

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: P637806

Luminaire Tested: GWS-SA4D-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-750-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16235.6 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

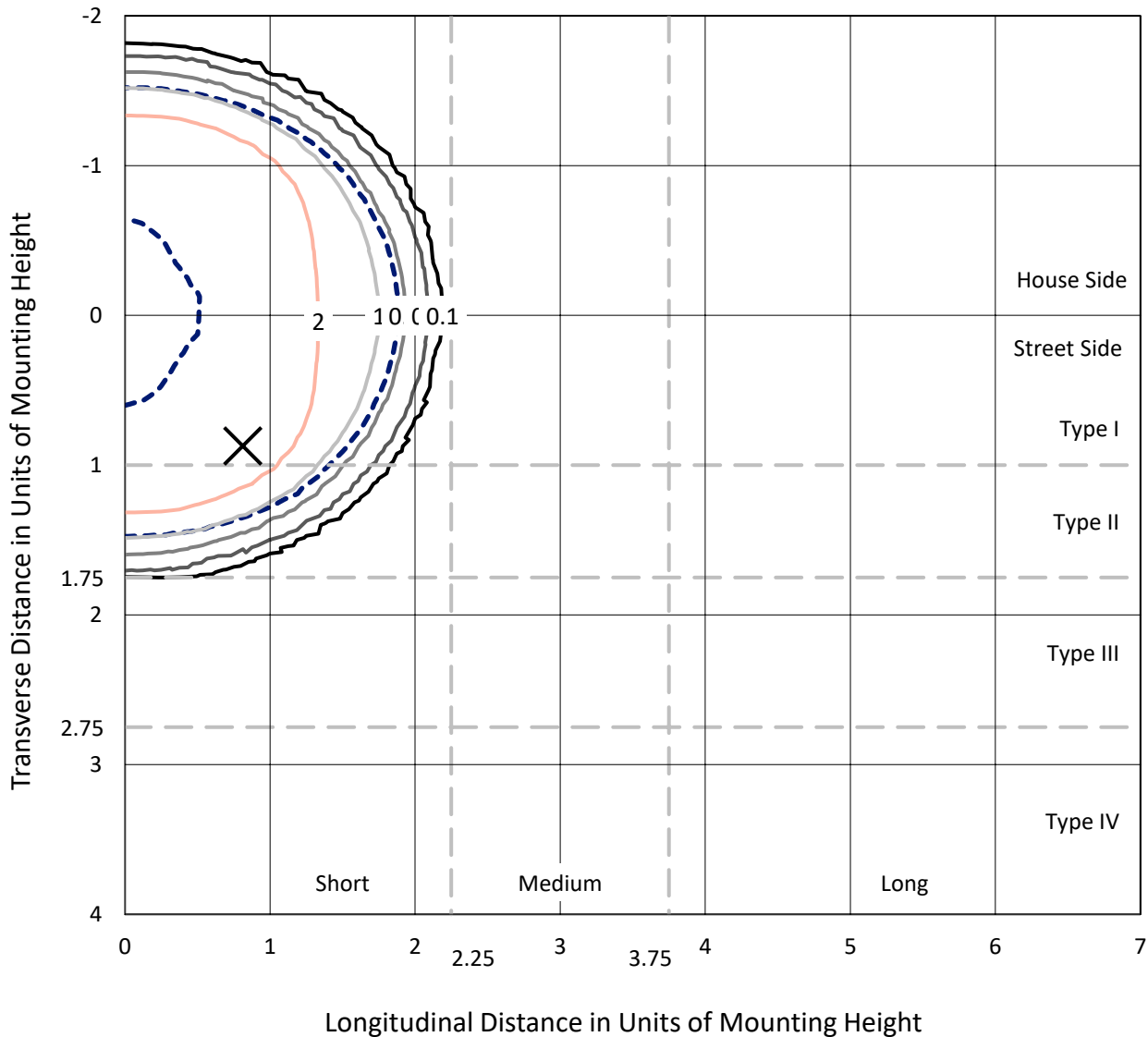
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

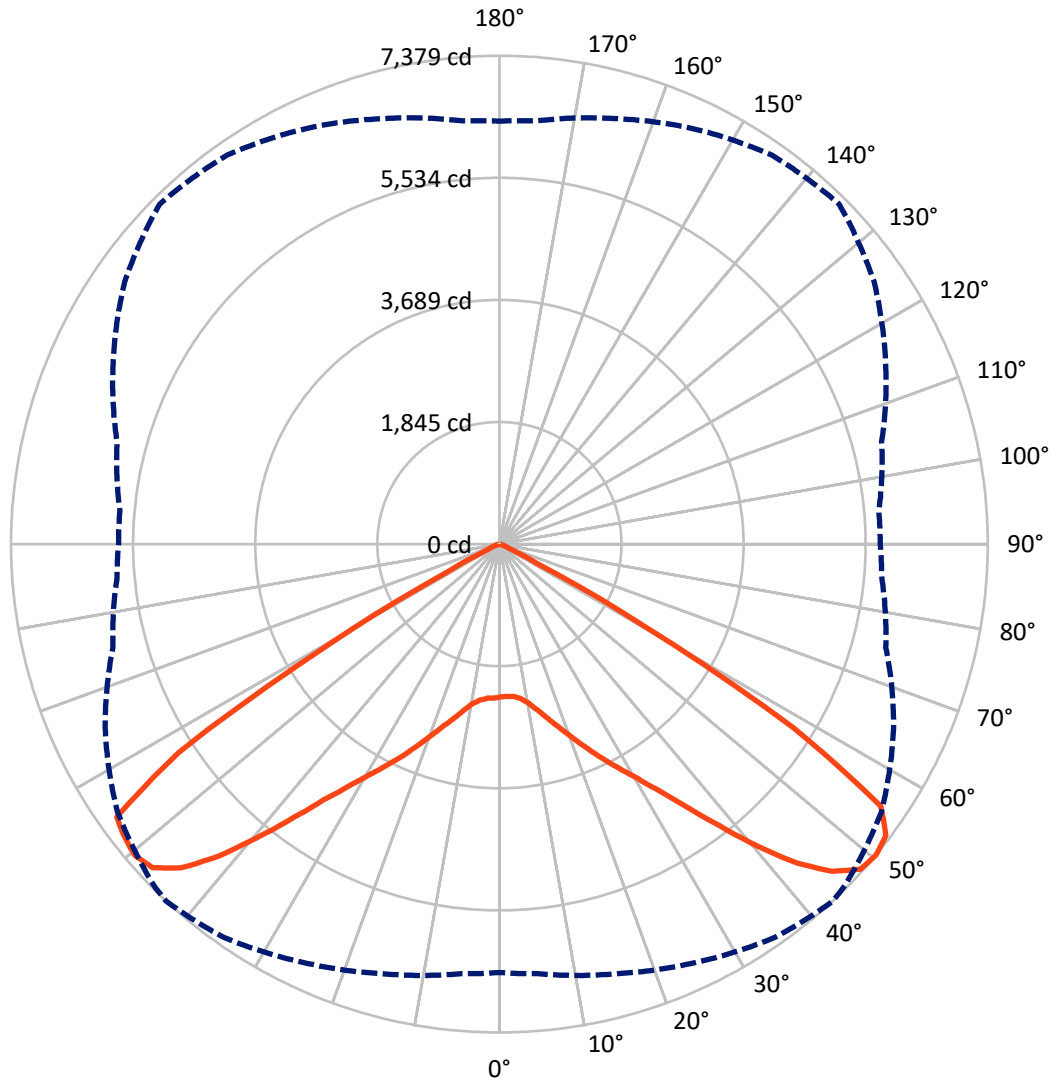
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8117.6	0.0	8117.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8118.0	0.0	8118.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16235.6	0.0	16235.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	1.4
10°-20°	782.6	4.8
20°-30°	1583.3	9.8
30°-40°	2937.5	18.1
40°-50°	4876.2	30.0
50°-60°	4976.3	30.7
60°-70°	816.1	5.0
70°-80°	35.7	0.2
80°-90°	0.5	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°	16235.6	100.0
0°-180°	16235.6	100.0

Coefficient of Utilization



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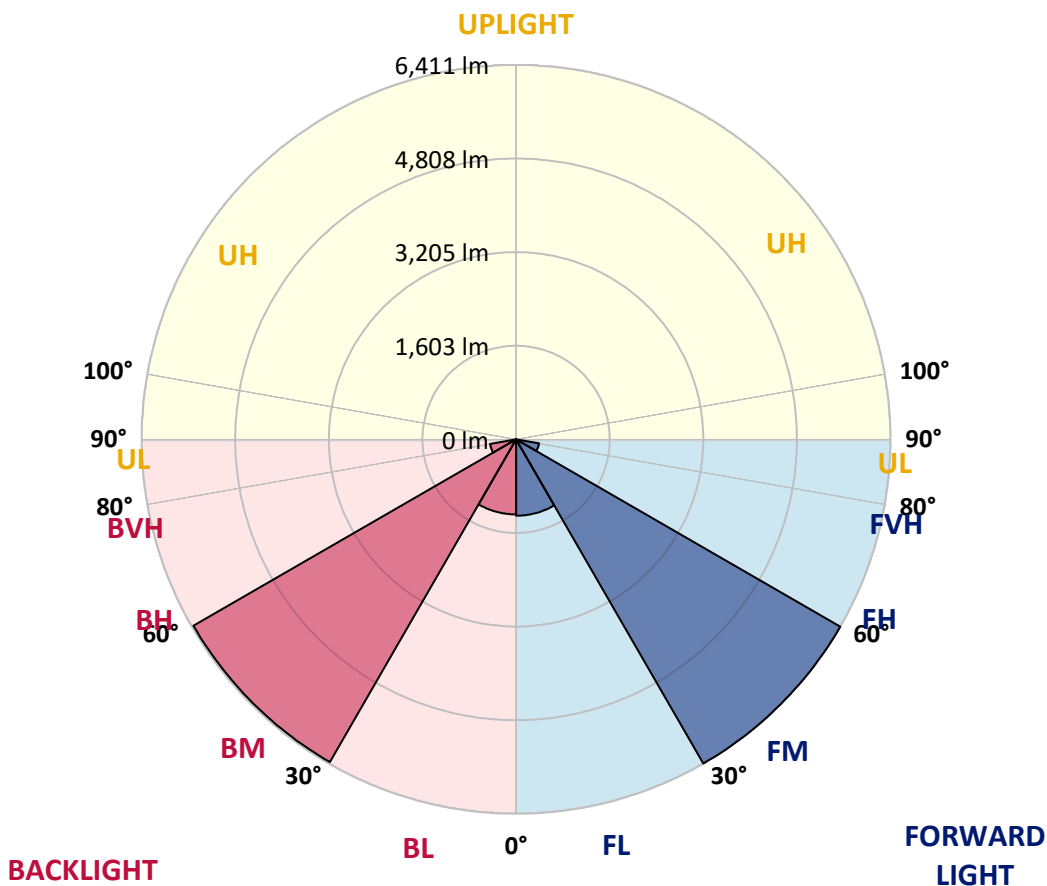
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1308.0	8.1			
FM (30°-60°)	6410.6	39.5			
FH (60°-80°)	399.2	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1285.3	7.9	B3/2500		
BM (30°-60°)	6379.4	39.3	B4/8500		
BH (60°-80°)	452.6	2.8	B1/500		G0/660
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2309.3	2309.3	2309.3	2309.3	2309.3	2309.3	2309.3	2309.3	2309.3	2309.3	2309.3
2.5°	2266.2	2271.5	2278.7	2285.9	2294.9	2303.9	2309.3	2325.4	2321.8	2336.2	2336.2
5°	2241.0	2246.4	2255.4	2271.5	2291.3	2311.1	2325.4	2357.7	2375.7	2404.4	2415.2
7.5°	2253.6	2260.8	2271.5	2296.7	2327.2	2357.7	2373.9	2426.0	2461.9	2515.8	2546.3
10°	2294.9	2302.1	2320.0	2363.1	2402.6	2445.7	2465.5	2531.9	2589.4	2663.0	2706.1
12.5°	2341.6	2350.6	2386.5	2451.1	2519.4	2576.8	2603.8	2677.4	2736.6	2819.2	2887.5
15°	2390.1	2404.4	2460.1	2555.3	2652.2	2729.4	2758.2	2837.2	2896.4	2984.4	3061.7
17.5°	2503.2	2519.4	2582.2	2684.6	2817.4	2907.2	2932.4	3015.0	3059.9	3119.1	3199.9
20°	2645.1	2675.6	2752.8	2876.7	3022.1	3108.3	3126.3	3207.1	3203.5	3228.7	3298.7
22.5°	2821.0	2842.6	2927.0	3074.2	3237.6	3332.8	3374.1	3408.2	3363.3	3341.8	3386.7
25°	3004.2	3029.3	3120.9	3282.5	3465.7	3575.2	3609.3	3636.3	3564.4	3483.6	3489.0
27.5°	3241.2	3259.2	3349.0	3521.3	3704.5	3828.4	3858.9	3905.6	3810.5	3681.2	3645.3
30°	3523.1	3541.1	3636.3	3817.6	3999.0	4104.9	4151.6	4209.1	4104.9	3943.3	3902.0
32.5°	3853.6	3871.5	3993.6	4180.4	4329.4	4444.3	4489.2	4550.3	4467.7	4286.3	4239.6
35°	4248.6	4259.4	4403.0	4605.9	4764.0	4875.3	4905.8	4977.7	4886.1	4704.7	4679.6
37.5°	4706.5	4719.1	4875.3	5110.5	5272.1	5396.0	5444.5	5464.3	5353.0	5150.0	5130.3
40°	5209.3	5250.6	5403.2	5656.4	5837.8	5994.0	6037.1	5970.7	5814.4	5537.9	5502.0
42.5°	5733.6	5769.6	5940.1	6214.9	6425.0	6584.8	6586.6	6442.9	6177.2	5794.7	5740.8
45°	6170.0	6184.4	6405.2	6681.8	6940.3	7053.5	7064.2	6803.9	6403.4	5943.7	5828.8
47.5°	6469.9	6493.2	6685.4	6951.1	7236.6	7339.0	7317.4	6992.4	6511.2	6040.7	5850.4
50°	6473.5	6513.0	6721.3	6978.1	7254.6	7378.5	7348.0	7046.3	6572.2	6044.3	5798.3
52.5°	5900.6	5965.3	6304.7	6676.4	7100.2	7312.0	7319.2	7116.3	6548.9	5986.8	5751.6
55°	4451.5	4521.5	4948.9	5582.8	6401.6	6992.4	7094.8	7033.7	6521.9	6012.0	5834.2
57.5°	2355.9	2302.1	2539.1	3167.6	4196.5	5241.6	5541.5	6029.9	6222.1	6042.5	5986.8
60°	513.6	547.7	729.1	982.2	1637.7	2465.5	2758.2	3595.0	4589.8	5031.5	5351.2
62.5°	220.9	217.3	226.3	256.8	375.3	624.9	763.2	1246.2	1966.3	2700.7	3198.1
65°	181.4	183.2	190.3	190.3	177.8	179.6	188.5	285.5	459.7	644.7	865.5
67.5°	136.5	138.3	150.8	154.4	145.5	129.3	127.5	107.7	113.1	141.9	147.2
70°	86.2	86.2	93.4	97.0	97.0	89.8	88.0	77.2	75.4	86.2	97.0
72.5°	46.7	46.7	50.3	52.1	50.3	48.5	48.5	46.7	44.9	52.1	66.4
75°	19.8	19.8	21.5	21.5	19.8	19.8	19.8	19.8	19.8	23.3	35.9
77.5°	3.6	5.4	7.2	5.4	3.6	3.6	3.6	5.4	5.4	7.2	10.8
80°	1.8	1.8	3.6	1.8	0.0	0.0	0.0	0.0	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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°	2309.3	2309.3	2309.3	2309.3	2309.3	2309.3	2309.3	2309.3	2309.3	2309.3	2309.3
2.5°	2348.8	2329.0	2336.2	2339.8	2334.4	2330.8	2311.1	2305.7	2296.7	2282.3	2278.7
5°	2427.8	2411.6	2409.8	2399.0	2373.9	2343.4	2305.7	2289.5	2271.5	2253.6	2250.0
7.5°	2560.7	2540.9	2528.3	2492.4	2435.0	2386.5	2323.6	2289.5	2266.2	2242.8	2237.4
10°	2731.2	2707.9	2672.0	2605.5	2528.3	2458.3	2384.7	2339.8	2303.9	2271.5	2269.8
12.5°	2912.6	2887.5	2822.8	2738.4	2645.1	2580.4	2487.0	2424.2	2370.3	2321.8	2316.4
15°	3103.0	3072.4	2984.4	2883.9	2797.7	2731.2	2628.9	2528.3	2445.7	2375.7	2368.5
17.5°	3248.4	3210.7	3106.5	3031.1	2961.1	2892.9	2777.9	2645.1	2535.5	2451.1	2431.4
20°	3340.0	3304.1	3205.3	3164.0	3131.7	3083.2	2946.7	2808.5	2686.4	2582.2	2564.2
22.5°	3428.0	3384.9	3298.7	3298.7	3323.8	3304.1	3156.8	2998.8	2855.1	2734.8	2707.9
25°	3526.7	3492.6	3431.6	3481.8	3544.7	3542.9	3392.1	3194.5	3029.3	2894.7	2867.7
27.5°	3670.4	3636.3	3614.7	3709.9	3788.9	3783.5	3618.3	3404.6	3230.4	3097.6	3072.4
30°	3923.6	3891.3	3867.9	3982.8	4083.4	4045.7	3864.3	3657.8	3481.8	3331.0	3313.0
32.5°	4261.2	4227.1	4196.5	4311.5	4401.2	4352.8	4180.4	3986.4	3783.5	3636.3	3600.4
35°	4704.7	4632.9	4602.4	4738.8	4776.5	4722.7	4557.5	4386.9	4171.4	4002.6	3979.2
37.5°	5162.6	5078.2	5056.7	5175.2	5236.2	5216.5	5022.5	4844.8	4611.3	4424.6	4397.6
40°	5554.1	5476.9	5439.1	5624.1	5762.4	5774.9	5600.8	5383.5	5108.7	4914.8	4866.3
42.5°	5783.9	5717.5	5708.5	5995.8	6222.1	6383.7	6175.4	5950.9	5661.8	5442.7	5403.2
45°	5836.0	5792.9	5868.3	6245.4	6597.4	6891.9	6714.1	6477.1	6164.6	5933.0	5895.3
47.5°	5830.6	5816.2	5950.9	6374.7	6820.0	7182.8	7094.8	6827.2	6525.5	6283.1	6247.2
50°	5753.4	5755.2	5979.6	6439.3	6909.8	7261.8	7173.8	6926.0	6656.6	6417.8	6389.1
52.5°	5722.9	5712.1	5925.8	6419.6	7001.4	7225.9	7028.3	6750.0	6450.1	6155.6	6112.5
55°	5830.6	5803.7	5933.0	6403.4	7012.2	7206.1	6685.4	6082.0	5467.9	5119.5	5090.8
57.5°	5992.2	5963.5	6024.5	6284.9	6450.1	5992.2	4920.2	3946.9	3314.8	3047.3	2930.6
60°	5351.2	5331.4	5284.7	4970.5	4263.0	3216.1	2190.7	1397.0	1003.8	811.7	811.7
62.5°	3320.2	3293.3	3040.1	2259.0	1641.3	949.9	522.5	326.8	247.8	231.6	229.8
65°	932.0	926.6	766.8	542.3	344.8	213.7	188.5	192.1	188.5	183.2	181.4
67.5°	140.1	154.4	154.4	125.7	120.3	134.7	158.0	168.8	159.8	150.8	147.2
70°	89.8	97.0	93.4	80.8	86.2	100.6	113.1	114.9	109.5	100.6	98.8
72.5°	62.8	70.0	57.5	52.1	53.9	59.3	64.6	64.6	62.8	59.3	55.7
75°	37.7	37.7	26.9	25.1	25.1	26.9	26.9	30.5	30.5	28.7	26.9
77.5°	12.6	14.4	9.0	7.2	7.2	7.2	9.0	10.8	10.8	9.0	7.2
80°	1.8	3.6	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	1.8
82.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
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)