

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: P637527

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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: 13585.6 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

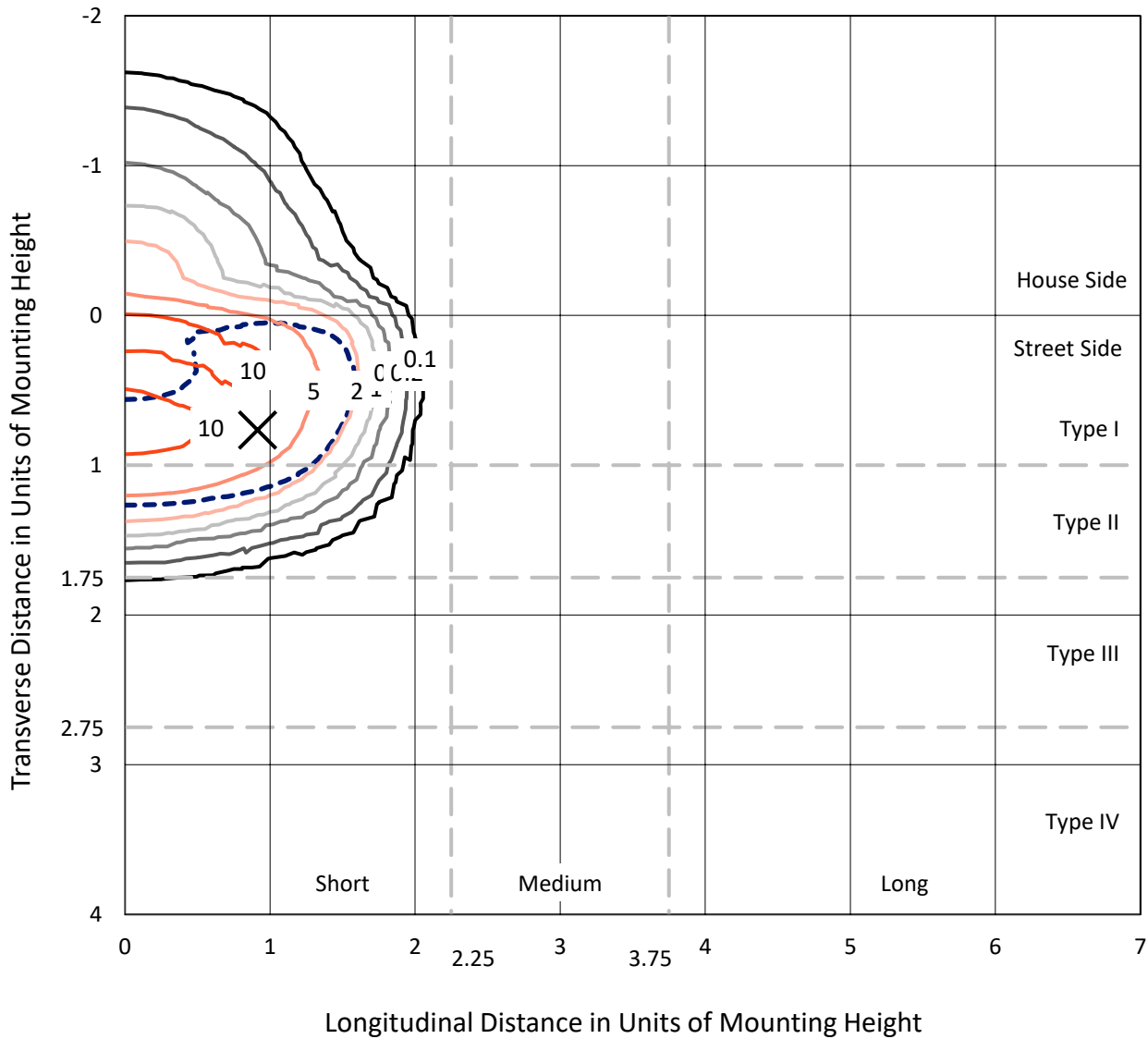
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

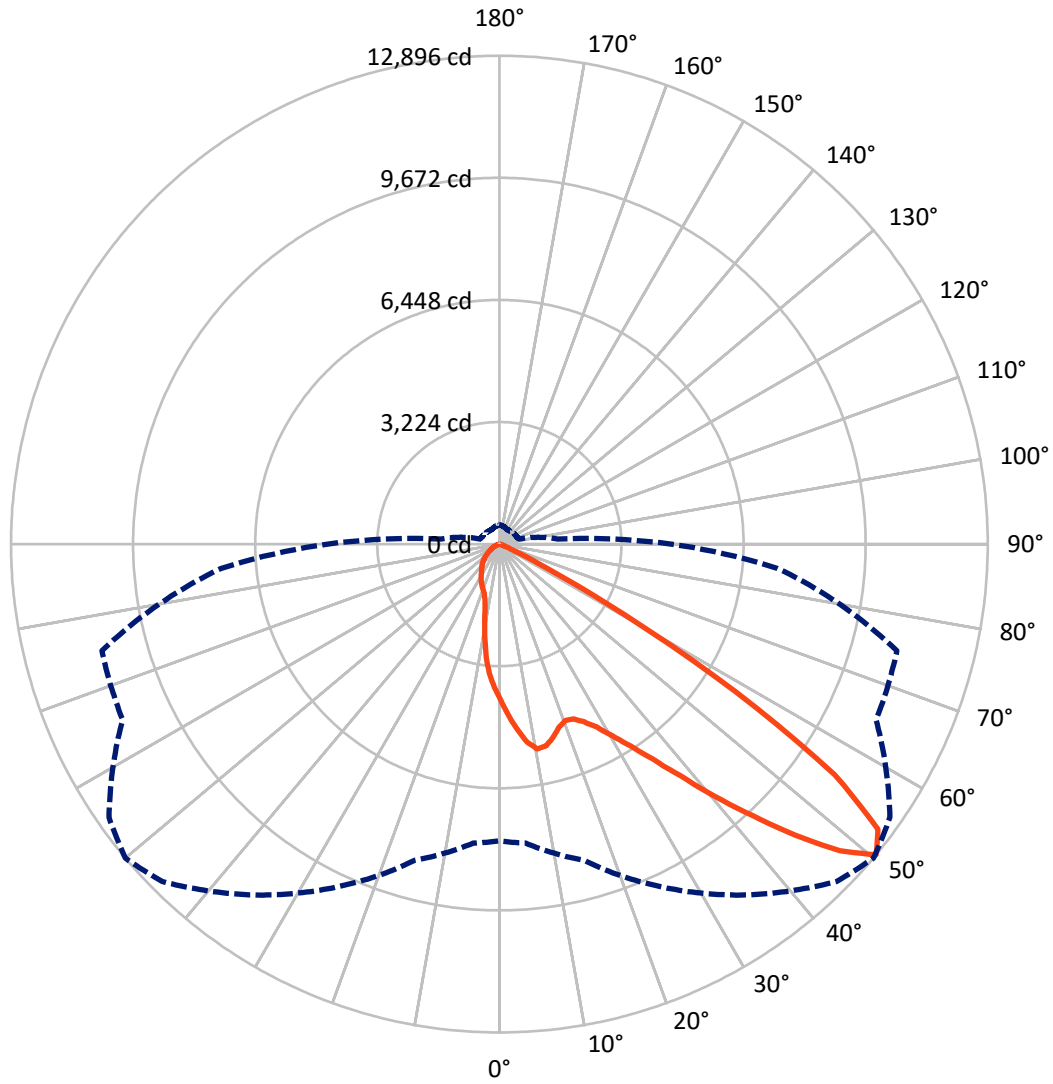
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1745.5	0.0	1745.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11840.1	0.0	11840.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	13585.6	0.0	13585.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.8	2.8
10°-20°	985.1	7.3
20°-30°	1625.8	12.0
30°-40°	2682.9	19.7
40°-50°	4244.9	31.2
50°-60°	3213.9	23.7
60°-70°	402.2	3.0
70°-80°	45.5	0.3
80°-90°	3.5	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°	13585.6	100.0
0°-180°	13585.6	100.0

Coefficient of Utilization



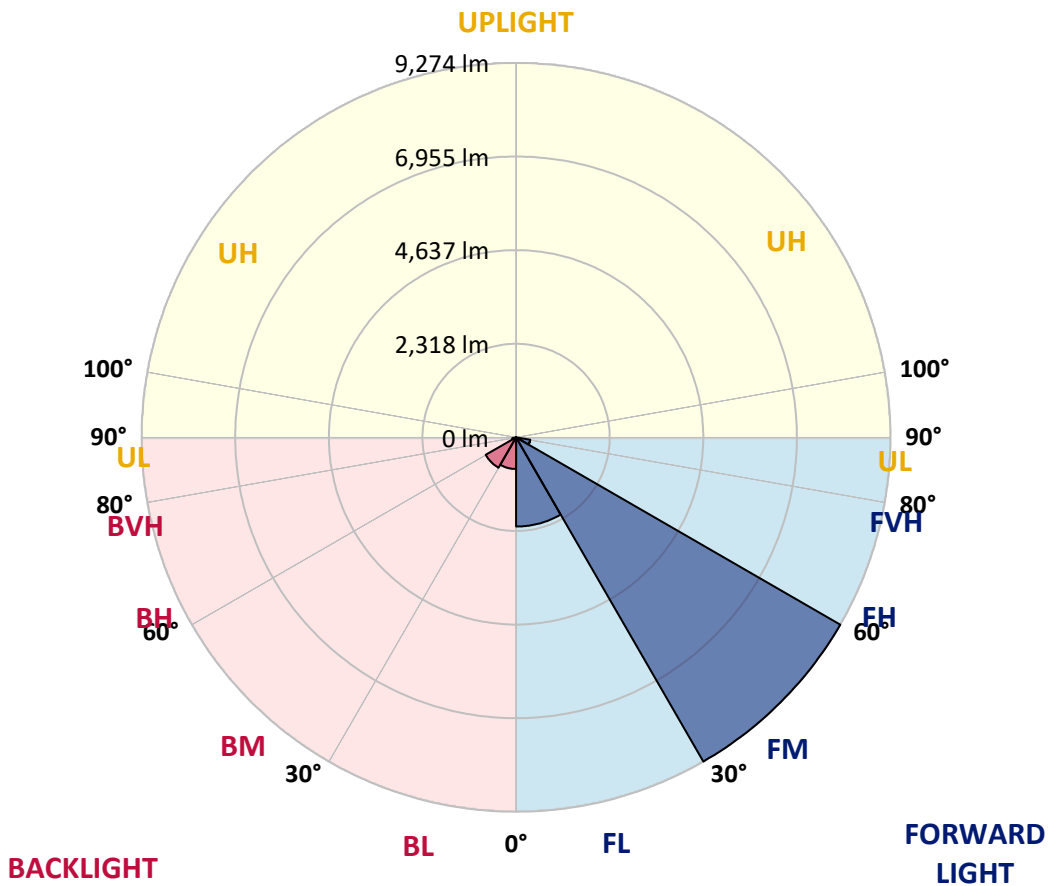
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2209.2	16.3			
FM (30°-60°)	9273.6	68.3			
FH (60°-80°)	355.6	2.6			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	783.5	5.8	B2/1000		
BM (30°-60°)	868.1	6.4	B1/1000		
BH (60°-80°)	92.1	0.7	B0/110		G0/110
BVH (80°-90°)	1.9	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4115.9	4115.9	4115.9	4115.9	4115.9	4115.9	4115.9	4115.9	4115.9	4115.9	4115.9
2.5°	4690.0	4727.5	4717.2	4668.0	4615.0	4577.5	4519.3	4501.2	4369.3	4277.5	4180.6
5°	5256.4	5268.0	5255.1	5195.6	5102.5	5013.3	4917.6	4862.0	4640.9	4441.8	4238.7
7.5°	5392.2	5377.9	5402.5	5432.3	5419.3	5380.5	5279.7	5218.9	4955.1	4630.5	4322.8
10°	4968.0	4935.7	5027.5	5181.4	5343.0	5525.4	5499.5	5504.7	5261.6	4868.5	4432.7
12.5°	4405.5	4392.6	4461.2	4639.6	4956.4	5370.2	5469.8	5636.6	5542.2	5125.8	4558.1
15°	4158.6	4165.0	4206.4	4318.9	4546.5	5061.1	5300.4	5601.7	5793.0	5375.4	4696.5
17.5°	4196.1	4219.3	4218.1	4255.6	4393.9	4806.4	5085.7	5491.7	5987.0	5662.4	4855.5
20°	4450.8	4474.1	4439.2	4410.7	4457.3	4741.8	4973.2	5380.5	6117.6	5952.1	5023.6
22.5°	4832.3	4859.4	4776.7	4695.2	4665.5	4847.8	5015.9	5335.3	6217.2	6217.2	5173.6
25°	5293.9	5331.4	5203.4	5058.6	4975.8	5071.5	5198.2	5437.4	6319.3	6455.1	5275.8
27.5°	5809.8	5811.1	5701.2	5538.3	5383.1	5394.8	5471.1	5667.6	6431.8	6711.1	5356.0
30°	6390.4	6394.3	6248.2	6052.9	5857.7	5804.7	5869.3	6018.0	6665.9	7033.1	5467.2
32.5°	7140.4	7158.5	6949.1	6662.0	6408.5	6309.0	6346.5	6502.9	7038.3	7436.5	5634.0
35°	8154.2	8173.6	7864.6	7485.7	7082.2	6932.2	6969.7	7127.5	7577.5	8009.4	5900.4
37.5°	9155.1	9180.9	8868.0	8515.0	7961.5	7713.3	7752.1	7902.1	8387.0	8800.8	6327.1
40°	9846.9	9881.8	9784.8	9546.9	9033.5	8707.6	8754.2	8808.5	9277.9	9747.3	6880.5
42.5°	10211.5	10260.6	10302.0	10423.6	10153.3	9880.5	9801.6	9805.5	10184.4	10711.9	7455.9
45°	10233.5	10281.3	10493.4	10962.8	11168.4	11111.5	10968.0	10871.0	10876.2	11354.6	7815.4
47.5°	9522.3	9611.5	10008.5	10927.9	11701.1	12173.1	12100.7	11870.5	11167.1	11397.3	7776.6
50°	7837.4	7925.3	8646.9	9969.7	11313.2	12597.3	12896.0	12586.9	10977.0	10865.8	7377.1
52.5°	5692.2	5701.2	6169.3	7714.6	9740.8	11814.9	12518.4	12488.6	10687.4	10221.9	6831.4
55°	2703.8	2671.5	3197.8	4353.8	6737.0	9555.9	10741.7	11077.9	10276.2	9756.3	6408.5
57.5°	787.5	803.0	1037.1	1699.1	3369.8	6107.3	7356.4	7982.2	8434.8	8021.0	4970.6
60°	353.0	354.3	394.4	517.2	1122.4	2840.9	3803.0	4577.5	5043.0	4673.2	2465.9
62.5°	256.0	257.3	272.8	292.2	381.5	962.1	1426.3	1900.8	1935.8	1267.2	624.6
65°	213.4	213.4	215.9	215.9	228.9	344.0	433.2	558.6	470.7	349.1	244.4
67.5°	172.0	173.3	175.9	175.9	172.0	172.0	186.2	204.3	218.5	270.3	225.0
70°	134.5	133.2	133.2	134.5	130.6	111.2	120.3	137.1	150.0	210.8	195.3
72.5°	104.7	106.0	104.7	99.6	90.5	65.9	71.1	89.2	95.7	131.9	131.9
75°	78.9	80.2	75.0	56.9	37.5	20.7	27.2	44.0	55.6	64.7	47.8
77.5°	10.3	10.3	7.8	7.8	6.5	7.8	7.8	10.3	15.5	15.5	11.6
80°	1.3	1.3	1.3	2.6	3.9	5.2	5.2	5.2	5.2	6.5	6.5
82.5°	1.3	1.3	1.3	1.3	3.9	3.9	5.2	5.2	5.2	5.2	5.2
85°	0.0	0.0	0.0	1.3	2.6	3.9	3.9	5.2	5.2	5.2	5.2
87.5°	0.0	0.0	0.0	1.3	2.6	3.9	3.9	3.9	5.2	5.2	5.2
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°	4115.9	4115.9	4115.9	4115.9	4115.9	4115.9	4115.9	4115.9	4115.9	4115.9	4115.9
2.5°	4122.4	4047.4	3956.8	3894.8	3806.8	3748.7	3665.9	3610.3	3562.5	3525.0	3545.6
5°	4123.7	4004.7	3819.8	3662.0	3490.0	3332.3	3162.9	3029.7	2909.4	2855.1	2884.9
7.5°	4149.5	3978.8	3695.6	3415.0	3085.3	2759.4	2454.3	2206.0	2083.2	2025.0	2043.1
10°	4199.9	3967.2	3557.3	3091.8	2556.4	2111.6	1815.5	1647.4	1578.9	1542.7	1549.1
12.5°	4246.5	3959.4	3377.5	2666.3	2017.2	1638.3	1484.5	1461.2	1475.4	1476.7	1475.4
15°	4309.9	3945.2	3155.1	2229.3	1613.8	1415.9	1419.8	1453.4	1487.1	1497.4	1494.8
17.5°	4377.1	3923.2	2868.1	1810.3	1369.4	1351.3	1396.5	1441.8	1475.4	1480.6	1481.9
20°	4446.9	3878.0	2540.9	1478.0	1255.6	1302.1	1352.6	1386.2	1410.8	1418.5	1421.1
22.5°	4479.3	3782.3	2163.3	1240.1	1179.3	1241.4	1278.9	1322.8	1330.6	1302.1	1307.3
25°	4462.4	3620.6	1794.8	1079.7	1103.0	1165.1	1220.7	1198.7	1166.4	1145.7	1152.1
27.5°	4409.4	3406.0	1434.0	962.1	1021.5	1100.4	1106.9	1082.3	1077.1	1060.3	1065.5
30°	4352.5	3159.0	1153.4	867.7	938.8	1021.5	1002.1	1011.2	1012.5	993.1	999.6
32.5°	4317.6	2900.4	918.1	804.3	885.8	901.3	940.1	958.2	959.5	914.2	922.0
35°	4329.3	2645.7	777.1	752.6	836.6	832.7	887.1	897.4	822.4	760.3	766.8
37.5°	4423.7	2410.3	697.0	712.5	751.3	781.0	822.4	753.9	737.1	708.6	712.5
40°	4599.5	2209.9	649.1	687.9	693.1	740.9	677.6	686.6	687.9	669.8	673.7
42.5°	4805.1	2043.1	620.7	673.7	660.8	668.5	605.2	623.3	642.7	634.9	636.2
45°	4908.6	1880.1	596.1	624.6	628.4	554.7	540.5	559.9	584.5	588.4	589.6
47.5°	4816.7	1725.0	570.3	553.4	579.3	505.6	488.8	495.3	523.7	539.2	541.8
50°	4536.2	1546.5	531.5	490.1	475.9	453.9	438.4	439.6	472.0	499.1	504.3
52.5°	4141.8	1360.3	468.1	415.1	382.8	399.6	403.4	395.7	425.4	452.6	457.8
55°	3759.0	1127.6	371.1	337.5	307.8	344.0	354.3	344.0	353.0	371.1	372.4
57.5°	2646.9	637.5	284.5	279.3	254.7	294.8	311.6	296.1	280.6	292.2	294.8
60°	1227.1	333.6	218.5	218.5	212.1	253.4	281.9	259.9	230.2	235.3	239.2
62.5°	384.0	210.8	160.3	151.3	173.3	215.9	239.2	217.2	182.3	182.3	187.5
65°	217.2	181.0	126.7	116.4	140.9	173.3	187.5	164.2	133.2	130.6	130.6
67.5°	201.7	172.0	112.5	94.4	99.6	111.2	116.4	100.9	91.8	90.5	91.8
70°	166.8	143.5	90.5	64.7	60.8	59.5	62.1	58.2	55.6	56.9	60.8
72.5°	103.4	86.6	56.9	38.8	33.6	32.3	32.3	32.3	31.0	31.0	31.0
75°	37.5	32.3	25.9	19.4	16.8	15.5	15.5	16.8	15.5	14.2	12.9
77.5°	11.6	10.3	10.3	10.3	9.1	7.8	6.5	6.5	5.2	3.9	3.9
80°	6.5	6.5	6.5	6.5	5.2	5.2	3.9	2.6	1.3	1.3	0.0
82.5°	6.5	6.5	6.5	5.2	5.2	5.2	3.9	2.6	1.3	0.0	0.0
85°	5.2	5.2	5.2	5.2	5.2	5.2	3.9	2.6	1.3	0.0	0.0
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	3.9	2.6	1.3	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)