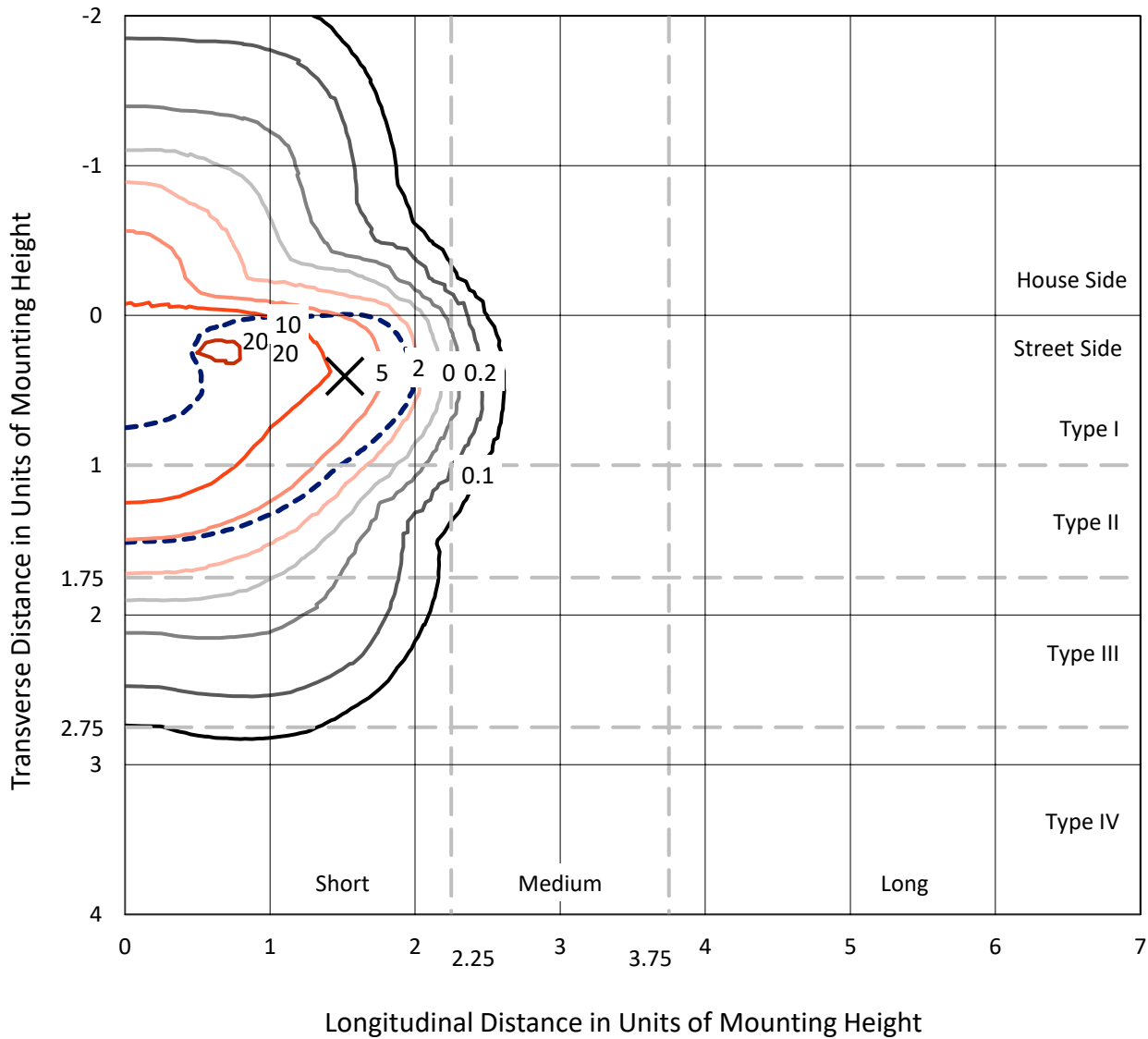
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA2D-735-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

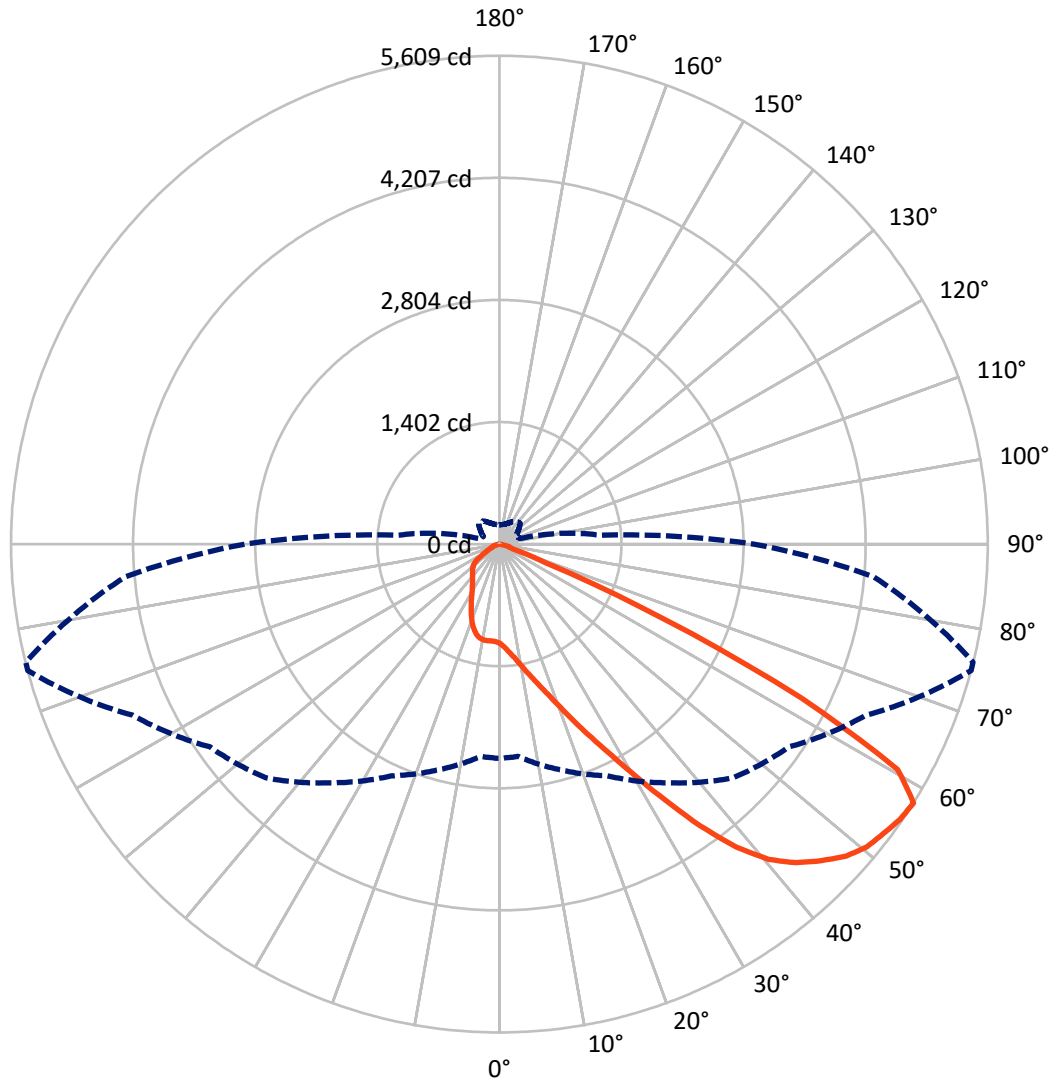
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - N/A

REPORT NUMBER: P632768
CATALOG NUMBER: GWS-SA2D-735-U-T2-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P632768

CATALOG NUMBER: GWS-SA2D-735-U-T2-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1117.4	0.0	1117.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	5723.1	0.0	5723.1
	% Fixture	83.7	0.0	83.7
Total	Lumens	6840.5	0.0	6840.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	1.7
10°-20°	377.1	5.5
20°-30°	690.6	10.1
30°-40°	1145.8	16.8
40°-50°	1749.9	25.6
50°-60°	1966.3	28.7
60°-70°	725.3	10.6
70°-80°	69.3	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°	6840.5	100.0
0°-180°	6840.5	100.0

Coefficient of Utilization



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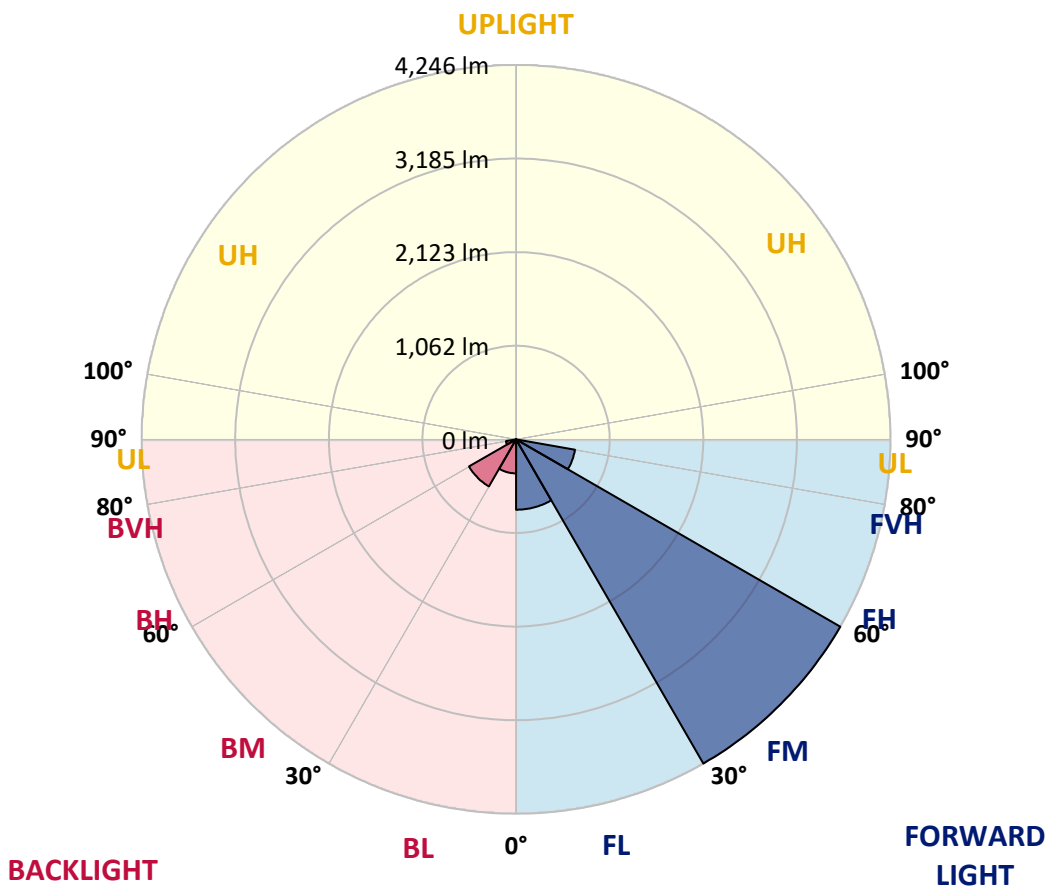
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.3	11.7			
FM (30°-60°)	4246.3	62.1			
FH (60°-80°)	678.6	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	385.6	5.6	B1/500		
BM (30°-60°)	615.8	9.0	B1/1000		
BH (60°-80°)	116.0	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





REPORT NUMBER: P632768

CATALOG NUMBER: GWS-SA2D-735-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9
2.5°	1274.6	1287.8	1283.7	1275.5	1270.5	1253.2	1242.4	1211.1	1188.8	1186.3	1165.7
5°	1435.6	1433.1	1429.8	1419.9	1411.7	1384.4	1352.2	1299.4	1252.3	1246.6	1202.8
7.5°	1524.0	1525.6	1527.3	1525.6	1519.8	1499.2	1463.7	1401.8	1329.9	1325.0	1255.7
10°	1560.3	1563.6	1571.8	1587.5	1601.6	1599.9	1579.3	1515.7	1427.4	1419.1	1325.8
12.5°	1577.6	1581.7	1594.9	1624.7	1662.6	1692.4	1695.7	1638.7	1541.3	1528.1	1409.2
15°	1601.6	1605.7	1622.2	1661.0	1716.3	1774.9	1812.9	1776.6	1667.6	1653.6	1500.8
17.5°	1612.3	1618.1	1642.0	1693.2	1765.0	1855.0	1940.9	1937.5	1817.0	1806.3	1607.3
20°	1632.9	1637.1	1658.5	1713.8	1800.5	1930.1	2074.6	2126.6	1999.5	1983.8	1736.1
22.5°	1698.1	1699.8	1709.7	1744.4	1825.3	1984.6	2210.8	2347.0	2214.9	2194.3	1880.6
25°	1804.6	1803.8	1807.9	1813.7	1873.2	2039.9	2342.1	2595.5	2461.8	2439.5	2044.0
27.5°	1940.0	1940.0	1949.9	1933.4	1957.4	2108.4	2471.7	2881.1	2749.1	2717.7	2223.2
30°	2099.4	2098.5	2121.6	2095.2	2102.7	2216.6	2611.2	3192.4	3095.8	3057.0	2429.6
32.5°	2315.6	2310.7	2337.1	2300.8	2276.0	2380.0	2781.3	3517.6	3511.0	3451.6	2688.8
35°	2588.9	2580.6	2588.9	2553.4	2508.8	2608.7	3004.2	3842.1	3971.7	3908.9	2997.5
37.5°	2860.5	2886.9	2896.0	2834.9	2798.6	2898.5	3272.5	4132.7	4411.7	4346.5	3318.7
40°	3180.8	3172.6	3203.9	3135.4	3112.3	3222.9	3535.0	4349.0	4760.1	4698.2	3604.3
42.5°	3416.9	3431.8	3470.6	3432.6	3414.4	3518.5	3755.4	4475.3	5002.0	4940.9	3808.2
45°	3700.1	3710.8	3725.7	3694.3	3675.3	3777.7	3914.7	4530.6	5186.1	5120.0	3945.3
47.5°	4006.4	4014.6	4014.6	3950.2	3889.1	3931.2	4021.2	4561.9	5355.3	5291.7	4046.8
50°	4226.0	4230.1	4266.4	4221.0	4088.1	4022.9	4069.9	4592.5	5467.6	5408.1	4079.8
52.5°	4031.1	4026.2	4145.9	4240.0	4275.5	4145.9	4154.1	4637.1	5522.1	5470.9	4106.2
55°	3394.6	3386.4	3554.8	3783.5	4096.3	4262.3	4255.7	4663.5	5582.3	5550.9	4202.0
57.5°	2460.9	2446.9	2681.4	2935.6	3345.9	3795.8	4060.0	4648.6	5608.7	5606.3	4313.5
60°	1479.4	1467.8	1689.1	1956.5	2273.5	2725.9	3164.3	4164.0	5255.4	5260.4	4023.7
62.5°	910.6	921.3	1121.1	1257.3	1375.4	1511.6	1765.0	2801.1	3893.3	3925.5	2827.5
65°	612.6	620.8	805.7	977.4	977.4	799.1	686.0	1339.0	2077.1	2022.6	1337.4
67.5°	411.1	420.2	566.3	766.9	795.8	557.2	278.2	399.6	578.7	561.4	331.0
70°	241.9	251.8	377.3	525.9	579.5	388.0	185.7	169.2	164.3	159.3	128.8
72.5°	108.1	112.3	192.4	267.5	244.4	163.5	131.3	135.4	128.0	125.5	104.8
75°	33.0	34.7	49.5	57.8	58.6	58.6	79.3	106.5	100.7	101.5	80.9
77.5°	8.3	8.3	13.2	12.4	6.6	5.8	14.9	23.9	24.8	22.3	16.5
80°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
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



REPORT NUMBER: P632768

CATALOG NUMBER: GWS-SA2D-735-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9
2.5°	1156.6	1135.1	1121.1	1101.3	1087.2	1072.4	1059.2	1048.4	1042.7	1041.0	1041.8
5°	1183.0	1149.2	1116.1	1078.2	1051.7	1027.0	1007.2	991.5	984.0	981.6	981.6
7.5°	1223.5	1176.4	1117.8	1058.3	1013.8	975.0	951.9	934.5	927.9	926.3	921.3
10°	1276.3	1211.9	1115.3	1022.8	960.1	919.7	903.1	898.2	900.7	901.5	900.7
12.5°	1339.9	1249.0	1099.6	970.8	903.1	878.4	880.0	893.2	908.1	915.5	917.2
15°	1407.6	1282.9	1064.1	908.9	854.4	853.6	877.6	908.1	937.0	949.4	952.7
17.5°	1483.5	1310.1	1009.6	842.9	812.3	836.3	879.2	926.3	965.1	985.7	989.8
20°	1566.9	1332.4	940.3	781.0	775.2	818.1	877.6	935.3	983.2	1006.3	1010.5
22.5°	1653.6	1348.1	860.2	724.0	741.3	797.5	861.9	918.0	963.4	989.8	993.1
25°	1752.6	1349.8	778.5	676.1	710.0	769.4	823.9	870.1	908.1	931.2	933.7
27.5°	1839.3	1329.9	705.8	637.3	681.1	734.7	771.1	796.6	823.1	836.3	837.1
30°	1939.2	1295.3	637.3	605.9	651.4	691.8	710.0	715.7	718.2	720.7	717.4
32.5°	2058.1	1253.2	586.1	575.4	617.5	644.7	649.7	638.1	624.1	604.3	599.3
35°	2204.2	1215.2	544.0	545.7	580.4	596.9	592.7	568.0	540.7	516.8	512.7
37.5°	2362.7	1183.0	511.8	516.8	539.9	551.5	539.1	511.8	499.5	478.8	479.6
40°	2503.0	1156.6	482.9	487.9	498.6	509.4	489.5	471.4	494.5	492.8	494.5
42.5°	2602.9	1134.3	458.2	455.7	463.1	470.6	455.7	446.6	485.4	474.7	480.5
45°	2661.6	1113.7	437.5	422.7	434.2	447.4	437.5	426.0	439.2	389.7	385.5
47.5°	2701.2	1102.1	419.4	390.5	411.1	434.2	413.6	385.5	366.5	323.6	320.3
50°	2705.3	1096.3	397.9	357.5	383.9	408.6	384.7	345.9	318.7	299.7	297.2
52.5°	2726.8	1107.9	368.2	315.4	344.3	383.9	367.4	328.6	291.4	274.9	271.6
55°	2822.5	1156.6	318.7	257.6	299.7	364.9	353.3	293.1	257.6	247.7	245.2
57.5°	2921.6	1166.5	251.0	203.9	260.9	337.6	322.8	270.0	235.3	223.7	221.2
60°	2671.5	960.9	188.2	168.4	230.3	312.1	298.8	255.9	215.5	201.4	199.0
62.5°	1755.1	519.3	149.4	142.8	194.0	264.2	272.4	231.2	192.4	177.5	176.7
65°	809.0	241.1	114.8	113.1	151.9	210.5	234.5	202.3	162.6	149.4	149.4
67.5°	220.4	119.7	90.0	83.4	103.2	141.2	170.9	151.1	115.6	99.9	99.1
70°	109.8	96.6	80.9	71.8	74.3	87.5	100.7	84.2	58.6	47.9	47.1
72.5°	90.0	79.3	68.5	61.1	56.1	53.7	52.0	42.1	27.2	20.6	19.8
75°	66.9	57.0	48.7	39.6	33.8	31.4	28.1	20.6	11.6	6.6	5.8
77.5°	14.9	14.0	13.2	9.9	9.1	7.4	5.8	4.1	1.7	0.0	0.0
80°	0.8	0.8	0.8	0.8	0.8	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)