

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: P637707

Luminaire Tested: GWS-SA4D-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19030.7 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

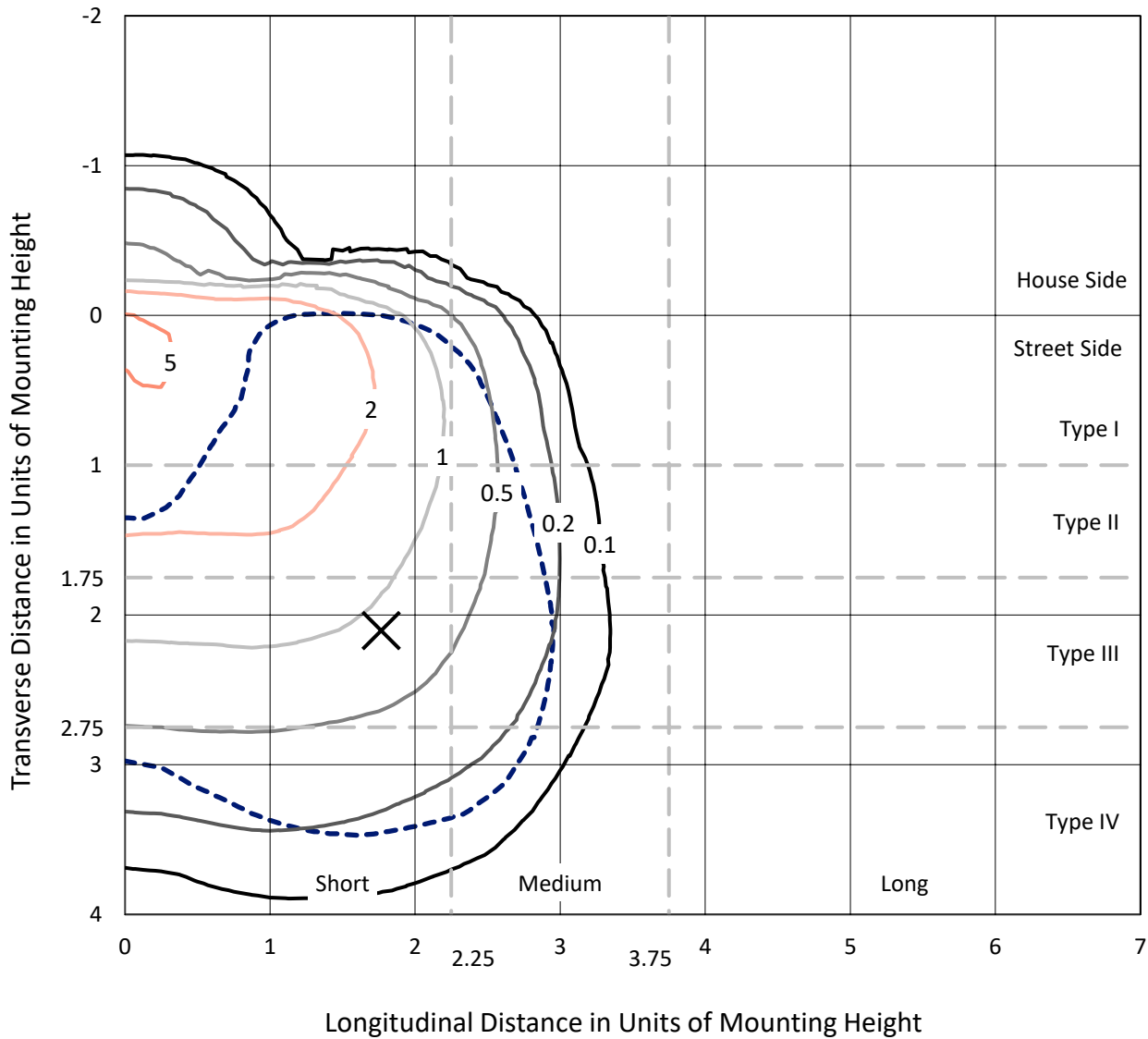
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

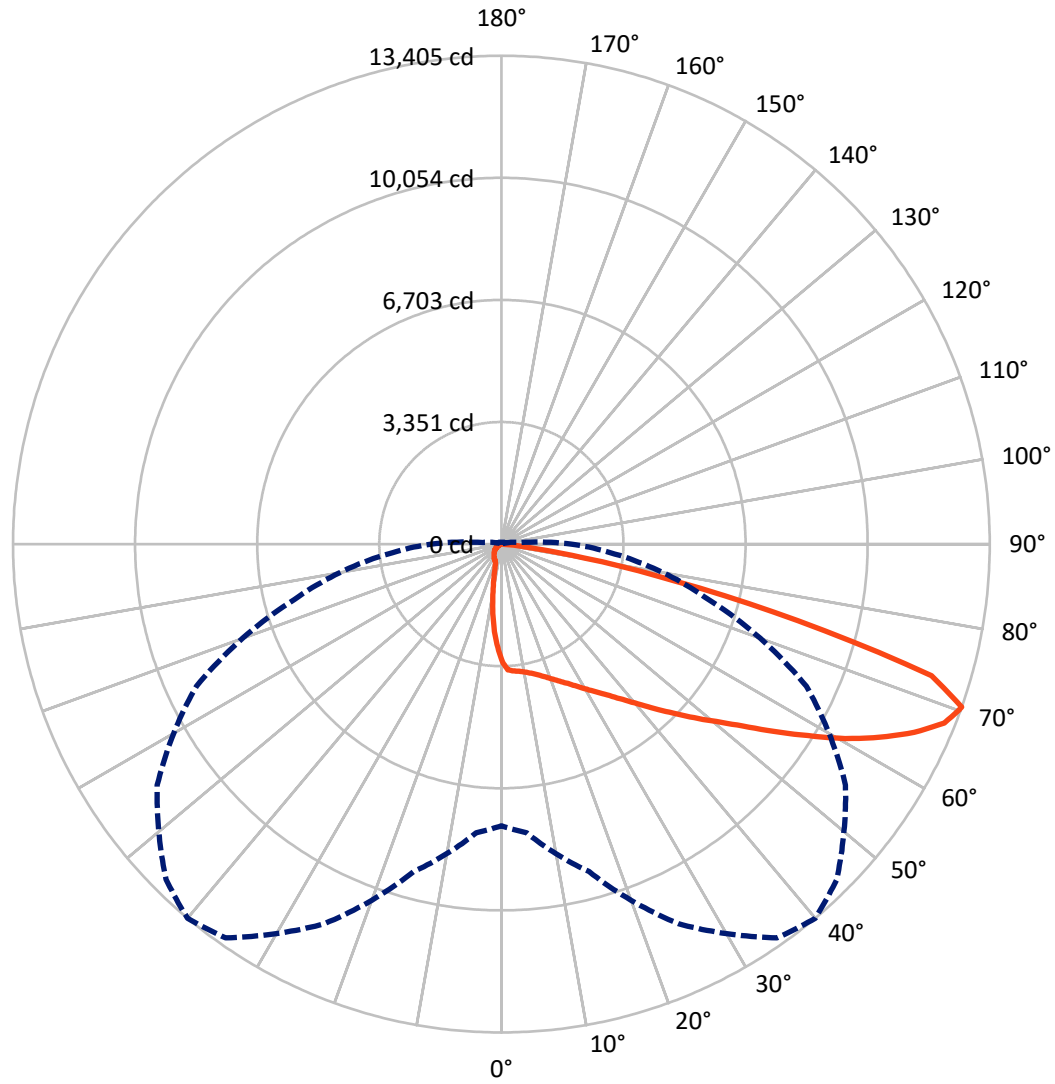
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1556.2	0.0	1556.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	17474.5	0.0	17474.5
	% Fixture	91.8	0.0	91.8
Total	Lumens	19030.7	0.0	19030.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.9	1.4
10°-20°	692.2	3.6
20°-30°	1158.6	6.1
30°-40°	1819.7	9.6
40°-50°	2878.3	15.1
50°-60°	4198.7	22.1
60°-70°	5204.9	27.4
70°-80°	2633.4	13.8
80°-90°	171.9	0.9
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°	19030.7	100.0
0°-180°	19030.7	100.0

Coefficient of Utilization



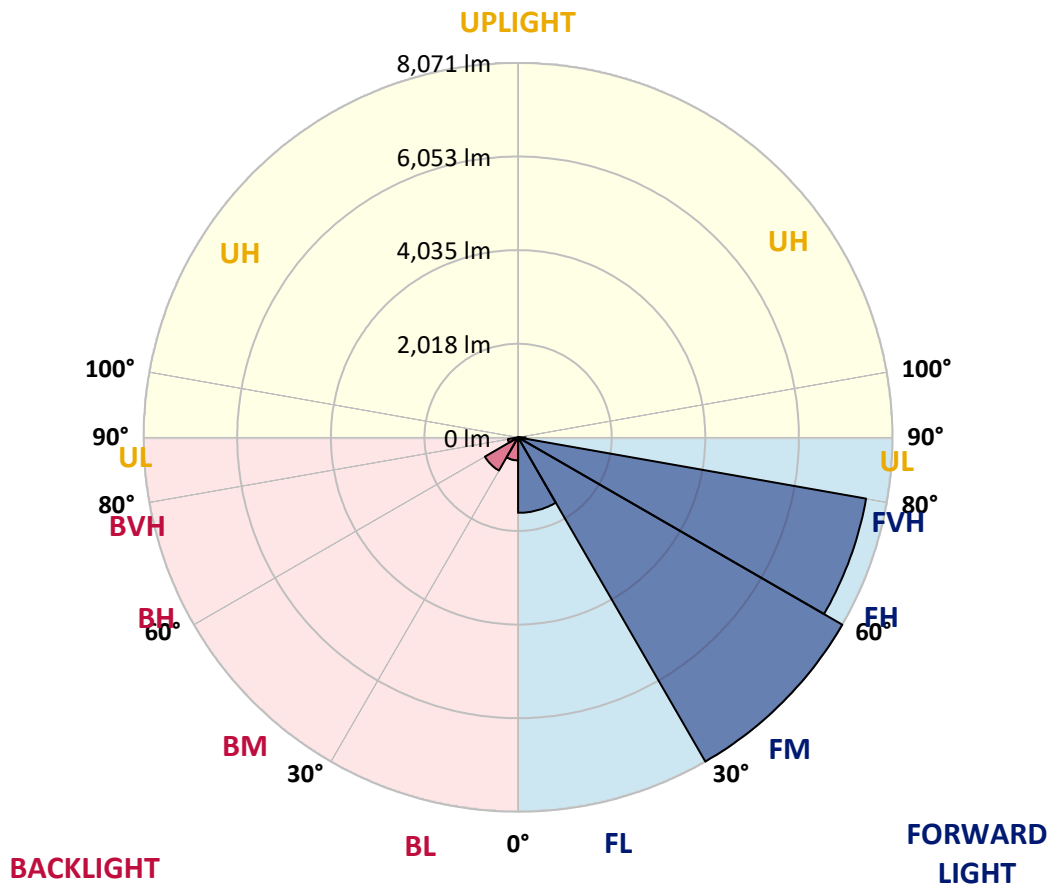
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1626.8	8.5			
FM (30°-60°)	8070.7	42.4			
FH (60°-80°)	7616.4	40.0			G4/12000
FVH (80°-90°)	160.6	0.8			G2/225
BL (0°-30°)	497.0	2.6	B1/500		
BM (30°-60°)	826.0	4.3	B1/1000		
BH (60°-80°)	221.9	1.2	B1/500		G1/500
BVH (80°-90°)	11.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3229.3	3229.3	3229.3	3229.3	3229.3	3229.3	3229.3	3229.3	3229.3	3229.3	3229.3
2.5°	3471.7	3483.8	3482.1	3487.3	3475.2	3456.1	3452.6	3426.7	3379.9	3321.1	3255.3
5°	3542.7	3556.5	3546.1	3541.0	3518.4	3497.7	3492.5	3464.8	3411.1	3331.4	3217.2
7.5°	3603.3	3606.8	3599.8	3587.7	3554.8	3527.1	3508.1	3470.0	3405.9	3326.2	3194.7
10°	3613.7	3611.9	3615.4	3617.1	3596.4	3572.1	3556.5	3504.6	3423.2	3338.4	3196.4
12.5°	3601.6	3601.6	3624.1	3650.0	3650.0	3637.9	3622.3	3575.6	3480.4	3379.9	3231.0
15°	3617.1	3622.3	3665.6	3714.1	3729.7	3717.6	3710.6	3662.2	3563.5	3452.6	3293.3
17.5°	3672.6	3677.7	3747.0	3819.7	3838.8	3824.9	3811.1	3762.6	3657.0	3535.8	3364.3
20°	3753.9	3767.8	3856.1	3949.6	3966.9	3949.6	3921.9	3854.4	3748.7	3625.8	3431.9
22.5°	3902.8	3911.5	4006.7	4105.4	4114.1	4086.4	4044.8	3951.3	3840.5	3721.0	3508.1
25°	4100.2	4112.4	4207.6	4302.8	4280.3	4238.8	4181.6	4076.0	3949.6	3833.6	3605.0
27.5°	4335.7	4349.6	4443.1	4526.2	4467.3	4418.8	4354.8	4223.2	4095.0	3989.4	3729.7
30°	4590.3	4602.4	4685.5	4759.9	4682.0	4624.9	4548.7	4413.6	4283.8	4204.1	3906.3
32.5°	4836.1	4834.4	4914.0	4974.7	4895.0	4850.0	4780.7	4643.9	4540.0	4505.4	4169.5
35°	5064.7	5064.7	5130.5	5191.1	5134.0	5109.7	5045.6	4936.6	4877.7	4919.2	4521.0
37.5°	5295.0	5282.9	5345.2	5412.7	5407.5	5409.3	5372.9	5321.0	5324.4	5471.6	5004.1
40°	5485.5	5480.3	5553.0	5641.3	5710.5	5766.0	5743.4	5762.5	5871.6	6146.9	5622.2
42.5°	5637.8	5649.9	5743.4	5883.7	6058.6	6171.1	6186.7	6264.6	6545.1	6971.1	6320.0
45°	5812.7	5814.4	5944.3	6159.0	6437.8	6616.1	6678.5	6879.3	7277.6	7826.5	7085.4
47.5°	6027.4	6006.6	6152.1	6453.4	6856.8	7120.0	7230.8	7481.9	8098.3	8661.1	7708.7
50°	6264.6	6226.5	6391.0	6801.4	7326.1	7655.0	7880.1	8247.2	8912.1	9346.7	8172.8
52.5°	6539.9	6503.6	6690.6	7201.4	7888.8	8288.8	8577.9	8948.5	9609.9	9869.7	8449.8
55°	6889.7	6853.3	7050.7	7681.0	8553.7	9073.2	9376.2	9687.8	10259.2	10255.8	8650.7
57.5°	7277.6	7227.4	7500.9	8287.0	9383.1	9923.3	10231.5	10383.9	10752.7	10555.3	8785.7
60°	7722.6	7677.6	8056.8	9009.1	10340.6	10841.0	11035.0	10972.6	11157.9	10732.0	8739.0
62.5°	8124.3	8103.5	8574.5	9774.4	11253.1	11675.6	11729.3	11457.5	11455.7	10735.4	8423.8
65°	8541.6	8581.4	9280.9	10655.8	12170.8	12454.8	12363.0	11938.8	11575.2	10311.2	7492.3
67.5°	8697.4	8813.4	9746.7	11452.3	12894.6	13116.3	12955.2	12179.5	11078.3	8884.4	5705.4
70°	7734.7	7952.9	9306.9	11497.3	13194.2	13405.4	13019.3	11531.9	9235.9	5885.4	3125.4
72.5°	5882.0	6136.5	7755.5	9414.3	11866.1	12347.5	11687.7	9395.2	5953.0	2578.2	1049.3
75°	3291.6	3566.9	5776.3	7088.8	7966.7	8406.5	8164.1	6027.4	2637.1	673.6	313.4
77.5°	1113.4	1205.1	2687.3	4385.9	5258.6	4863.8	4117.6	2993.8	969.7	256.3	166.2
80°	659.7	694.3	1000.8	2183.4	2767.0	2294.3	1811.2	1106.4	493.5	136.8	116.0
82.5°	197.4	233.8	552.4	810.4	1083.9	675.3	571.4	632.0	256.3	74.5	97.0
85°	0.0	0.0	117.7	251.1	284.0	110.8	110.8	358.4	46.8	31.2	71.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.7	5.2	6.9	15.6
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°	3229.3	3229.3	3229.3	3229.3	3229.3	3229.3	3229.3	3229.3	3229.3	3229.3	3229.3
2.5°	3208.5	3147.9	3076.9	3009.4	2945.3	2862.2	2822.4	2773.9	2732.3	2709.8	2721.9
5°	3144.4	3049.2	2903.8	2756.6	2607.7	2467.4	2341.0	2256.2	2180.0	2140.2	2148.8
7.5°	3089.0	2960.9	2734.1	2493.4	2254.4	2013.8	1818.1	1665.7	1548.0	1499.5	1490.8
10°	3064.8	2903.8	2583.4	2237.1	1870.0	1546.2	1269.2	1101.2	981.8	922.9	933.3
12.5°	3076.9	2874.3	2455.3	1986.1	1509.9	1132.4	867.5	709.9	625.1	590.4	581.8
15°	3111.5	2867.4	2341.0	1729.8	1165.3	791.3	599.1	535.0	517.7	514.3	514.3
17.5°	3151.4	2869.1	2223.3	1470.1	884.8	587.0	512.5	500.4	495.2	491.8	493.5
20°	3191.2	2869.1	2088.2	1206.9	664.9	507.3	488.3	479.6	474.4	472.7	472.7
22.5°	3239.7	2869.1	1937.6	962.7	533.3	481.4	465.8	460.6	455.4	453.7	451.9
25°	3298.5	2870.9	1771.3	753.2	484.8	458.9	446.7	441.5	436.3	432.9	432.9
27.5°	3383.4	2884.7	1587.8	587.0	457.1	438.1	427.7	422.5	417.3	412.1	412.1
30°	3506.3	2919.3	1381.8	484.8	431.1	415.6	405.2	401.7	396.5	391.3	389.6
32.5°	3689.9	2979.9	1168.8	434.6	406.9	391.3	379.2	375.7	370.5	365.4	363.6
35°	3946.1	3090.8	961.0	403.4	375.7	360.2	353.2	351.5	344.6	339.4	339.4
37.5°	4321.9	3270.8	761.9	372.3	349.8	337.6	329.0	325.5	318.6	313.4	311.7
40°	4780.7	3504.6	592.2	348.0	325.5	313.4	304.7	299.6	290.9	284.0	280.5
42.5°	5366.0	3790.3	467.5	322.1	303.0	290.9	284.0	273.6	261.5	251.1	249.3
45°	5975.5	4084.7	386.1	297.8	282.2	271.8	263.2	249.3	232.0	219.9	216.4
47.5°	6443.0	4268.2	337.6	271.8	259.7	251.1	240.7	223.4	202.6	188.7	185.3
50°	6777.2	4295.9	301.3	247.6	240.7	232.0	216.4	195.7	173.2	159.3	155.8
52.5°	6941.7	4171.2	271.8	225.1	219.9	211.2	192.2	169.7	145.4	131.6	128.1
55°	7016.1	3935.7	244.1	206.1	199.1	188.7	168.0	143.7	119.5	107.4	103.9
57.5°	6986.7	3587.7	219.9	187.0	178.3	166.2	143.7	117.7	98.7	86.6	84.8
60°	6768.5	3099.4	195.7	168.0	157.6	143.7	121.2	97.0	79.6	71.0	69.3
62.5°	6297.5	2493.4	171.4	145.4	138.5	124.7	103.9	79.6	65.8	60.6	58.9
65°	5333.1	1762.7	147.2	122.9	119.5	105.6	86.6	65.8	57.1	53.7	51.9
67.5°	3833.6	1071.8	124.7	105.6	102.2	90.0	72.7	57.1	51.9	50.2	50.2
70°	1927.2	507.3	98.7	86.6	86.6	74.5	62.3	51.9	50.2	48.5	48.5
72.5°	654.5	216.4	74.5	67.5	71.0	64.1	53.7	48.5	48.5	48.5	48.5
75°	223.4	114.3	51.9	48.5	51.9	51.9	46.8	46.8	48.5	48.5	48.5
77.5°	145.4	76.2	36.4	32.9	39.8	39.8	39.8	43.3	46.8	46.8	46.8
80°	119.5	41.6	24.2	22.5	29.4	29.4	32.9	39.8	43.3	43.3	43.3
82.5°	102.2	26.0	13.9	15.6	20.8	22.5	27.7	32.9	38.1	39.8	39.8
85°	69.3	13.9	10.4	12.1	13.9	17.3	22.5	27.7	31.2	34.6	34.6
87.5°	19.0	5.2	6.9	8.7	8.7	12.1	17.3	20.8	24.2	26.0	26.0
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)