

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: P637864

Luminaire Tested: GWS-SA4D-760-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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: 14507.6 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

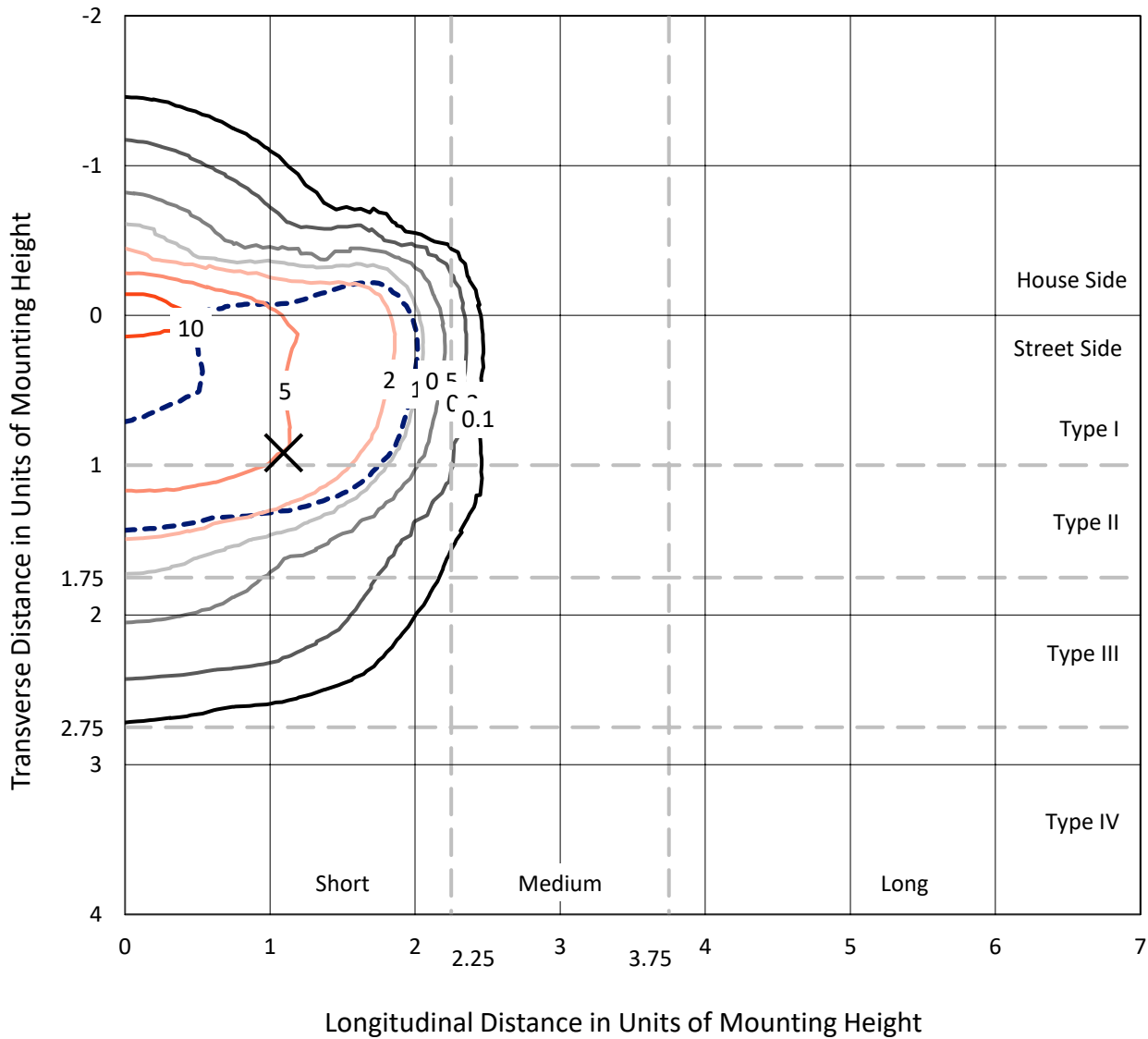
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

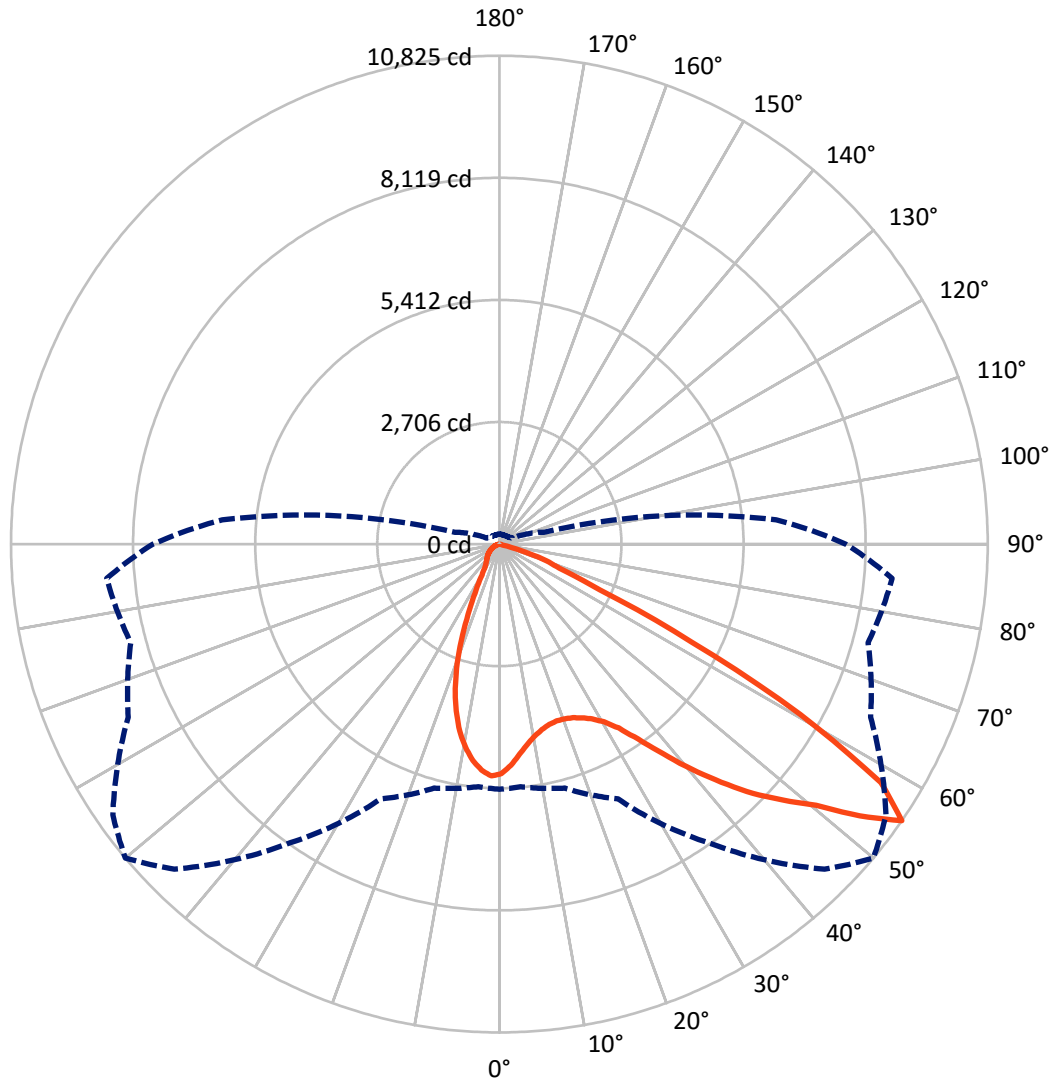
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2858.7	0.0	2858.7
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	11648.9	0.0	11648.9
	% Fixture	80.3	0.0	80.3
Total	Lumens	14507.6	0.0	14507.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.0	3.1
10°-20°	1100.0	7.6
20°-30°	1551.6	10.7
30°-40°	2296.1	15.8
40°-50°	3312.5	22.8
50°-60°	3907.4	26.9
60°-70°	1743.0	12.0
70°-80°	149.9	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°	14507.6	100.0
0°-180°	14507.6	100.0

Coefficient of Utilization

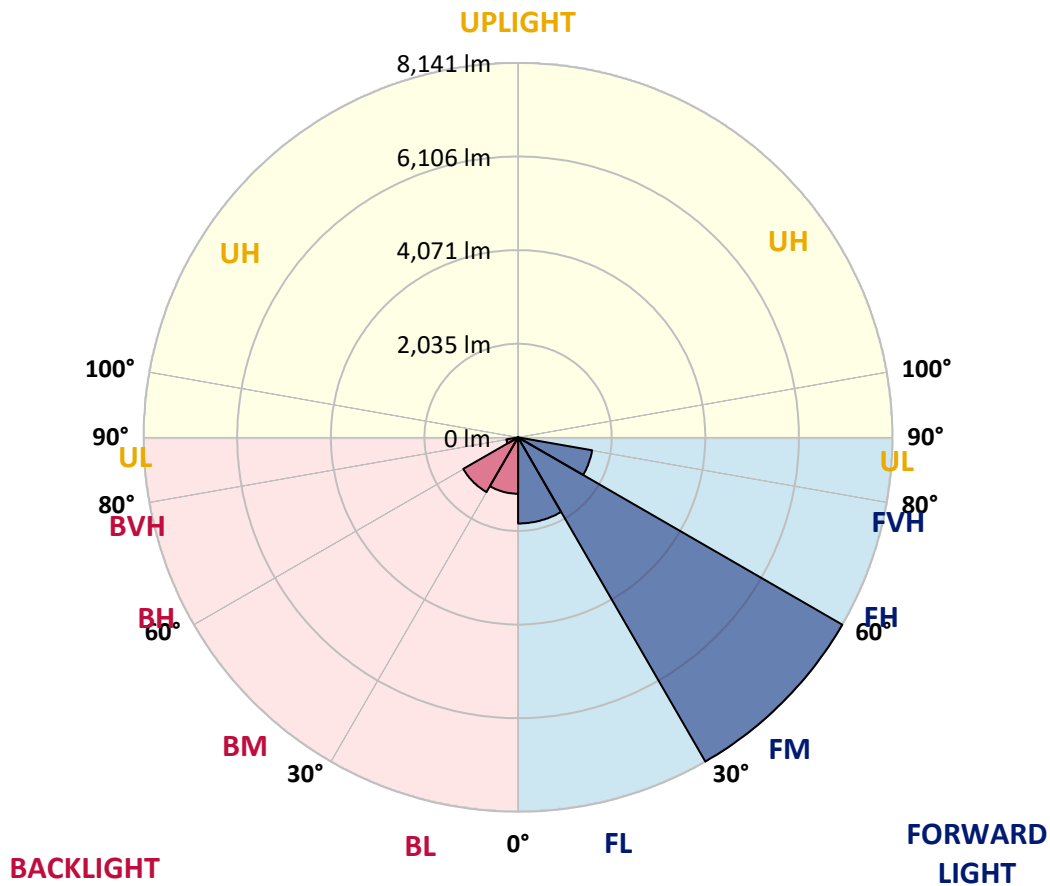


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1873.0	12.9			
FM (30°-60°)	8141.2	56.1			
FH (60°-80°)	1634.7	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1225.7	8.4	B3/2500		
BM (30°-60°)	1374.8	9.5	B2/2500		
BH (60°-80°)	258.1	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5090.1	5090.1	5090.1	5090.1	5090.1	5090.1	5090.1	5090.1	5090.1	5090.1	5090.1
2.5°	4728.8	4732.3	4734.1	4781.9	4799.6	4870.5	4907.7	4927.1	4978.5	5038.7	5088.3
5°	4411.8	4406.4	4415.3	4475.5	4514.5	4619.0	4675.6	4714.6	4828.0	4969.6	5088.3
7.5°	4135.5	4146.1	4156.7	4222.2	4280.7	4394.0	4475.5	4534.0	4691.6	4902.3	5102.5
10°	3940.6	3940.6	3956.6	4031.0	4100.0	4240.0	4321.4	4395.8	4583.5	4842.1	5118.4
12.5°	3797.2	3799.0	3818.4	3903.5	3983.2	4128.4	4213.4	4286.0	4493.2	4781.9	5122.0
15°	3729.9	3724.6	3740.5	3830.8	3919.4	4055.8	4144.3	4215.2	4429.5	4748.3	5139.7
17.5°	3712.2	3708.6	3721.0	3809.6	3899.9	4032.7	4119.5	4190.4	4420.6	4758.9	5192.8
20°	3763.5	3756.5	3751.1	3827.3	3912.3	4043.4	4133.7	4213.4	4463.1	4817.3	5274.3
22.5°	3885.7	3885.7	3873.3	3910.5	3967.2	4085.9	4179.7	4284.2	4574.7	4934.2	5394.7
25°	4110.7	4093.0	4069.9	4085.9	4078.8	4153.2	4264.8	4410.0	4785.4	5127.3	5541.7
27.5°	4367.5	4383.4	4344.4	4346.2	4284.2	4257.7	4387.0	4606.6	5098.9	5400.0	5759.5
30°	4716.4	4704.0	4705.7	4700.4	4557.0	4431.2	4571.1	4863.4	5493.9	5816.2	6042.9
32.5°	4989.1	5006.8	5065.3	5098.9	4911.2	4709.3	4858.1	5212.3	5943.7	6290.9	6390.0
35°	5277.8	5309.7	5428.3	5538.2	5380.5	5148.5	5307.9	5674.5	6367.0	6760.2	6788.5
37.5°	5582.4	5646.2	5787.9	5980.9	5956.1	5750.7	5895.9	6218.2	6700.0	7043.6	7118.0
40°	5931.3	5993.3	6225.3	6503.4	6561.8	6515.8	6563.6	6751.3	6919.6	7056.0	7259.6
42.5°	6313.9	6398.9	6692.9	7064.8	7284.4	7325.2	7213.6	7194.1	7015.2	6914.3	7229.5
45°	6765.5	6864.7	7197.7	7679.4	8028.3	8083.2	7890.1	7640.4	7075.4	6809.8	7139.2
47.5°	7272.0	7365.9	7697.1	8276.2	8795.2	8816.4	8479.9	8077.9	7254.3	6930.2	7208.3
50°	7442.1	7500.5	7787.4	8467.5	9423.9	9586.8	9099.8	8570.2	7613.9	7284.4	7544.8
52.5°	6857.6	6880.6	7130.4	7817.5	9296.4	10343.1	10004.8	9305.2	8253.2	7824.6	8063.7
55°	5433.7	5396.5	5598.4	6228.9	8079.6	10189.0	10824.8	10460.0	9076.8	8458.7	8738.5
57.5°	3800.7	3756.5	3710.4	4137.2	6028.7	8637.5	9974.7	10621.1	9861.4	9087.4	9466.4
60°	3124.2	3081.7	2858.5	2661.9	3644.9	6202.3	7661.7	8878.4	9797.6	9055.5	9443.4
62.5°	2699.1	2674.3	2584.0	2316.6	2144.8	3540.4	4797.8	5963.2	7518.2	7110.9	7132.1
65°	2120.0	2112.9	2174.9	2203.2	1896.8	1958.8	2447.6	3099.4	4064.6	3832.6	3634.2
67.5°	1448.7	1432.8	1549.7	1905.7	1824.2	1546.1	1432.8	1445.2	1758.7	1075.0	853.7
70°	921.0	883.8	885.5	1181.3	1484.2	1220.3	1105.2	972.3	874.9	159.4	180.6
72.5°	589.8	566.7	487.0	533.1	687.2	595.1	600.4	517.2	345.4	85.0	99.2
75°	248.0	228.5	175.3	139.9	138.1	86.8	76.2	70.8	47.8	47.8	51.4
77.5°	1.8	0.0	0.0	1.8	3.5	1.8	1.8	3.5	7.1	10.6	12.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5090.1	5090.1	5090.1	5090.1	5090.1	5090.1	5090.1	5090.1	5090.1	5090.1	5090.1
2.5°	5118.4	5075.9	5123.7	5141.4	5139.7	5141.4	5090.1	5054.7	5052.9	5008.6	4987.4
5°	5137.9	5104.2	5139.7	5116.6	5061.7	4992.7	4900.6	4820.9	4785.4	4734.1	4709.3
7.5°	5175.1	5139.7	5134.3	5042.3	4905.9	4760.7	4597.7	4452.5	4374.6	4280.7	4286.0
10°	5201.7	5160.9	5091.8	4904.1	4677.4	4445.4	4202.8	3986.7	3850.3	3724.6	3703.3
12.5°	5212.3	5152.1	4990.9	4707.5	4388.7	4085.9	3729.9	3421.7	3209.2	3044.5	3021.5
15°	5231.8	5134.3	4861.6	4470.2	4032.7	3604.1	3150.7	2729.2	2447.6	2258.1	2274.1
17.5°	5261.9	5114.9	4716.4	4204.5	3650.2	3044.5	2431.7	1948.2	1689.6	1579.8	1581.6
20°	5304.4	5091.8	4557.0	3912.3	3191.5	2412.2	1700.2	1335.4	1262.8	1259.2	1253.9
22.5°	5361.0	5068.8	4387.0	3591.7	2647.8	1689.6	1131.7	1018.4	1048.5	1106.9	1117.5
25°	5428.3	5040.5	4197.5	3230.4	2054.4	1108.7	848.3	830.6	903.2	981.2	998.9
27.5°	5532.8	5026.3	3981.4	2819.6	1441.7	795.2	694.3	704.9	770.4	835.9	851.9
30°	5709.9	5052.9	3745.8	2359.1	926.3	634.0	602.2	618.1	653.5	687.2	701.3
32.5°	5950.8	5130.8	3517.4	1856.1	660.6	550.8	543.7	552.6	566.7	586.2	591.5
35°	6232.4	5265.4	3281.8	1328.3	545.5	503.0	495.9	495.9	503.0	506.5	508.3
37.5°	6464.4	5407.1	3060.4	883.8	488.8	465.8	455.2	449.9	448.1	451.6	453.4
40°	6565.4	5465.5	2819.6	642.9	448.1	432.1	416.2	400.3	400.3	412.7	414.4
42.5°	6494.5	5400.0	2541.5	531.3	419.7	396.7	371.9	357.8	364.8	377.2	380.8
45°	6344.0	5238.8	2235.1	469.3	391.4	361.3	333.0	324.1	331.2	347.1	350.7
47.5°	6319.2	5132.6	1868.5	428.6	361.3	331.2	301.1	292.2	301.1	313.5	317.0
50°	6565.4	5224.7	1461.1	393.2	333.0	299.3	274.5	265.7	271.0	278.1	281.6
52.5°	7015.2	5566.5	1179.5	359.5	299.3	267.4	251.5	240.9	240.9	248.0	249.7
55°	7679.4	6163.3	1018.4	320.6	260.3	242.6	228.5	217.8	217.8	221.4	223.2
57.5°	8444.5	6885.9	1055.6	269.2	228.5	219.6	207.2	198.4	201.9	201.9	201.9
60°	8338.2	6832.8	1129.9	226.7	201.9	198.4	187.7	184.2	193.0	186.0	182.4
62.5°	6142.1	4719.9	591.5	186.0	173.6	170.0	162.9	170.0	182.4	162.9	155.9
65°	2982.5	2284.7	237.3	152.3	147.0	143.5	139.9	150.5	157.6	127.5	120.4
67.5°	701.3	570.3	154.1	129.3	122.2	115.1	118.7	120.4	115.1	86.8	83.2
70°	182.4	178.9	120.4	108.0	97.4	90.3	90.3	88.6	76.2	54.9	51.4
72.5°	99.2	97.4	86.8	81.5	67.3	60.2	62.0	54.9	42.5	31.9	30.1
75°	49.6	53.1	49.6	46.0	37.2	33.7	33.7	30.1	21.3	12.4	12.4
77.5°	10.6	12.4	12.4	10.6	8.9	7.1	7.1	8.9	3.5	0.0	0.0
80°	1.8	1.8	1.8	1.8	1.8	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)