

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: P638555

Luminaire Tested: GWS-SA4F-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-722-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

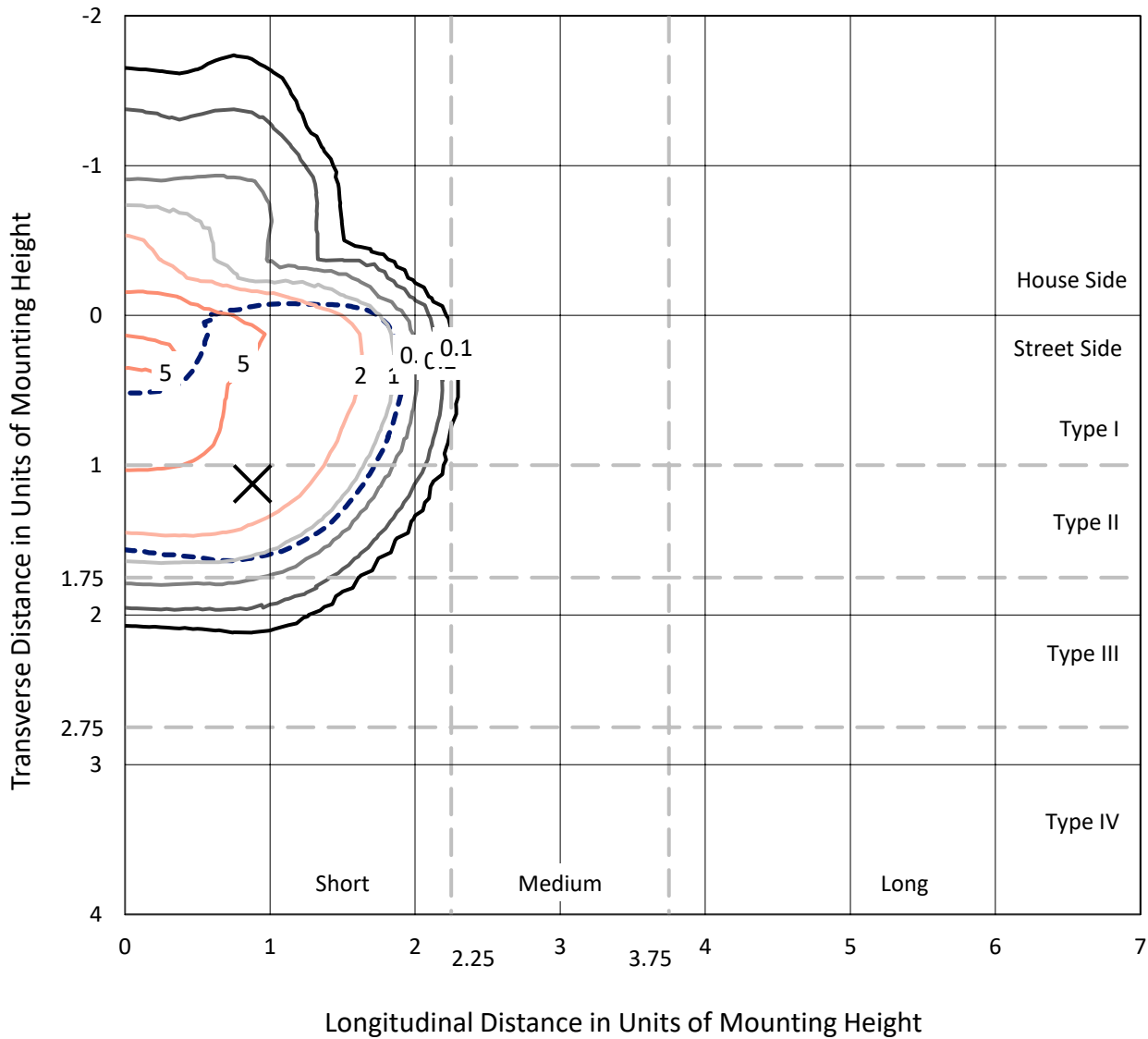
Lumens per Lamp: N/A  
Luminaire Lumens: 15718.9 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

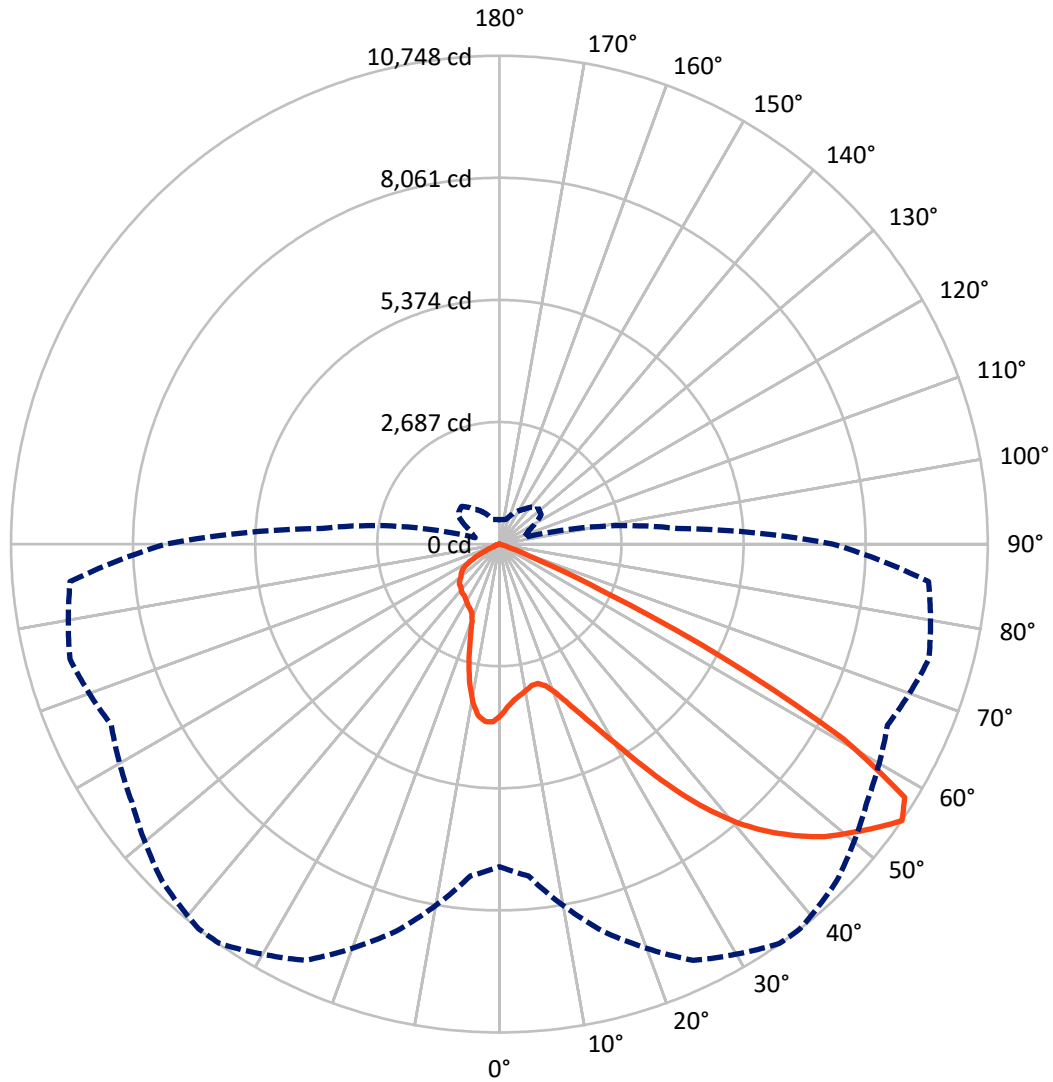
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3062.5	0.0	3062.5
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	12656.4	0.0	12656.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	15718.9	0.0	15718.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.5	2.2
10°-20°	938.3	6.0
20°-30°	1610.2	10.2
30°-40°	2670.6	17.0
40°-50°	3925.9	25.0
50°-60°	4587.6	29.2
60°-70°	1555.0	9.9
70°-80°	79.5	0.5
80°-90°	3.1	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°	15718.9	100.0
0°-180°	15718.9	100.0

**Coefficient of Utilization**



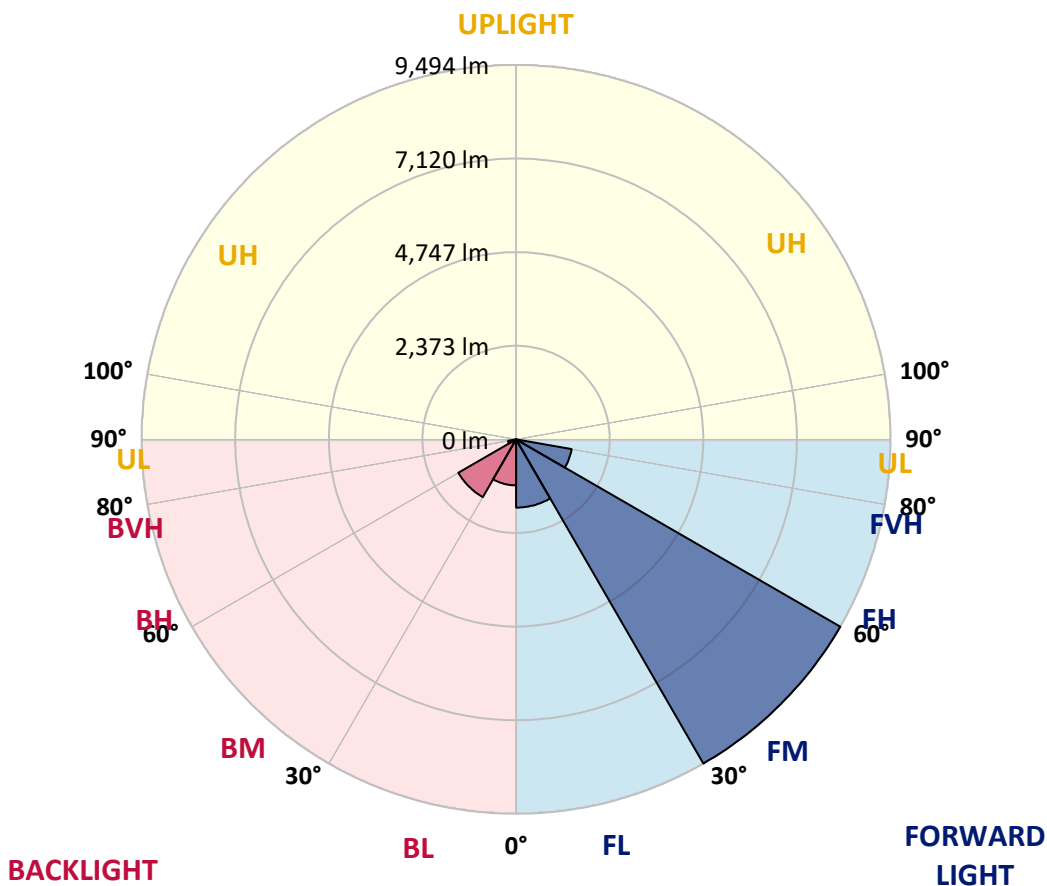
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1730.3	11.0			
FM (30°-60°)	9493.8	60.4			
FH (60°-80°)	1430.7	9.1			G1/1800
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	1166.8	7.4	B3/2500		
BM (30°-60°)	1690.4	10.8	B2/2500		
BH (60°-80°)	203.9	1.3	B1/500		G1/500
BVH (80°-90°)	1.5	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°	38°	45°	55°	65°	75°	85°
0°	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5
2.5°	3510.8	3503.6	3518.0	3546.7	3573.7	3582.7	3609.6	3647.3	3670.7	3726.4	3771.3
5°	3352.7	3349.1	3363.5	3388.6	3424.5	3437.1	3478.4	3541.3	3604.2	3701.2	3796.5
7.5°	3208.9	3207.1	3228.7	3284.4	3336.5	3352.7	3403.0	3480.2	3564.7	3713.8	3854.0
10°	3020.3	3022.1	3063.4	3142.5	3237.7	3270.0	3350.9	3462.3	3571.9	3764.1	3958.2
12.5°	2959.2	2962.8	2984.3	3045.4	3149.6	3191.0	3304.2	3473.1	3613.2	3836.0	4092.9
15°	3108.3	3108.3	3090.4	3097.5	3144.3	3182.0	3300.6	3509.0	3683.3	3922.2	4225.9
17.5°	3397.6	3386.8	3341.9	3280.8	3264.6	3277.2	3372.4	3586.2	3782.1	4022.8	4376.8
20°	3789.3	3792.9	3704.8	3577.3	3474.9	3473.1	3530.5	3722.8	3924.0	4143.2	4540.3
22.5°	4263.6	4249.2	4132.4	3958.2	3780.3	3765.9	3789.3	3931.2	4128.9	4333.7	4741.5
25°	4813.4	4806.2	4640.9	4407.3	4172.0	4137.8	4137.8	4278.0	4421.7	4605.0	4982.3
27.5°	5388.4	5388.4	5228.4	4958.9	4646.3	4585.2	4576.2	4741.5	4836.8	4872.7	5185.3
30°	5979.5	5972.3	5814.2	5537.5	5203.3	5140.4	5115.3	5237.4	5305.7	5197.9	5438.7
32.5°	6579.6	6592.2	6432.2	6175.3	5877.1	5835.7	5758.5	5758.5	5814.2	5663.3	5837.5
35°	7224.6	7221.0	7095.2	6921.0	6665.8	6619.1	6491.5	6292.1	6376.5	6310.1	6389.1
37.5°	7794.2	7821.1	7760.0	7630.7	7424.0	7377.3	7167.1	6806.0	6870.6	6974.9	7044.9
40°	8372.7	8394.3	8455.4	8414.0	8153.5	8067.3	7693.5	7100.6	7172.5	7530.0	7731.3
42.5°	8940.5	8951.2	9075.2	9143.5	8794.9	8644.0	8092.4	7280.3	7355.8	7964.8	8317.0
45°	9301.6	9325.0	9529.8	9738.2	9360.9	9154.3	8439.2	7510.3	7542.6	8266.7	8750.0
47.5°	9287.2	9341.1	9725.6	10104.7	9847.8	9625.0	8856.0	7878.6	7824.7	8550.6	9035.7
50°	8998.0	9062.6	9614.2	10216.1	10198.2	9991.5	9319.6	8412.2	8243.3	8802.1	9071.6
52.5°	8397.9	8584.7	9418.4	10230.5	10480.3	10376.0	9892.7	9130.9	8809.3	9163.3	9129.1
55°	7100.6	7330.6	8823.7	10108.3	10735.4	10748.0	10494.6	9880.1	9423.8	9784.9	9483.1
57.5°	5390.2	5573.4	6791.6	8998.0	10313.2	10519.8	10728.2	10275.4	9802.9	10208.9	9565.7
60°	3248.5	3460.5	4252.8	6602.9	8329.6	8681.7	9499.2	9411.2	8841.6	9015.9	7844.5
62.5°	1317.0	1428.4	1963.8	3638.4	5242.8	5571.6	6355.0	6487.9	6347.8	6169.9	4757.7
65°	481.5	526.4	787.0	1503.9	2411.2	2531.6	2944.8	3180.2	3374.2	2873.0	1769.8
67.5°	298.3	327.0	512.1	772.6	876.8	815.7	830.1	990.0	945.1	583.9	316.2
70°	221.0	244.4	400.7	535.4	354.0	273.1	185.1	197.6	177.9	156.3	154.5
72.5°	152.7	174.3	300.1	316.2	136.6	97.0	68.3	95.2	107.8	106.0	109.6
75°	100.6	116.8	188.7	124.0	34.1	27.0	23.4	50.3	64.7	64.7	66.5
77.5°	59.3	68.3	66.5	25.2	7.2	7.2	5.4	9.0	14.4	16.2	19.8
80°	7.2	5.4	3.6	3.6	3.6	3.6	3.6	3.6	5.4	5.4	5.4
82.5°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6	5.4	5.4
85°	0.0	0.0	1.8	1.8	3.6	3.6	3.6	3.6	3.6	5.4	5.4
87.5°	0.0	0.0	1.8	1.8	3.6	3.6	3.6	3.6	3.6	5.4	5.4
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°	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5
2.5°	3805.4	3792.9	3845.0	3882.7	3913.2	3927.6	3907.9	3906.1	3906.1	3866.5	3855.8
5°	3850.4	3855.8	3929.4	3961.8	3967.2	3949.2	3904.3	3873.7	3855.8	3814.4	3791.1
7.5°	3936.6	3954.6	4024.6	4019.3	3970.7	3888.1	3769.5	3677.9	3618.6	3553.9	3514.4
10°	4060.6	4094.7	4137.8	4062.4	3907.9	3697.6	3453.3	3279.0	3174.8	3101.1	3056.2
12.5°	4211.5	4245.6	4231.3	4053.4	3731.8	3356.3	3041.8	2790.3	2669.9	2603.4	2556.7
15°	4364.2	4385.8	4292.4	3945.6	3420.9	2916.1	2565.7	2316.0	2168.6	2114.7	2075.2
17.5°	4520.5	4515.2	4303.1	3733.6	3005.9	2420.2	2075.2	1904.5	1863.2	1854.2	1850.6
20°	4684.0	4635.5	4260.0	3429.9	2506.4	1929.7	1733.8	1744.6	1820.1	1856.0	1863.2
22.5°	4870.9	4748.7	4152.2	3018.5	1996.2	1608.1	1627.8	1733.8	1836.2	1884.8	1891.9
25°	5070.3	4852.9	3972.5	2490.2	1573.9	1478.7	1595.5	1717.7	1827.3	1886.6	1893.7
27.5°	5201.5	4878.1	3677.9	1958.4	1351.1	1428.4	1552.4	1669.2	1782.3	1847.0	1856.0
30°	5343.4	4867.3	3277.2	1509.2	1275.7	1385.3	1493.1	1599.1	1703.3	1775.2	1782.3
32.5°	5551.9	4860.1	2788.5	1225.4	1245.1	1351.1	1430.2	1518.2	1590.1	1631.4	1626.0
35°	5825.0	4851.1	2218.9	1105.0	1227.2	1324.2	1387.1	1428.4	1349.3	1324.2	1329.6
37.5°	6175.3	4872.7	1739.2	1054.7	1221.8	1317.0	1370.9	1252.3	1130.1	1083.4	1076.2
40°	6563.4	4928.4	1326.0	1034.9	1239.7	1335.0	1309.8	1114.0	963.0	871.4	851.6
42.5°	6953.3	4989.5	1049.3	1027.7	1270.3	1385.3	1209.2	1013.3	787.0	734.9	727.7
45°	7242.6	4978.7	907.3	1015.1	1297.2	1414.0	1182.2	869.6	702.5	679.2	681.0
47.5°	7388.1	4860.1	830.1	986.4	1308.0	1385.3	1115.8	810.3	645.0	670.2	691.7
50°	7310.8	4552.9	758.2	930.7	1284.7	1347.5	1009.8	765.4	616.3	720.5	769.0
52.5°	7217.4	4175.6	679.2	844.5	1229.0	1295.4	968.4	752.8	598.3	695.3	731.3
55°	7341.4	3936.6	549.8	711.5	1119.4	1173.3	936.1	751.0	557.0	540.8	535.4
57.5°	7167.1	3460.5	393.5	512.1	858.8	928.9	912.7	738.5	494.1	492.3	499.5
60°	5539.3	2111.1	269.5	325.2	526.4	592.9	828.3	706.1	425.8	391.7	393.5
62.5°	3147.8	898.4	185.1	201.2	269.5	319.8	632.4	641.4	393.5	373.7	393.5
65°	1096.0	321.6	143.7	134.8	149.1	170.7	362.9	495.9	357.5	323.4	327.0
67.5°	226.4	159.9	127.6	111.4	111.4	111.4	185.1	309.0	294.7	256.9	260.5
70°	143.7	136.6	111.4	95.2	91.6	84.4	106.0	170.7	203.0	186.9	188.7
72.5°	106.0	104.2	88.0	77.3	68.3	61.1	66.5	84.4	104.2	107.8	109.6
75°	64.7	66.5	57.5	48.5	43.1	37.7	39.5	39.5	39.5	35.9	39.5
77.5°	19.8	21.6	18.0	14.4	12.6	12.6	12.6	10.8	9.0	5.4	5.4
80°	5.4	5.4	5.4	5.4	5.4	3.6	3.6	1.8	1.8	0.0	0.0
82.5°	5.4	5.4	5.4	5.4	3.6	3.6	1.8	1.8	0.0	0.0	0.0
85°	5.4	5.4	5.4	5.4	3.6	3.6	1.8	1.8	0.0	0.0	0.0
87.5°	5.4	5.4	5.4	5.4	3.6	3.6	1.8	1.8	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)