

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: P637392

Luminaire Tested: GWS-SA4C-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637392
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-SA4C-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13128.3 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

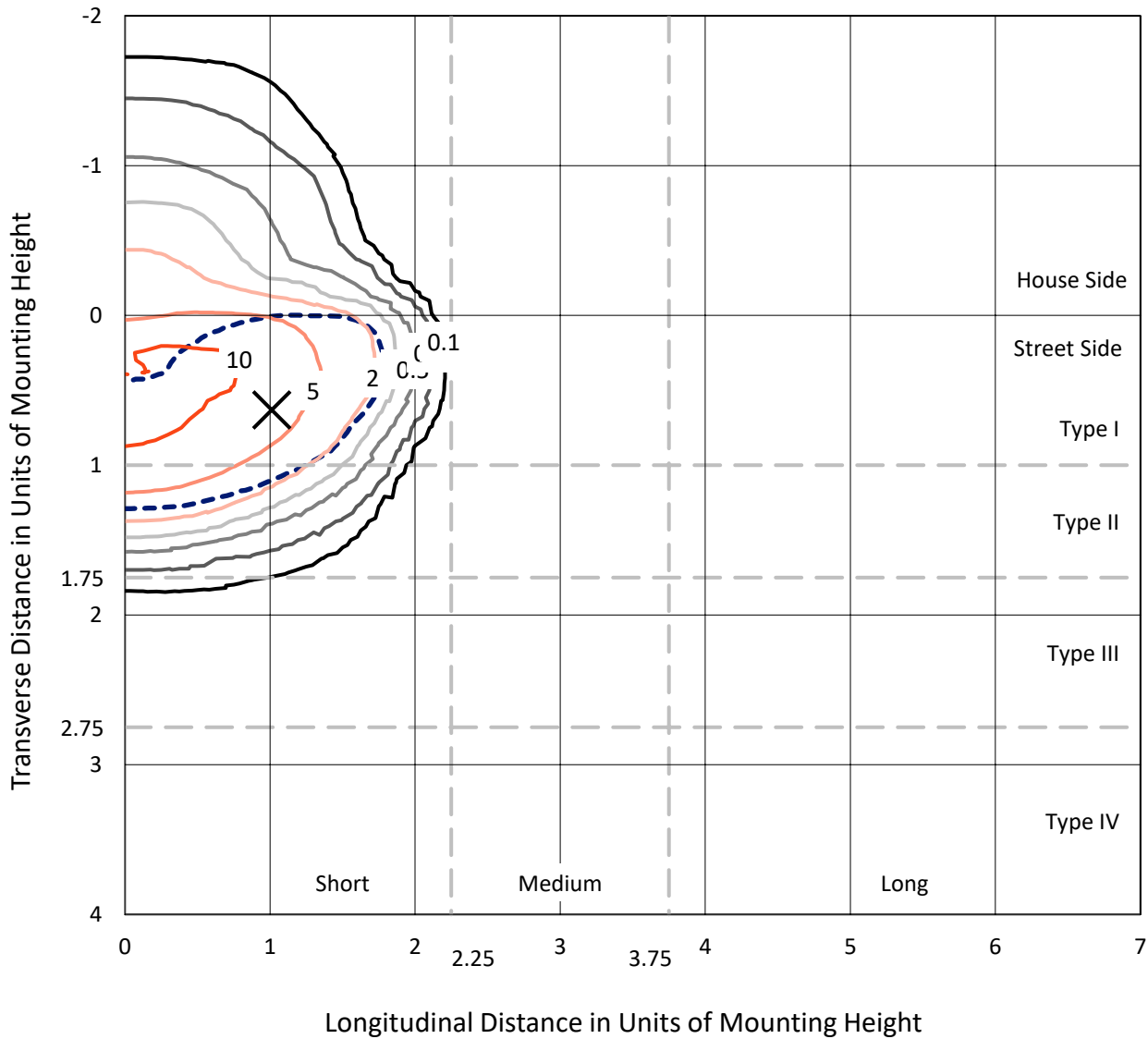
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

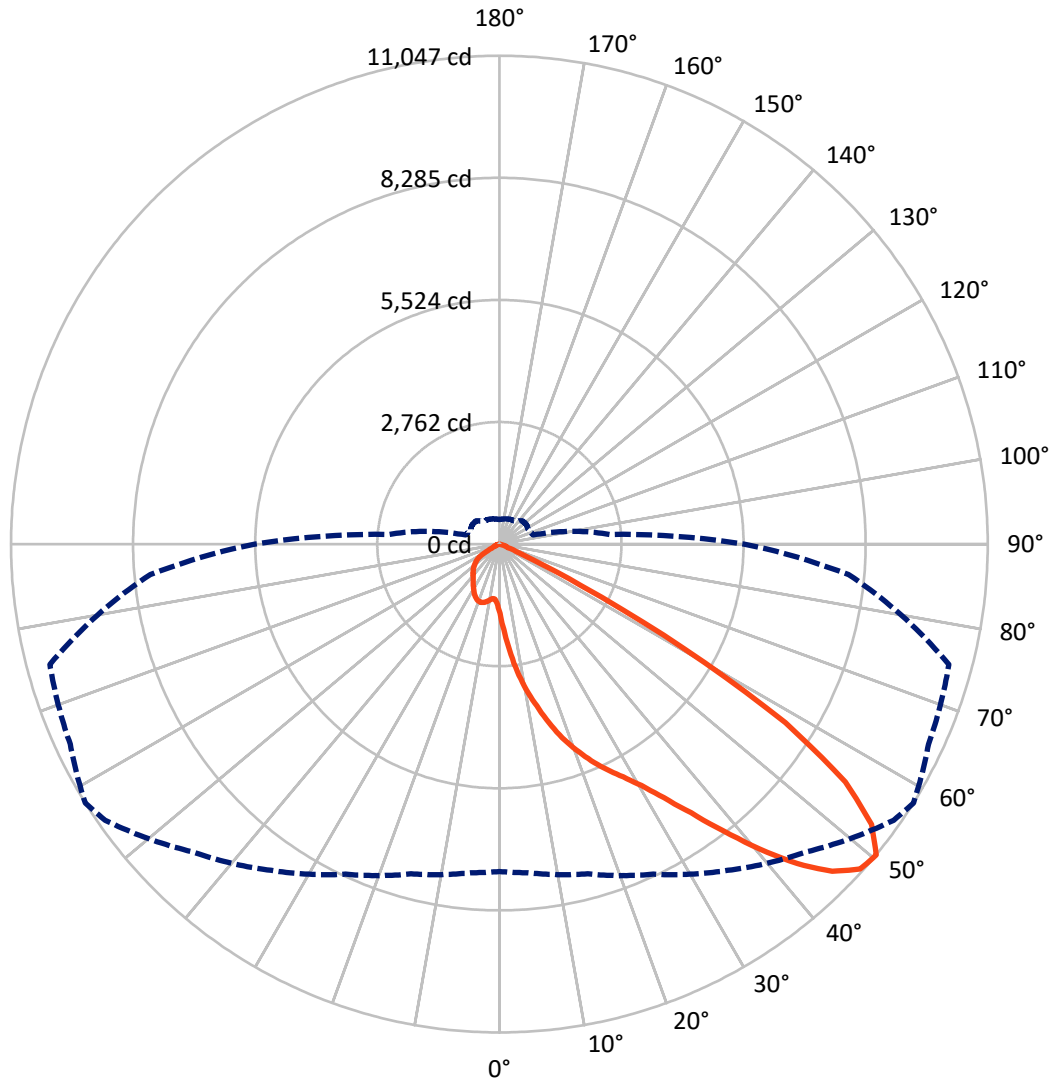
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1838.8	0.0	1838.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	11289.5	0.0	11289.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	13128.3	0.0	13128.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	1.5
10°-20°	769.1	5.9
20°-30°	1556.2	11.9
30°-40°	2753.1	21.0
40°-50°	4013.5	30.6
50°-60°	3216.9	24.5
60°-70°	579.6	4.4
70°-80°	45.7	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°	13128.3	100.0
0°-180°	13128.3	100.0

Coefficient of Utilization



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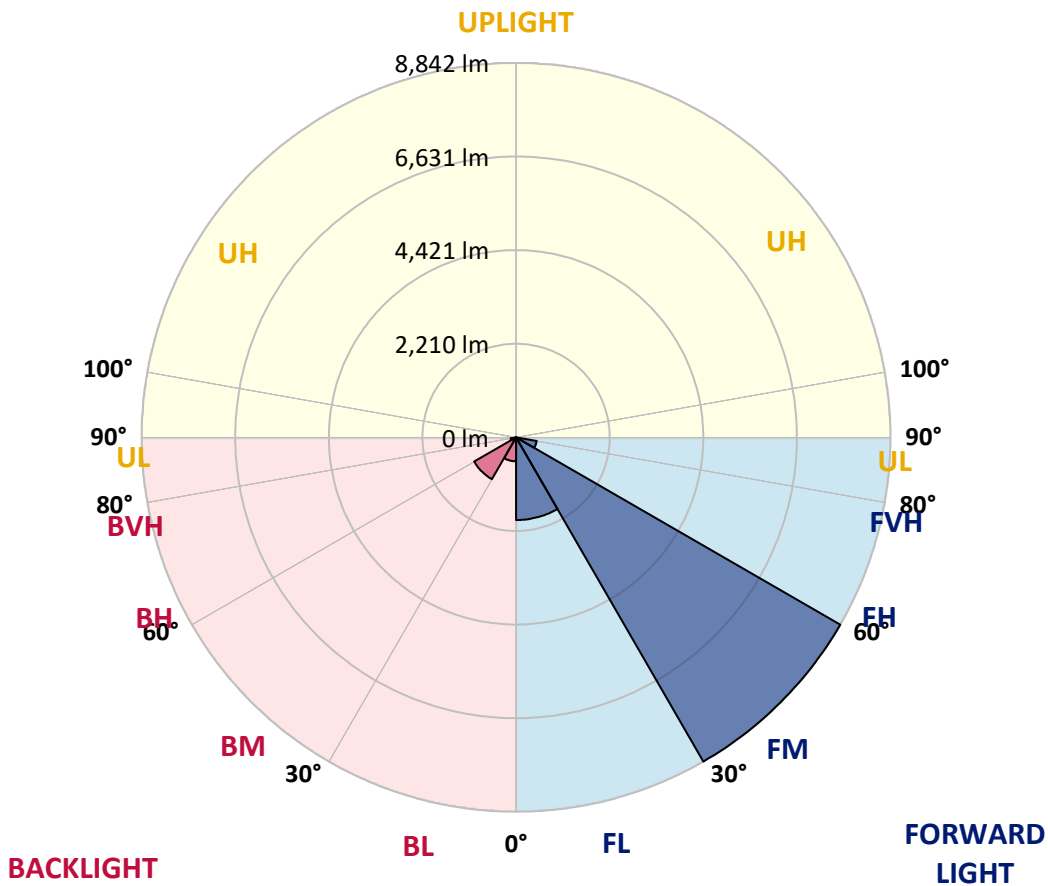
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1953.5	14.9			
FM (30°-60°)	8841.5	67.3			
FH (60°-80°)	494.5	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	566.1	4.3	B2/1000		
BM (30°-60°)	1142.0	8.7	B2/2500		
BH (60°-80°)	130.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2
2.5°	2320.6	2284.1	2263.1	2246.2	2171.8	2053.9	1976.7	1936.0	1868.6	1754.9	1656.6
5°	3028.2	3001.5	2952.4	2918.7	2823.2	2656.2	2483.5	2414.7	2261.7	2004.8	1774.5
7.5°	3497.1	3477.5	3459.2	3414.3	3324.4	3172.8	2981.9	2910.3	2674.4	2309.4	1931.8
10°	3857.9	3842.5	3821.4	3820.0	3749.8	3613.6	3426.9	3352.5	3097.0	2640.7	2117.1
12.5°	4175.2	4162.6	4158.3	4197.7	4152.7	4051.6	3849.5	3756.8	3485.9	2979.1	2322.0
15°	4392.8	4390.0	4408.2	4485.5	4510.7	4464.4	4294.5	4194.8	3883.2	3318.8	2548.1
17.5°	4492.5	4500.9	4536.0	4669.4	4781.7	4821.0	4690.4	4606.2	4277.7	3662.8	2789.5
20°	4662.3	4659.5	4680.6	4806.9	4944.5	5084.9	5045.6	4974.0	4676.4	4026.4	3057.7
22.5°	5141.1	5100.4	5055.4	5075.1	5124.2	5288.5	5361.5	5325.0	5087.7	4399.8	3334.3
25°	5876.7	5834.6	5690.0	5549.6	5456.9	5531.4	5631.0	5649.3	5496.3	4783.1	3623.5
27.5°	6657.3	6619.4	6456.5	6245.9	5980.6	5851.4	5925.8	5962.4	5897.8	5239.3	3930.9
30°	7388.7	7338.2	7159.9	6898.7	6591.3	6393.3	6309.1	6334.4	6372.3	5779.8	4291.7
32.5°	8023.3	7985.4	7772.0	7496.8	7200.6	6994.2	6797.7	6839.8	6932.4	6441.1	4753.6
35°	8561.0	8541.3	8315.3	8041.5	7728.5	7623.2	7454.7	7463.1	7555.8	7239.9	5316.6
37.5°	9028.5	8994.8	8789.8	8535.7	8287.2	8270.4	8224.0	8228.2	8276.0	8170.7	5963.8
40°	9323.3	9292.4	9146.4	8989.2	8812.3	8815.1	9055.1	9073.4	9018.6	9084.6	6647.5
42.5°	9434.2	9411.7	9333.1	9334.5	9316.3	9399.1	9849.7	9883.4	9686.9	9802.0	7231.5
45°	9241.9	9232.0	9237.6	9439.8	9658.8	9914.3	10499.7	10558.7	10280.7	10277.9	7687.7
47.5°	8621.3	8601.7	8765.9	9109.9	9616.7	10113.7	10892.8	10984.1	10696.3	10550.3	7974.1
50°	7405.6	7461.7	7721.4	8238.1	9008.8	9839.9	10888.6	11047.3	10711.7	10526.4	7926.4
52.5°	5364.3	5353.1	5921.6	6632.0	7569.8	8963.9	10310.2	10541.9	10336.9	10292.0	7819.7
55°	2918.7	3021.2	3404.5	4345.1	5515.9	7305.9	8989.2	9494.6	9731.8	10206.3	8012.0
57.5°	1072.6	1117.5	1357.6	2023.0	2920.1	4543.0	6866.5	7628.8	8361.6	9967.7	7979.8
60°	432.4	440.8	536.3	744.1	1227.0	2312.2	4119.0	4795.7	5486.4	7630.2	6123.8
62.5°	314.5	325.7	363.6	435.2	620.5	1010.8	1775.9	2065.1	2257.5	3779.3	3017.0
65°	254.1	262.5	293.4	325.7	409.9	543.3	572.8	551.7	548.9	977.1	692.1
67.5°	210.6	219.0	241.5	263.9	294.8	271.0	196.5	206.4	168.5	167.1	136.2
70°	154.4	164.3	186.7	210.6	176.9	73.0	113.7	168.5	127.8	106.7	103.9
72.5°	116.5	123.5	144.6	137.6	51.9	28.1	75.8	122.1	98.3	78.6	77.2
75°	87.0	91.3	73.0	22.5	5.6	7.0	28.1	50.5	54.8	44.9	44.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.2	5.6	7.0	8.4
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°	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2
2.5°	1600.4	1541.5	1457.2	1387.1	1333.7	1281.8	1242.4	1203.1	1201.7	1182.1	1177.9
5°	1667.8	1561.1	1406.7	1295.8	1228.4	1187.7	1159.6	1145.6	1138.6	1131.5	1128.7
7.5°	1764.7	1611.7	1398.3	1280.4	1224.2	1197.5	1177.9	1169.4	1165.2	1159.6	1158.2
10°	1884.0	1684.7	1429.2	1309.8	1260.7	1235.4	1214.4	1201.7	1194.7	1184.9	1182.1
12.5°	2027.2	1774.5	1478.3	1359.0	1307.0	1273.3	1245.3	1227.0	1217.2	1204.5	1201.7
15°	2181.7	1871.4	1533.1	1403.9	1342.1	1298.6	1263.5	1235.4	1217.2	1201.7	1197.5
17.5°	2341.7	1969.7	1582.2	1434.8	1359.0	1307.0	1256.5	1218.6	1196.1	1176.5	1170.9
20°	2521.4	2070.7	1614.5	1440.4	1353.4	1284.6	1225.6	1177.9	1155.4	1128.7	1123.1
22.5°	2709.5	2164.8	1628.5	1427.8	1322.5	1242.4	1179.3	1130.1	1097.8	1069.8	1061.3
25°	2892.0	2249.0	1621.5	1392.7	1276.1	1183.5	1118.9	1068.4	1033.3	1005.2	998.2
27.5°	3085.8	2319.2	1596.2	1340.7	1213.0	1118.9	1057.1	1013.6	981.3	950.4	943.4
30°	3303.4	2383.8	1555.5	1277.5	1138.6	1052.9	1005.2	975.7	940.6	908.3	898.5
32.5°	3565.9	2441.4	1496.6	1201.7	1072.6	995.4	968.7	946.2	905.5	871.8	864.8
35°	3866.3	2489.1	1422.1	1123.1	1008.0	958.9	953.2	923.8	870.4	831.1	822.7
37.5°	4214.5	2535.4	1333.7	1045.9	960.3	942.0	943.4	892.9	828.3	780.6	775.0
40°	4589.3	2581.8	1235.4	978.5	916.7	932.2	919.6	848.0	742.7	696.3	690.7
42.5°	4979.6	2632.3	1135.8	915.3	880.2	894.3	876.0	758.1	682.3	658.4	655.6
45°	5332.0	2692.7	1027.7	852.2	843.7	839.5	808.6	686.5	654.2	637.4	636.0
47.5°	5586.1	2682.8	912.5	791.8	804.4	790.4	696.3	652.8	626.1	603.7	598.1
50°	5539.8	2511.6	793.2	724.4	753.9	741.3	626.1	613.5	589.6	565.8	557.3
52.5°	5421.9	2278.5	689.3	652.8	699.1	669.7	578.4	565.8	544.7	513.8	504.0
55°	5485.0	2059.5	607.9	595.3	643.0	554.5	525.1	505.4	482.9	449.2	445.0
57.5°	5281.5	1680.5	488.6	497.0	568.6	473.1	460.5	429.6	391.7	369.2	366.4
60°	3655.7	902.7	306.0	315.9	411.3	397.3	412.7	384.7	338.3	317.3	313.1
62.5°	1679.1	362.2	167.1	160.0	216.2	269.5	353.8	351.0	293.4	259.7	256.9
65°	407.1	165.7	119.3	112.3	122.1	161.4	230.2	276.6	237.3	197.9	193.7
67.5°	132.0	134.8	109.5	102.5	108.1	120.7	137.6	153.0	151.6	139.0	136.2
70°	105.3	122.1	101.1	92.7	92.7	96.9	92.7	74.4	64.6	70.2	73.0
72.5°	78.6	92.7	80.0	71.6	68.8	67.4	57.6	42.1	29.5	26.7	25.3
75°	46.3	51.9	49.1	42.1	39.3	35.1	28.1	18.3	9.8	7.0	4.2
77.5°	8.4	9.8	11.2	8.4	7.0	5.6	4.2	1.4	0.0	0.0	0.0
80°	0.0	1.4	1.4	1.4	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)