

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: P635750

Luminaire Tested: GWS-SA3E-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635750
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-SA3E-735-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13603.8 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

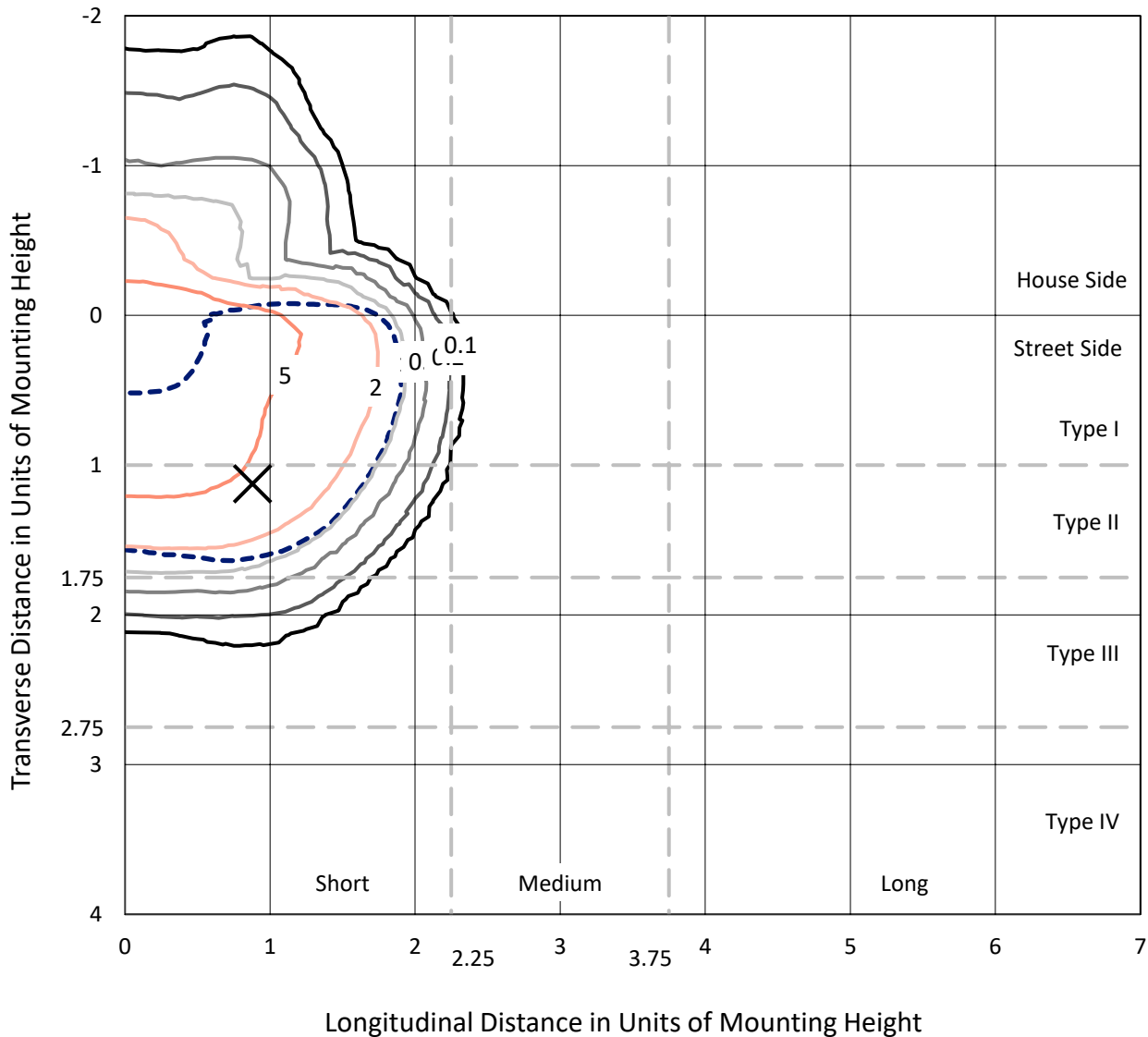
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

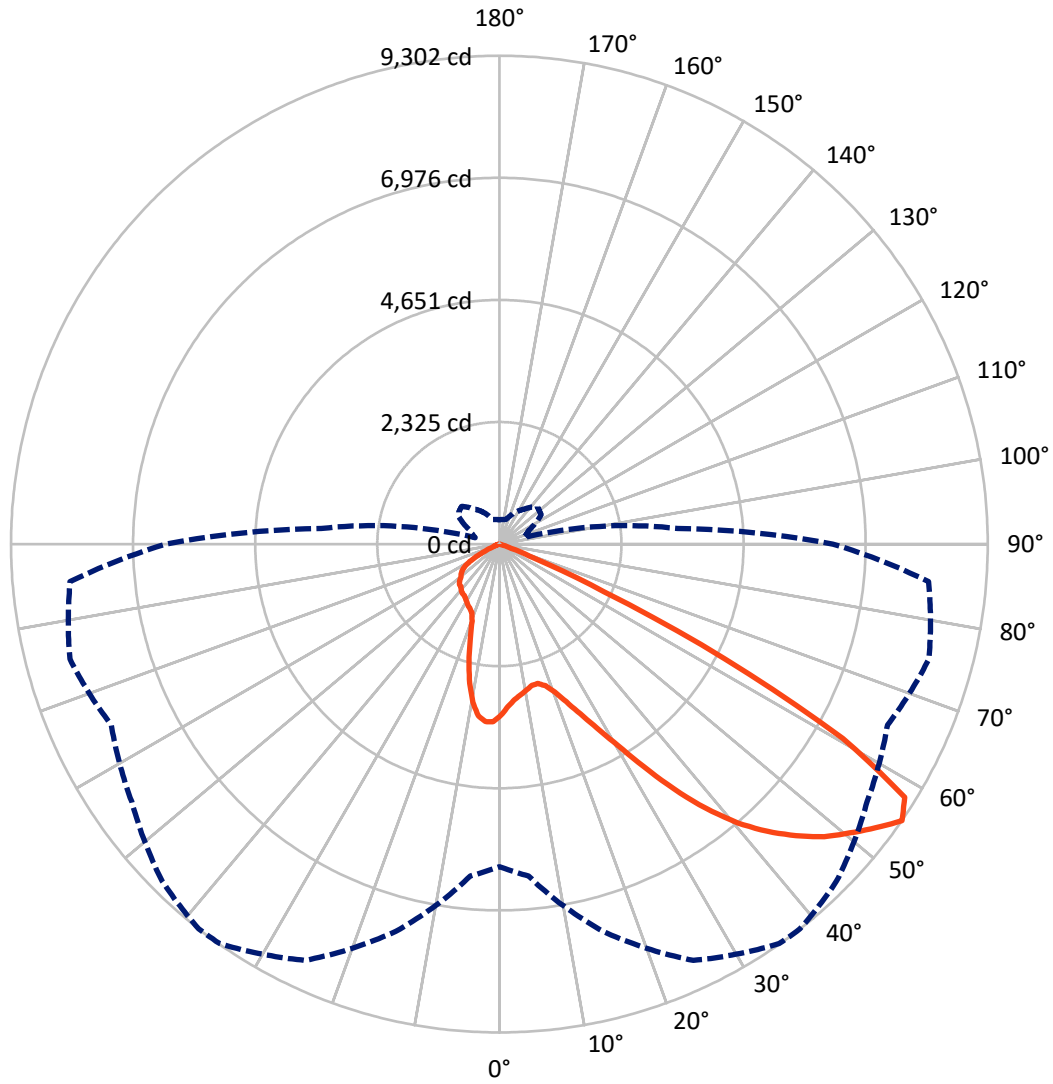
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 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
House Side	Lumens	2650.5	0.0	2650.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10953.4	0.0	10953.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	13603.8	0.0	13603.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.6	2.2
10°-20°	812.1	6.0
20°-30°	1393.5	10.2
30°-40°	2311.3	17.0
40°-50°	3397.7	25.0
50°-60°	3970.3	29.2
60°-70°	1345.8	9.9
70°-80°	68.8	0.5
80°-90°	2.7	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°	13603.8	100.0
0°-180°	13603.8	100.0

Coefficient of Utilization



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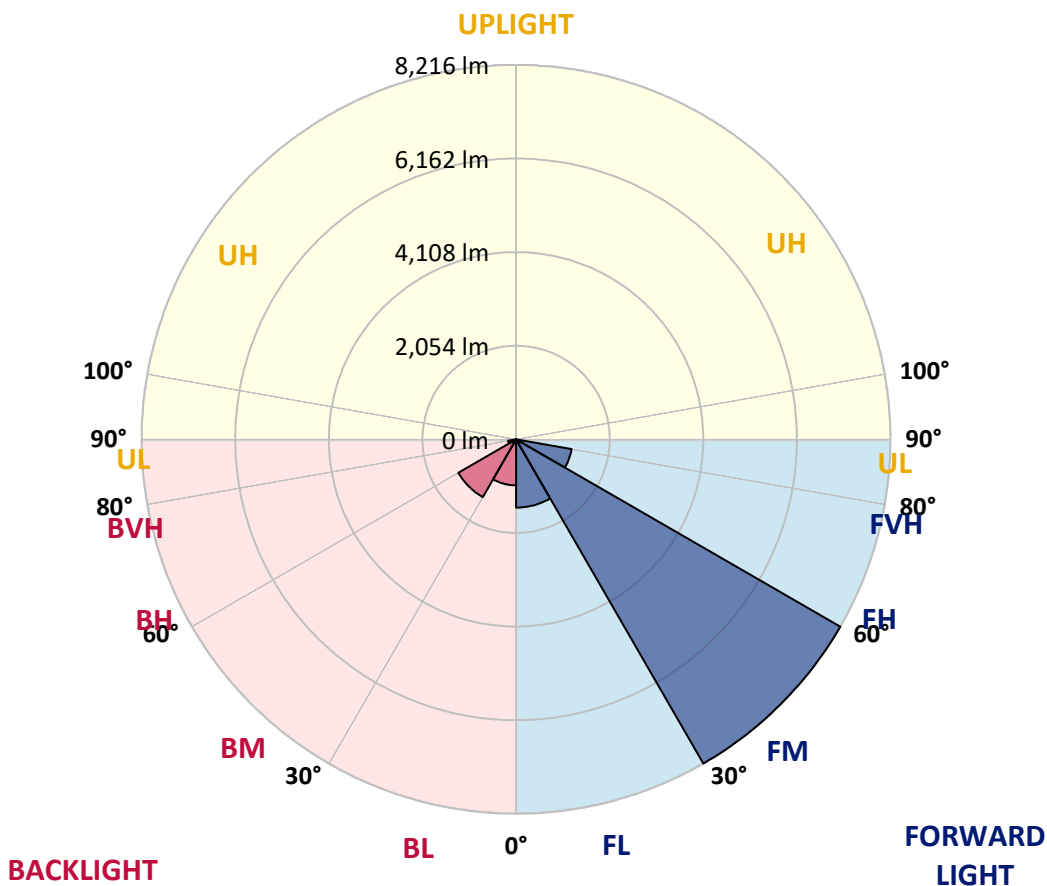
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1497.4	11.0			
FM (30°-60°)	8216.3	60.4			
FH (60°-80°)	1238.2	9.1			G1/1800
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	1009.8	7.4	B3/2500		
BM (30°-60°)	1462.9	10.8	B2/2500		
BH (60°-80°)	176.4	1.3	B1/500		G1/500
BVH (80°-90°)	1.3	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°	3262.3	3262.3	3262.3	3262.3	3262.3	3262.3	3262.3	3262.3	3262.3	3262.3	3262.3
2.5°	3038.4	3032.2	3044.6	3069.5	3092.8	3100.6	3123.9	3156.6	3176.8	3225.0	3263.9
5°	2901.5	2898.4	2910.9	2932.6	2963.7	2974.6	3010.4	3064.8	3119.2	3203.2	3285.6
7.5°	2777.1	2775.6	2794.3	2842.5	2887.6	2901.5	2945.1	3011.9	3085.0	3214.1	3335.4
10°	2613.9	2615.4	2651.2	2719.6	2802.0	2830.0	2900.0	2996.4	3091.3	3257.6	3425.6
12.5°	2561.0	2564.1	2582.8	2635.6	2725.8	2761.6	2859.6	3005.7	3127.0	3319.8	3542.2
15°	2690.1	2690.1	2674.5	2680.7	2721.2	2753.8	2856.5	3036.8	3187.7	3394.5	3657.3
17.5°	2940.4	2931.1	2892.2	2839.3	2825.4	2836.2	2918.7	3103.7	3273.2	3481.5	3787.9
20°	3279.4	3282.5	3206.3	3095.9	3007.3	3005.7	3055.5	3221.9	3396.0	3585.7	3929.4
22.5°	3689.9	3677.5	3576.4	3425.6	3271.6	3259.2	3279.4	3402.2	3573.3	3750.6	4103.5
25°	4165.7	4159.5	4016.4	3814.3	3610.6	3581.1	3581.1	3702.3	3826.7	3985.3	4311.9
27.5°	4663.3	4663.3	4524.9	4291.7	4021.1	3968.2	3960.5	4103.5	4185.9	4217.0	4487.6
30°	5174.9	5168.7	5031.8	4792.4	4503.1	4448.7	4427.0	4532.7	4591.8	4498.5	4706.8
32.5°	5694.2	5705.1	5566.7	5344.4	5086.3	5050.5	4983.6	4983.6	5031.8	4901.2	5052.0
35°	6252.5	6249.4	6140.5	5989.7	5768.9	5728.5	5618.1	5445.5	5518.5	5461.0	5529.4
37.5°	6745.4	6768.7	6715.9	6603.9	6425.1	6384.6	6202.7	5890.2	5946.1	6036.3	6097.0
40°	7246.1	7264.7	7317.6	7281.9	7056.4	6981.7	6658.3	6145.2	6207.4	6516.8	6691.0
42.5°	7737.5	7746.8	7854.1	7913.2	7611.5	7480.9	7003.5	6300.7	6366.0	6893.1	7197.9
45°	8050.0	8070.2	8247.5	8427.9	8101.3	7922.5	7303.6	6499.7	6527.7	7154.3	7572.6
47.5°	8037.6	8084.2	8417.0	8745.1	8522.7	8329.9	7664.4	6818.5	6771.8	7400.0	7819.9
50°	7787.2	7843.2	8320.6	8841.5	8825.9	8647.1	8065.6	7280.3	7134.1	7617.7	7851.0
52.5°	7267.9	7429.6	8151.1	8853.9	9070.1	8979.9	8561.6	7902.3	7623.9	7930.3	7900.7
55°	6145.2	6344.2	7636.4	8748.2	9290.9	9301.7	9082.5	8550.7	8155.7	8468.3	8207.1
57.5°	4664.9	4823.5	5877.7	7787.2	8925.4	9104.3	9284.6	8892.8	8483.8	8835.3	8278.6
60°	2811.4	2994.8	3680.6	5714.5	7208.8	7513.5	8221.0	8144.9	7651.9	7802.8	6788.9
62.5°	1139.8	1236.2	1699.6	3148.8	4537.4	4821.9	5499.9	5614.9	5493.7	5339.7	4117.5
65°	416.7	455.6	681.1	1301.5	2086.7	2190.9	2548.6	2752.3	2920.2	2486.4	1531.6
67.5°	258.1	283.0	443.2	668.6	758.8	705.9	718.4	856.8	817.9	505.4	273.7
70°	191.3	211.5	346.8	463.4	306.3	236.4	160.2	171.0	153.9	135.3	133.7
72.5°	132.2	150.8	259.7	273.7	118.2	84.0	59.1	82.4	93.3	91.7	94.9
75°	87.1	101.1	163.3	107.3	29.5	23.3	20.2	43.5	56.0	56.0	57.5
77.5°	51.3	59.1	57.5	21.8	6.2	6.2	4.7	7.8	12.4	14.0	17.1
80°	6.2	4.7	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7	4.7
82.5°	1.6	1.6	1.6	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7
85°	0.0	0.0	1.6	1.6	3.1	3.1	3.1	3.1	3.1	4.7	4.7
87.5°	0.0	0.0	1.6	1.6	3.1	3.1	3.1	3.1	3.1	4.7	4.7
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°	3262.3	3262.3	3262.3	3262.3	3262.3	3262.3	3262.3	3262.3	3262.3	3262.3	3262.3
2.5°	3293.4	3282.5	3327.6	3360.3	3386.7	3399.1	3382.0	3380.5	3380.5	3346.3	3336.9
5°	3332.3	3336.9	3400.7	3428.7	3433.3	3417.8	3378.9	3352.5	3336.9	3301.2	3281.0
7.5°	3406.9	3422.5	3483.1	3478.4	3436.5	3364.9	3262.3	3183.0	3131.7	3075.7	3041.5
10°	3514.2	3543.7	3581.1	3515.8	3382.0	3200.1	2988.6	2837.8	2747.6	2683.9	2645.0
12.5°	3644.8	3674.4	3661.9	3508.0	3229.6	2904.7	2632.5	2414.8	2310.7	2253.1	2212.7
15°	3777.0	3795.6	3714.8	3414.7	2960.6	2523.7	2220.5	2004.3	1876.8	1830.2	1796.0
17.5°	3912.3	3907.6	3724.1	3231.2	2601.4	2094.5	1796.0	1648.3	1612.5	1604.7	1601.6
20°	4053.8	4011.8	3686.8	2968.4	2169.2	1670.0	1500.5	1509.9	1575.2	1606.3	1612.5
22.5°	4215.5	4109.7	3593.5	2612.3	1727.6	1391.7	1408.8	1500.5	1589.2	1631.1	1637.4
25°	4388.1	4199.9	3438.0	2155.2	1362.1	1279.7	1380.8	1486.5	1581.4	1632.7	1638.9
27.5°	4501.6	4221.7	3183.0	1694.9	1169.3	1236.2	1343.5	1444.6	1542.5	1598.5	1606.3
30°	4624.4	4212.4	2836.2	1306.2	1104.0	1198.9	1292.2	1383.9	1474.1	1536.3	1542.5
32.5°	4804.8	4206.2	2413.3	1060.5	1077.6	1169.3	1237.7	1313.9	1376.1	1411.9	1407.2
35°	5041.2	4198.4	1920.4	956.3	1062.0	1146.0	1200.4	1236.2	1167.8	1146.0	1150.7
37.5°	5344.4	4217.0	1505.2	912.8	1057.4	1139.8	1186.4	1083.8	978.1	937.6	931.4
40°	5680.3	4265.2	1147.6	895.7	1072.9	1155.3	1133.6	964.1	833.5	754.2	737.0
42.5°	6017.7	4318.1	908.1	889.4	1099.4	1198.9	1046.5	877.0	681.1	636.0	629.8
45°	6268.0	4308.8	785.3	878.5	1122.7	1223.7	1023.2	752.6	608.0	587.8	589.3
47.5°	6394.0	4206.2	718.4	853.7	1132.0	1198.9	965.6	701.3	558.2	580.0	598.7
50°	6327.1	3940.3	656.2	805.5	1111.8	1166.2	873.9	662.4	533.3	623.5	665.5
52.5°	6246.3	3613.7	587.8	730.8	1063.6	1121.1	838.1	651.5	517.8	601.8	632.9
55°	6353.5	3406.9	475.8	615.8	968.7	1015.4	810.1	650.0	482.0	468.0	463.4
57.5°	6202.7	2994.8	340.5	443.2	743.3	803.9	789.9	639.1	427.6	426.1	432.3
60°	4793.9	1827.1	233.2	281.4	455.6	513.1	716.8	611.1	368.5	339.0	340.5
62.5°	2724.3	777.5	160.2	174.2	233.2	276.8	547.3	555.1	340.5	323.4	340.5
65°	948.5	278.3	124.4	116.6	129.1	147.7	314.1	429.2	309.4	279.9	283.0
67.5°	195.9	138.4	110.4	96.4	96.4	96.4	160.2	267.5	255.0	222.4	225.5
70°	124.4	118.2	96.4	82.4	79.3	73.1	91.7	147.7	175.7	161.7	163.3
72.5°	91.7	90.2	76.2	66.9	59.1	52.9	57.5	73.1	90.2	93.3	94.9
75°	56.0	57.5	49.8	42.0	37.3	32.7	34.2	34.2	34.2	31.1	34.2
77.5°	17.1	18.7	15.5	12.4	10.9	10.9	10.9	9.3	7.8	4.7	4.7
80°	4.7	4.7	4.7	4.7	4.7	3.1	3.1	1.6	1.6	0.0	0.0
82.5°	4.7	4.7	4.7	4.7	3.1	3.1	1.6	1.6	0.0	0.0	0.0
85°	4.7	4.7	4.7	4.7	3.1	3.1	1.6	1.6	0.0	0.0	0.0
87.5°	4.7	4.7	4.7	4.7	3.1	3.1	1.6	1.6	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)