

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: P638276

Luminaire Tested: GWS-SA4E-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-740-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18897.5 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

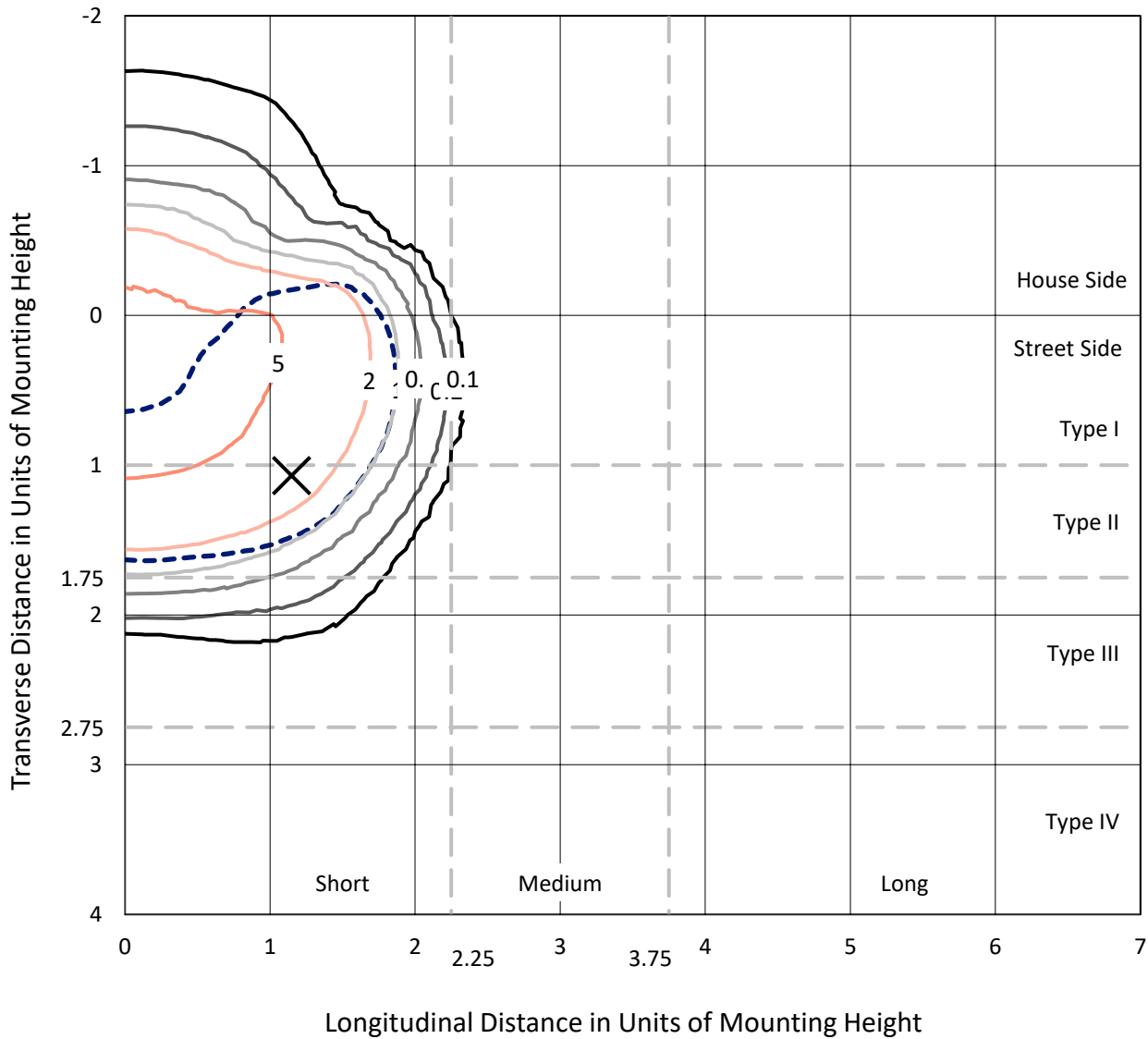
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

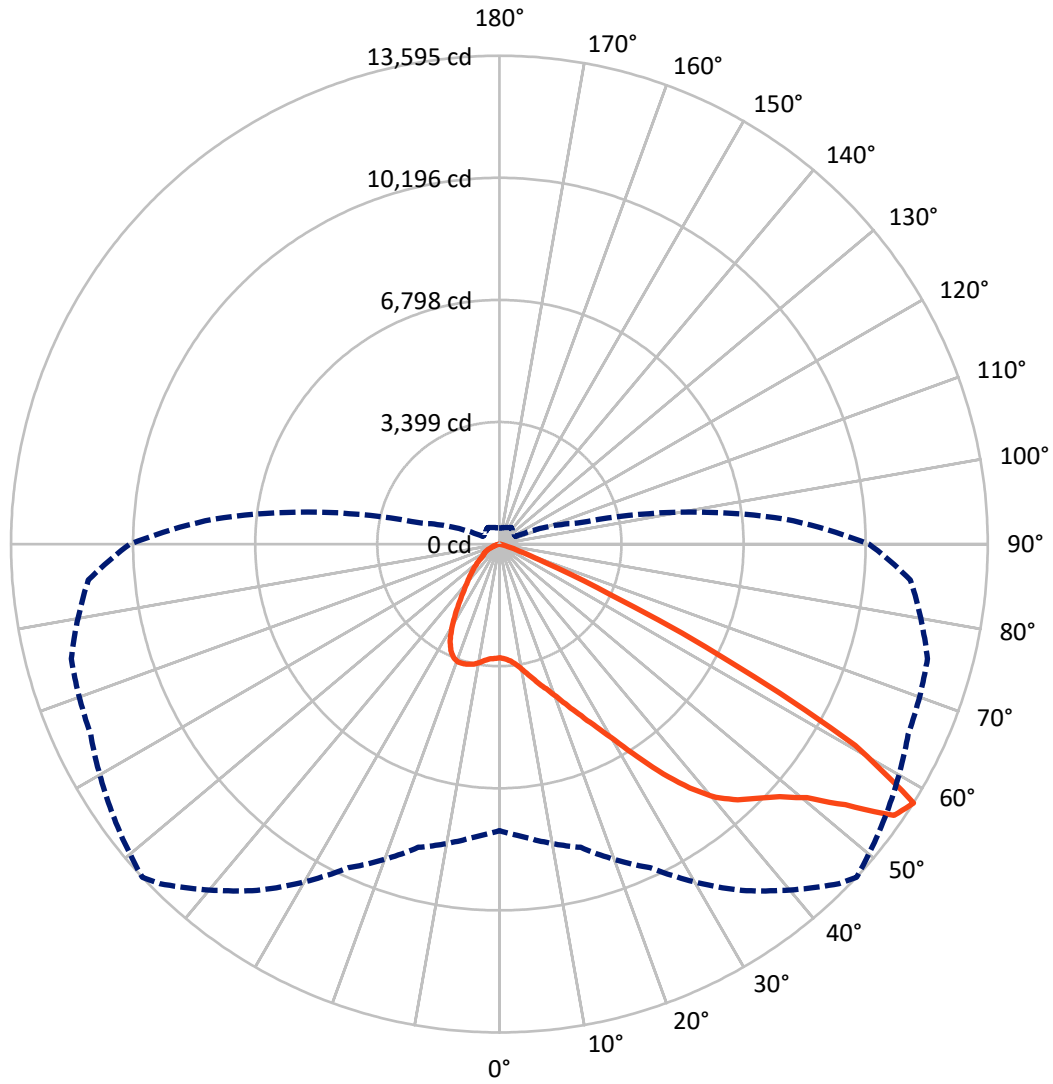
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4099.8	0.0	4099.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14797.7	0.0	14797.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	18897.5	0.0	18897.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.7	1.7
10°-20°	1062.0	5.6
20°-30°	1971.8	10.4
30°-40°	3156.5	16.7
40°-50°	4614.1	24.4
50°-60°	5694.6	30.1
60°-70°	1902.8	10.1
70°-80°	177.3	0.9
80°-90°	3.7	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°	18897.5	100.0
0°-180°	18897.5	100.0

Coefficient of Utilization



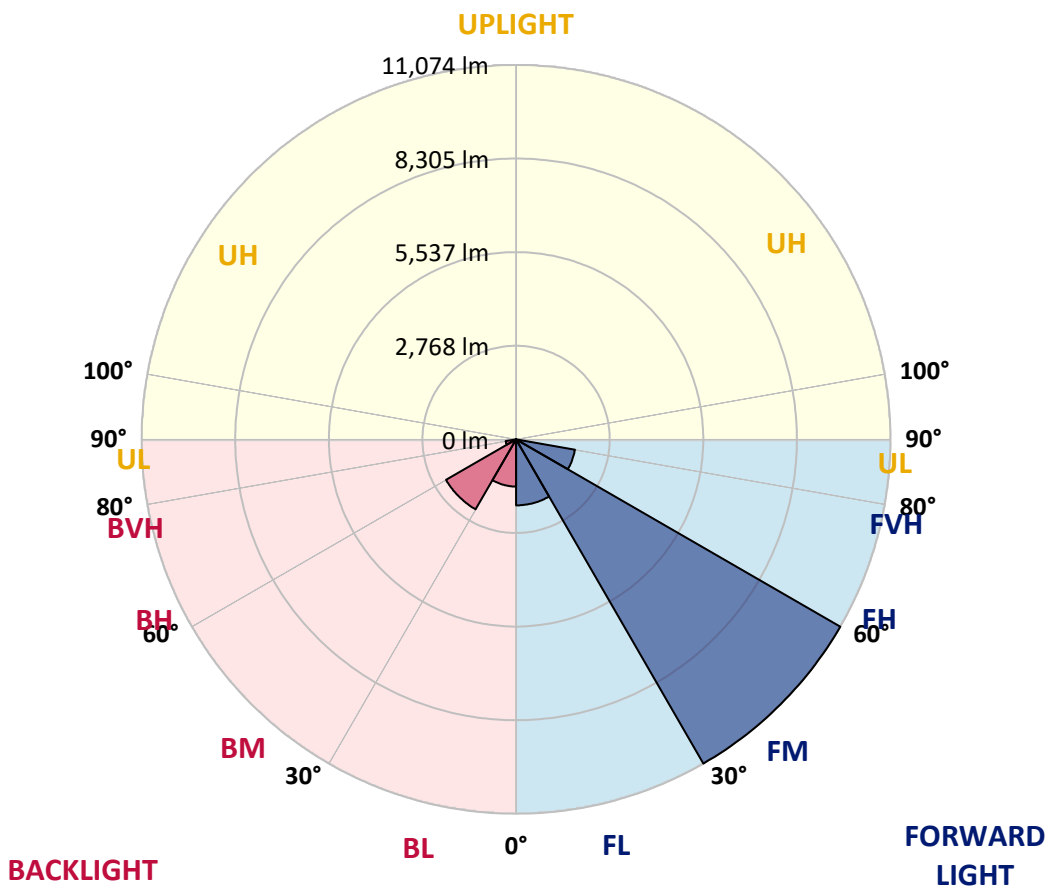
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1953.0	10.3			
FM (30°-60°)	11073.8	58.6			
FH (60°-80°)	1768.4	9.4			G1/1800
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1395.5	7.4	B3/2500		
BM (30°-60°)	2391.4	12.7	B2/2500		
BH (60°-80°)	311.7	1.6	B1/500		G1/500
BVH (80°-90°)	1.2	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°	47°	55°	65°	75°	85°
0°	3163.5	3163.5	3163.5	3163.5	3163.5	3163.5	3163.5	3163.5	3163.5	3163.5	3163.5
2.5°	3196.4	3194.2	3192.0	3205.1	3200.8	3198.6	3203.0	3203.0	3203.0	3189.8	3163.5
5°	3273.2	3273.2	3271.0	3284.1	3273.2	3266.6	3268.8	3268.8	3260.0	3235.9	3203.0
7.5°	3393.8	3389.4	3385.0	3398.2	3387.2	3385.0	3389.4	3376.3	3360.9	3321.4	3275.3
10°	3567.1	3567.1	3560.5	3573.7	3564.9	3560.5	3560.5	3551.8	3523.2	3461.8	3393.8
12.5°	3806.2	3795.3	3779.9	3769.0	3764.6	3762.4	3764.6	3751.4	3720.7	3641.7	3547.4
15°	4067.3	4058.5	4034.4	4016.9	3992.7	3988.3	4001.5	3990.5	3959.8	3852.3	3718.5
17.5°	4396.4	4407.3	4345.9	4308.6	4238.4	4234.0	4238.4	4256.0	4234.0	4095.8	3900.6
20°	4677.2	4686.0	4639.9	4613.6	4549.9	4521.4	4530.2	4558.7	4534.6	4372.2	4100.2
22.5°	4977.7	4988.7	4940.4	4885.6	4857.1	4857.1	4890.0	4929.5	4896.6	4683.8	4328.4
25°	5337.5	5346.3	5306.8	5234.4	5184.0	5247.6	5295.8	5401.1	5346.3	5056.7	4598.2
27.5°	5750.0	5752.1	5695.1	5620.5	5594.2	5712.7	5760.9	5923.3	5901.3	5475.7	4883.4
30°	6190.9	6193.1	6179.9	6129.5	6105.3	6261.1	6326.9	6561.7	6546.3	5995.7	5271.7
32.5°	6649.4	6649.4	6673.5	6669.2	6697.7	6952.2	7057.5	7325.1	7309.7	6631.9	5754.3
35°	7110.1	7112.3	7154.0	7259.3	7377.8	7715.6	7853.8	8178.5	8143.4	7393.1	6370.8
37.5°	7634.4	7612.5	7669.5	7827.5	8090.7	8481.2	8612.9	8922.2	8882.7	8171.9	7175.9
40°	8266.2	8226.8	8226.8	8411.0	8709.4	9159.1	9271.0	9424.6	9290.7	8801.5	7965.7
42.5°	8963.9	8926.6	8878.3	9040.7	9290.7	9641.8	9733.9	9692.2	9582.5	9396.1	8865.2
45°	9670.3	9613.2	9646.1	9744.9	9889.7	10056.4	10091.5	9898.4	9848.0	9900.6	9608.9
47.5°	10207.8	10168.3	10249.4	10387.7	10506.1	10530.2	10506.1	10238.5	10234.1	10420.6	10124.4
50°	10387.7	10392.0	10615.8	10918.6	11109.4	11129.2	11096.2	10789.1	10747.4	10802.3	10403.0
52.5°	10405.2	10422.8	10749.6	11326.6	11846.5	12083.5	12057.1	11725.9	11317.8	11258.6	10824.2
55°	9981.8	10084.9	10541.2	11383.6	12489.3	13246.2	13333.9	12699.9	12094.4	12044.0	11730.3
57.5°	7978.9	8189.5	8740.1	9940.1	11771.9	13366.8	13595.0	13138.7	12552.9	12337.9	11486.7
60°	4769.3	5030.4	5559.1	7031.1	8959.5	10986.6	11379.2	11442.9	11173.0	10552.2	8812.5
62.5°	2046.8	2024.9	2676.4	3804.1	5328.7	6982.9	7160.6	7437.0	7671.7	7022.4	5348.5
65°	702.0	763.4	1061.8	1715.6	2667.7	3242.4	3400.4	3648.3	3981.7	3286.3	1959.1
67.5°	434.4	460.7	612.1	1013.5	1439.1	1417.2	1347.0	1307.5	1272.4	870.9	537.5
70°	315.9	337.8	430.0	697.6	967.5	680.1	590.1	478.2	530.9	489.2	381.7
72.5°	212.8	230.3	296.2	423.4	495.8	331.3	307.1	348.8	421.2	401.5	311.5
75°	127.2	138.2	168.9	206.2	201.8	171.1	173.3	245.7	322.5	300.6	221.6
77.5°	87.8	92.1	111.9	133.8	98.7	52.7	48.3	68.0	109.7	109.7	74.6
80°	21.9	28.5	28.5	17.6	15.4	13.2	13.2	19.7	30.7	21.9	11.0
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	4.4	4.4
85°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	4.4
87.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4
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°	3163.5	3163.5	3163.5	3163.5	3163.5	3163.5	3163.5	3163.5	3163.5	3163.5	3163.5
2.5°	3178.8	3152.5	3170.0	3165.7	3178.8	3183.2	3163.5	3159.1	3161.3	3134.9	3126.2
5°	3209.5	3178.8	3187.6	3178.8	3194.2	3207.3	3200.8	3209.5	3220.5	3200.8	3192.0
7.5°	3275.3	3244.6	3242.4	3229.3	3251.2	3260.0	3257.8	3281.9	3303.9	3290.7	3277.5
10°	3389.4	3347.7	3343.4	3332.4	3339.0	3345.5	3321.4	3325.8	3345.5	3330.2	3323.6
12.5°	3529.8	3479.4	3468.4	3442.1	3442.1	3409.2	3356.5	3345.5	3360.9	3349.9	3339.0
15°	3681.2	3613.2	3595.6	3549.6	3505.7	3444.3	3389.4	3376.3	3387.2	3374.1	3365.3
17.5°	3850.1	3773.3	3716.3	3635.1	3538.6	3466.2	3404.8	3376.3	3358.7	3332.4	3330.2
20°	4016.9	3915.9	3819.4	3690.0	3562.7	3453.0	3352.1	3277.5	3213.9	3174.4	3159.1
22.5°	4209.9	4060.7	3905.0	3722.9	3540.8	3374.1	3196.4	3069.1	2959.4	2922.1	2904.6
25°	4416.1	4223.1	3990.5	3753.6	3466.2	3198.6	2957.2	2768.6	2623.8	2575.5	2555.8
27.5°	4644.3	4378.8	4078.3	3747.0	3312.6	2948.5	2628.2	2393.4	2250.8	2207.0	2222.3
30°	4933.9	4580.7	4188.0	3679.0	3082.3	2597.5	2222.3	2024.9	1917.4	1875.7	1877.9
32.5°	5320.0	4870.2	4348.1	3534.2	2786.1	2198.2	1869.1	1724.3	1651.9	1597.1	1592.7
35°	5872.8	5311.2	4497.3	3301.7	2426.3	1842.8	1603.7	1489.6	1388.7	1325.1	1336.0
37.5°	6535.3	5866.2	4578.5	2988.0	2022.7	1566.4	1404.0	1287.8	1173.7	1079.4	1090.3
40°	7320.7	6592.4	4571.9	2575.5	1654.1	1377.7	1237.3	1101.3	958.7	873.1	881.9
42.5°	8196.0	7279.0	4429.3	2139.0	1371.1	1224.1	1077.2	906.0	767.8	715.2	717.4
45°	8955.1	7836.3	4179.2	1687.0	1153.9	1075.0	910.4	734.9	673.5	636.2	634.0
47.5°	9516.7	8244.3	3821.6	1327.2	978.4	938.9	748.1	658.1	609.9	579.2	574.8
50°	9830.4	8386.9	3426.7	1039.9	827.1	796.3	669.1	596.7	563.8	544.1	539.7
52.5°	10251.6	8558.0	3143.7	820.5	693.2	651.6	616.5	555.0	533.1	517.7	511.2
55°	10918.6	8889.3	2898.0	651.6	577.0	568.2	581.4	530.9	517.7	493.6	484.8
57.5°	10291.1	7985.4	2250.8	504.6	487.0	519.9	561.6	506.8	473.9	451.9	443.1
60°	7241.7	5309.0	1132.0	405.9	434.4	487.0	528.7	458.5	425.6	430.0	425.6
62.5°	3992.7	2656.7	509.0	340.0	377.3	430.0	451.9	397.1	375.1	412.4	419.0
65°	1305.3	903.8	294.0	263.3	298.4	351.0	390.5	377.3	372.9	416.8	430.0
67.5°	401.5	298.4	199.6	188.7	206.2	258.9	329.1	408.0	438.8	451.9	458.5
70°	300.6	234.7	171.1	160.1	168.9	197.4	278.6	340.0	320.3	322.5	318.1
72.5°	241.3	186.5	147.0	140.4	140.4	136.0	147.0	184.3	208.4	219.4	219.4
75°	168.9	131.6	111.9	103.1	81.2	65.8	59.2	59.2	52.7	50.5	48.3
77.5°	57.0	48.3	43.9	35.1	24.1	19.7	17.6	15.4	11.0	6.6	4.4
80°	8.8	6.6	4.4	4.4	4.4	2.2	2.2	2.2	0.0	0.0	0.0
82.5°	4.4	4.4	4.4	4.4	4.4	2.2	2.2	0.0	0.0	0.0	0.0
85°	4.4	4.4	4.4	4.4	4.4	2.2	2.2	0.0	0.0	0.0	0.0
87.5°	4.4	4.4	4.4	4.4	2.2	2.2	2.2	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)