

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: P637726

Luminaire Tested: GWS-SA4D-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637726
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-SA4D-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14915 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

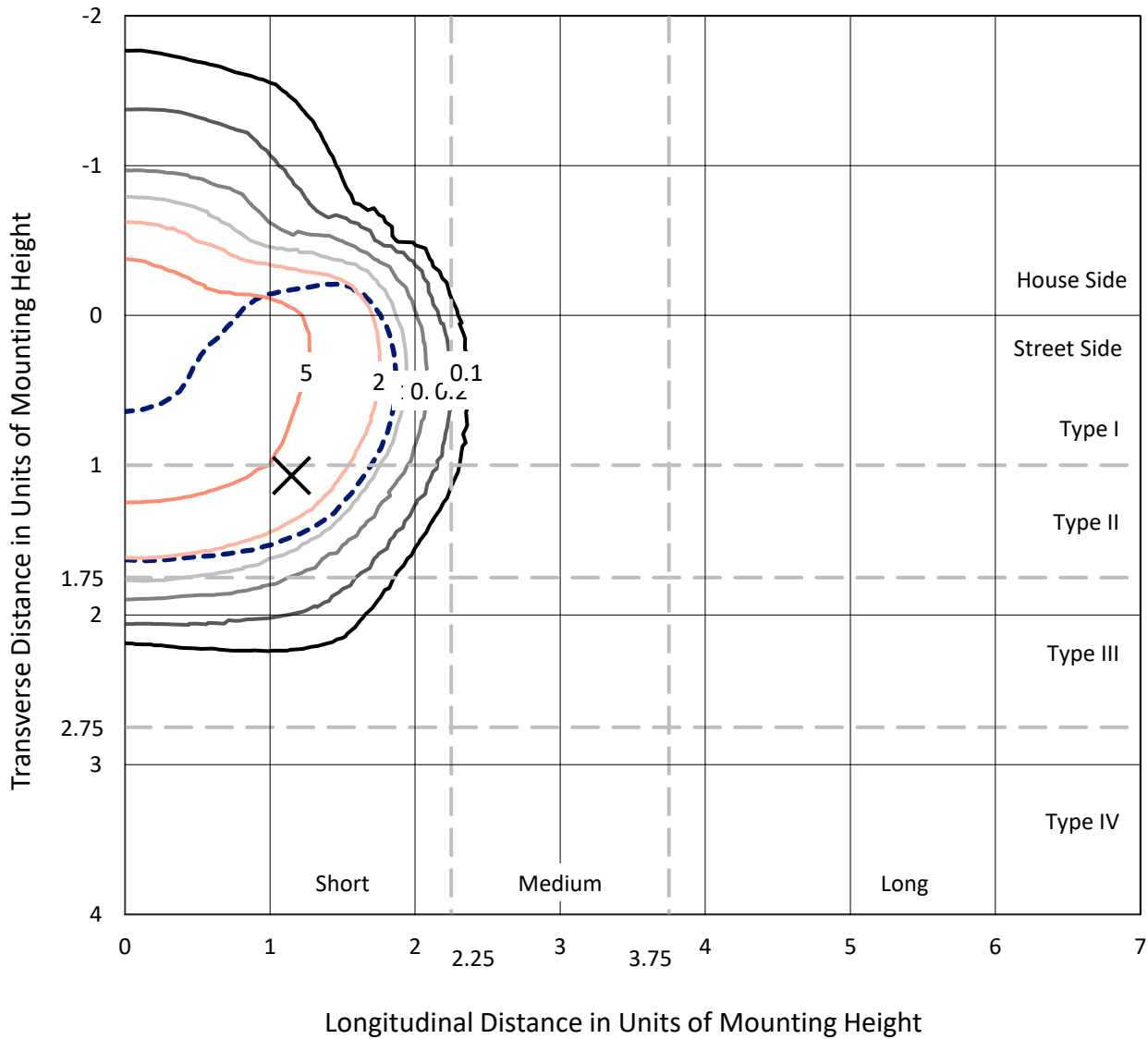
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

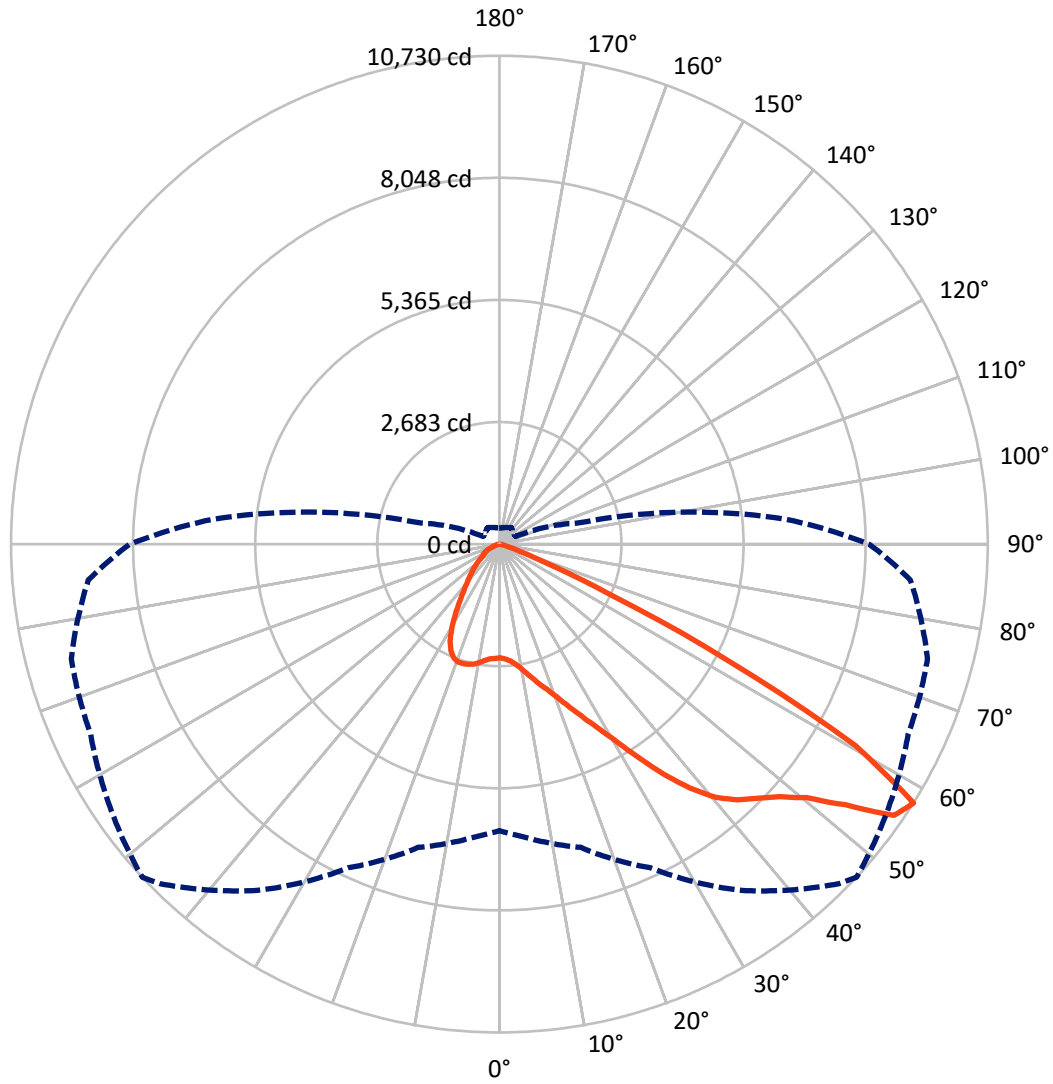
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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	3235.8	0.0	3235.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11679.2	0.0	11679.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	14915.0	0.0	14915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.4	1.7
10°-20°	838.2	5.6
20°-30°	1556.3	10.4
30°-40°	2491.3	16.7
40°-50°	3641.7	24.4
50°-60°	4494.5	30.1
60°-70°	1501.8	10.1
70°-80°	139.9	0.9
80°-90°	2.9	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°	14915.0	100.0
0°-180°	14915.0	100.0

Coefficient of Utilization



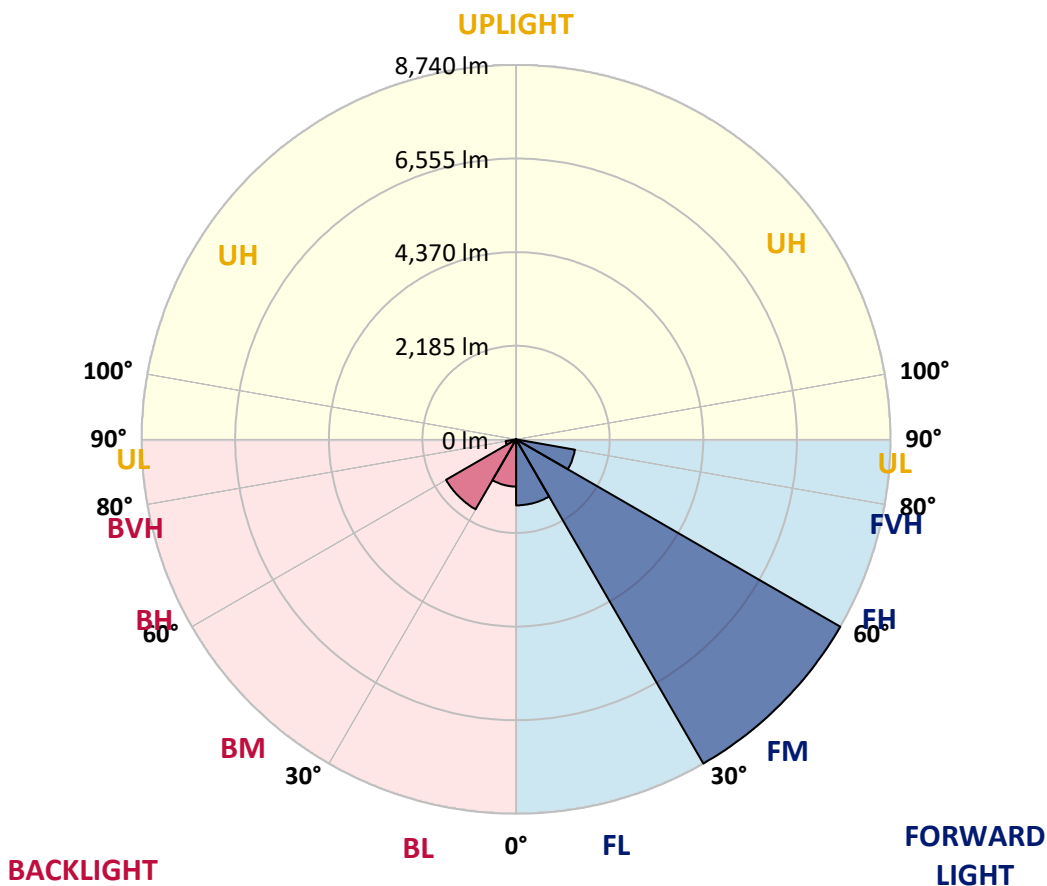
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1541.4	10.3			
FM (30°-60°)	8740.1	58.6			
FH (60°-80°)	1395.7	9.4			G1/1800
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1101.4	7.4	B3/2500		
BM (30°-60°)	1887.5	12.7	B2/2500		
BH (60°-80°)	246.0	1.6	B1/500		G1/500
BVH (80°-90°)	0.9	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°	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8
2.5°	2522.8	2521.0	2519.3	2529.7	2526.2	2524.5	2528.0	2528.0	2528.0	2517.6	2496.8
5°	2583.4	2583.4	2581.6	2592.0	2583.4	2578.2	2579.9	2579.9	2573.0	2553.9	2528.0
7.5°	2678.6	2675.1	2671.7	2682.1	2673.4	2671.7	2675.1	2664.7	2652.6	2621.5	2585.1
10°	2815.4	2815.4	2810.2	2820.6	2813.6	2810.2	2810.2	2803.3	2780.7	2732.3	2678.6
12.5°	3004.1	2995.5	2983.3	2974.7	2971.2	2969.5	2971.2	2960.8	2936.6	2874.2	2799.8
15°	3210.2	3203.2	3184.2	3170.3	3151.3	3147.8	3158.2	3149.6	3125.3	3040.5	2934.9
17.5°	3469.9	3478.5	3430.1	3400.6	3345.2	3341.7	3345.2	3359.1	3341.7	3232.7	3078.6
20°	3691.5	3698.4	3662.1	3641.3	3591.1	3568.6	3575.5	3598.0	3579.0	3450.8	3236.1
22.5°	3928.7	3937.4	3899.3	3856.0	3833.5	3833.5	3859.5	3890.6	3864.7	3696.7	3416.2
25°	4212.7	4219.6	4188.4	4131.3	4091.5	4141.7	4179.8	4262.9	4219.6	3991.1	3629.2
27.5°	4538.2	4539.9	4494.9	4436.0	4415.3	4508.8	4546.9	4675.0	4657.7	4321.8	3854.3
30°	4886.2	4888.0	4877.6	4837.7	4818.7	4941.6	4993.6	5178.8	5166.7	4732.1	4160.7
32.5°	5248.1	5248.1	5267.1	5263.7	5286.2	5487.0	5570.2	5781.4	5769.3	5234.2	4541.7
35°	5611.7	5613.4	5646.3	5729.5	5823.0	6089.6	6198.7	6454.9	6427.2	5835.1	5028.2
37.5°	6025.5	6008.2	6053.2	6177.9	6385.7	6693.9	6797.8	7041.9	7010.7	6449.7	5663.7
40°	6524.2	6493.0	6493.0	6638.5	6874.0	7228.9	7317.2	7438.4	7332.8	6946.7	6287.0
42.5°	7074.8	7045.4	7007.3	7135.4	7332.8	7609.8	7682.6	7649.7	7563.1	7415.9	6996.9
45°	7632.3	7587.3	7613.3	7691.2	7805.5	7937.1	7964.8	7812.4	7772.6	7814.1	7583.9
47.5°	8056.6	8025.4	8089.5	8198.5	8292.0	8311.1	8292.0	8080.8	8077.3	8224.5	7990.8
50°	8198.5	8202.0	8378.6	8617.6	8768.2	8783.8	8757.8	8515.4	8482.5	8525.8	8210.7
52.5°	8212.4	8226.2	8484.2	8939.6	9350.0	9537.0	9516.2	9254.7	8932.7	8885.9	8543.1
55°	7878.2	7959.6	8319.7	8984.6	9857.3	10454.6	10523.9	10023.5	9545.6	9505.8	9258.2
57.5°	6297.4	6463.6	6898.2	7845.3	9291.1	10549.9	10730.0	10369.8	9907.5	9737.8	9066.0
60°	3764.2	3970.3	4387.6	5549.4	7071.3	8671.2	8981.2	9031.4	8818.4	8328.4	6955.3
62.5°	1615.5	1598.2	2112.4	3002.4	4205.8	5511.3	5651.5	5869.7	6055.0	5542.5	4221.3
65°	554.1	602.6	838.0	1354.0	2105.5	2559.1	2683.8	2879.4	3142.6	2593.7	1546.2
67.5°	342.8	363.6	483.1	799.9	1135.8	1118.5	1063.1	1032.0	1004.3	687.4	424.2
70°	249.3	266.6	339.4	550.6	763.6	536.8	465.8	377.5	419.0	386.1	301.3
72.5°	168.0	181.8	233.7	334.2	391.3	261.5	242.4	275.3	332.4	316.9	245.9
75°	100.4	109.1	133.3	162.8	159.3	135.1	136.8	193.9	254.5	237.2	174.9
77.5°	69.3	72.7	88.3	105.6	77.9	41.6	38.1	53.7	86.6	86.6	58.9
80°	17.3	22.5	22.5	13.9	12.1	10.4	10.4	15.6	24.2	17.3	8.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5	3.5
85°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5
87.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5
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°	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8
2.5°	2508.9	2488.1	2502.0	2498.5	2508.9	2512.4	2496.8	2493.3	2495.1	2474.3	2467.4
5°	2533.1	2508.9	2515.8	2508.9	2521.0	2531.4	2526.2	2533.1	2541.8	2526.2	2519.3
7.5°	2585.1	2560.9	2559.1	2548.7	2566.0	2573.0	2571.2	2590.3	2607.6	2597.2	2586.8
10°	2675.1	2642.2	2638.8	2630.1	2635.3	2640.5	2621.5	2624.9	2640.5	2628.4	2623.2
12.5°	2785.9	2746.1	2737.5	2716.7	2716.7	2690.7	2649.2	2640.5	2652.6	2644.0	2635.3
15°	2905.4	2851.7	2837.9	2801.5	2766.9	2718.4	2675.1	2664.7	2673.4	2663.0	2656.1
17.5°	3038.7	2978.1	2933.1	2869.1	2792.9	2735.7	2687.2	2664.7	2650.9	2630.1	2628.4
20°	3170.3	3090.7	3014.5	2912.3	2811.9	2725.3	2645.7	2586.8	2536.6	2505.4	2493.3
22.5°	3322.7	3205.0	3082.0	2938.3	2794.6	2663.0	2522.8	2422.3	2335.8	2306.3	2292.5
25°	3485.5	3333.1	3149.6	2962.6	2735.7	2524.5	2334.0	2185.1	2070.8	2032.8	2017.2
27.5°	3665.5	3456.0	3218.8	2957.4	2614.5	2327.1	2074.3	1889.0	1776.5	1741.9	1754.0
30°	3894.1	3615.3	3305.4	2903.7	2432.7	2050.1	1754.0	1598.2	1513.3	1480.4	1482.1
32.5°	4198.8	3843.9	3431.8	2789.4	2199.0	1734.9	1475.2	1360.9	1303.8	1260.5	1257.1
35°	4635.2	4191.9	3549.5	2605.9	1915.0	1454.4	1265.7	1175.7	1096.0	1045.8	1054.5
37.5°	5158.1	4630.0	3613.6	2358.3	1596.4	1236.3	1108.1	1016.4	926.3	851.9	860.5
40°	5777.9	5203.1	3608.4	2032.8	1305.5	1087.4	976.6	869.2	756.7	689.1	696.1
42.5°	6468.8	5745.0	3495.8	1688.2	1082.2	966.2	850.2	715.1	606.0	564.5	566.2
45°	7067.9	6184.8	3298.5	1331.5	910.8	848.4	718.6	580.0	531.6	502.1	500.4
47.5°	7511.1	6506.9	3016.2	1047.5	772.2	741.1	590.4	519.4	481.4	457.1	453.6
50°	7758.7	6619.4	2704.6	820.7	652.8	628.5	528.1	471.0	445.0	429.4	425.9
52.5°	8091.2	6754.5	2481.2	647.6	547.1	514.2	486.5	438.1	420.7	408.6	403.4
55°	8617.6	7015.9	2287.3	514.2	455.4	448.5	458.8	419.0	408.6	389.6	382.7
57.5°	8122.3	6302.6	1776.5	398.2	384.4	410.4	443.3	400.0	374.0	356.7	349.8
60°	5715.6	4190.2	893.4	320.3	342.8	384.4	417.3	361.9	335.9	339.4	335.9
62.5°	3151.3	2096.8	401.7	268.4	297.8	339.4	356.7	313.4	296.1	325.5	330.7
65°	1030.2	713.4	232.0	207.8	235.5	277.0	308.2	297.8	294.4	329.0	339.4
67.5°	316.9	235.5	157.6	148.9	162.8	204.3	259.7	322.1	346.3	356.7	361.9
70°	237.2	185.3	135.1	126.4	133.3	155.8	219.9	268.4	252.8	254.5	251.1
72.5°	190.5	147.2	116.0	110.8	110.8	107.4	116.0	145.4	164.5	173.1	173.1
75°	133.3	103.9	88.3	81.4	64.1	51.9	46.7	46.7	41.6	39.8	38.1
77.5°	45.0	38.1	34.6	27.7	19.0	15.6	13.9	12.1	8.7	5.2	3.5
80°	6.9	5.2	3.5	3.5	3.5	1.7	1.7	1.7	0.0	0.0	0.0
82.5°	3.5	3.5	3.5	3.5	3.5	1.7	1.7	0.0	0.0	0.0	0.0
85°	3.5	3.5	3.5	3.5	3.5	1.7	1.7	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	3.5	3.5	1.7	1.7	1.7	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)