

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: P642951

Luminaire Tested: GWS-SA6D-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642951
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-SA6D-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17572.1 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

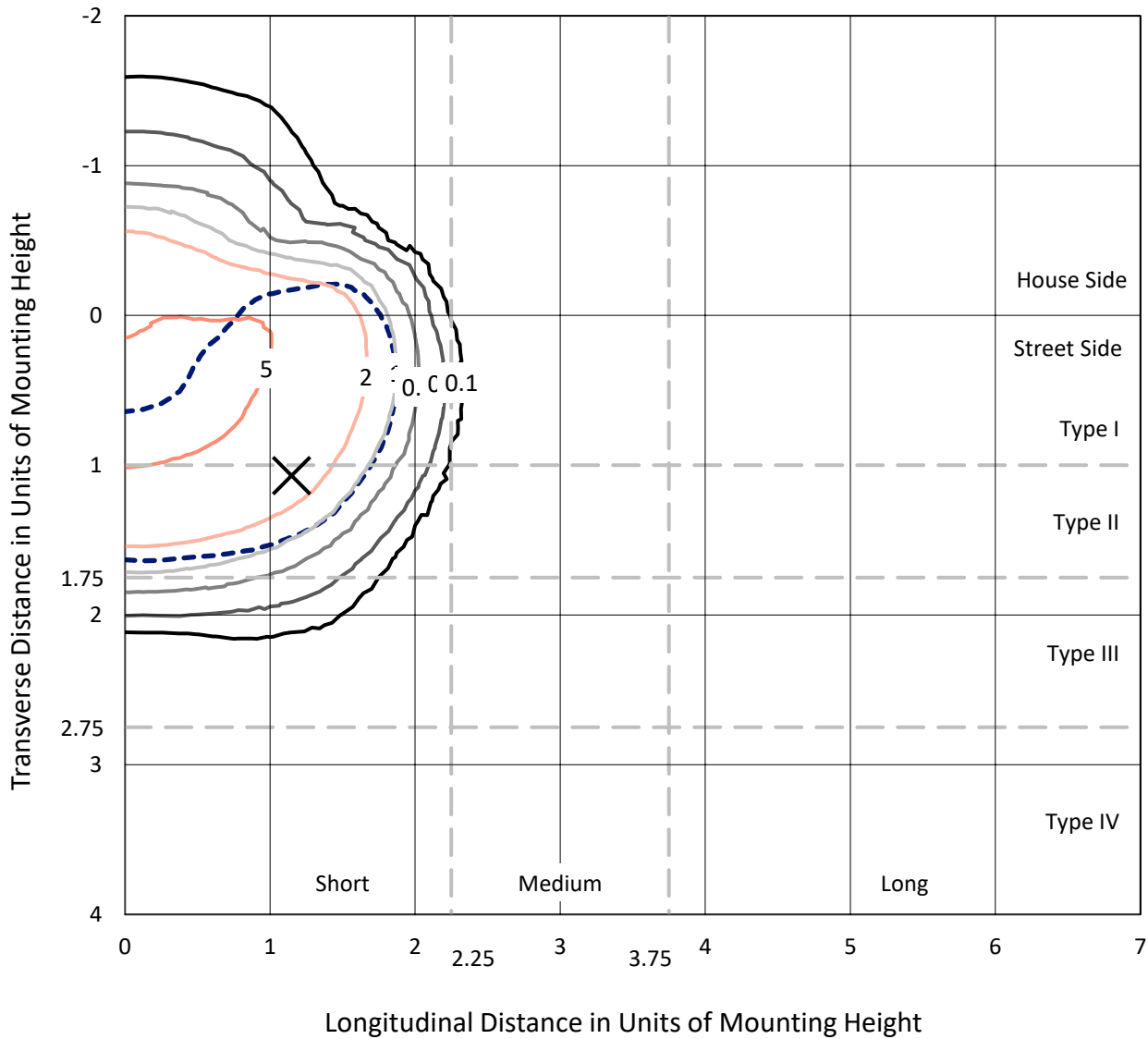
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

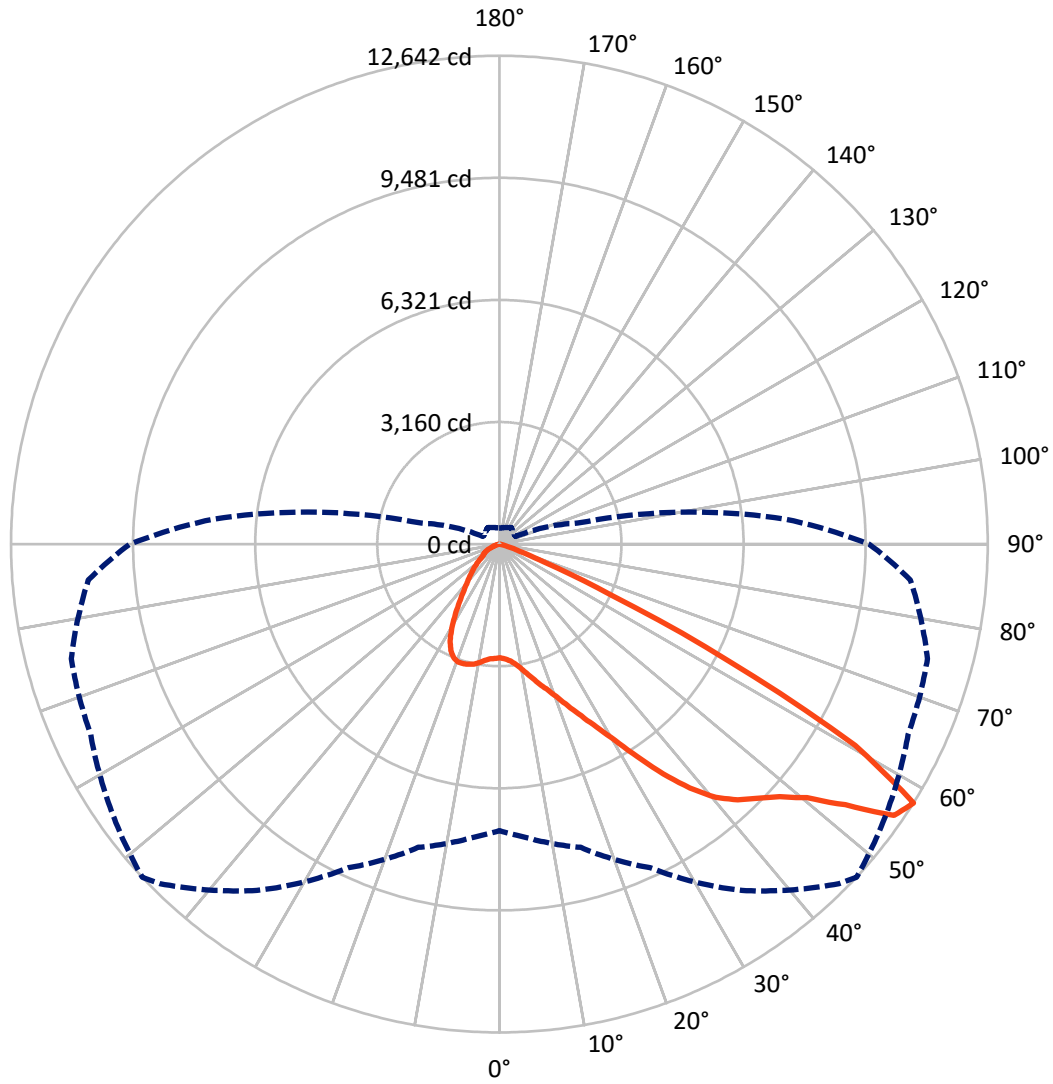
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3812.3	0.0	3812.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13759.8	0.0	13759.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	17572.1	0.0	17572.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	1.7
10°-20°	987.5	5.6
20°-30°	1833.5	10.4
30°-40°	2935.1	16.7
40°-50°	4290.5	24.4
50°-60°	5295.2	30.1
60°-70°	1769.4	10.1
70°-80°	164.9	0.9
80°-90°	3.4	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°	17572.1	100.0
0°-180°	17572.1	100.0

Coefficient of Utilization



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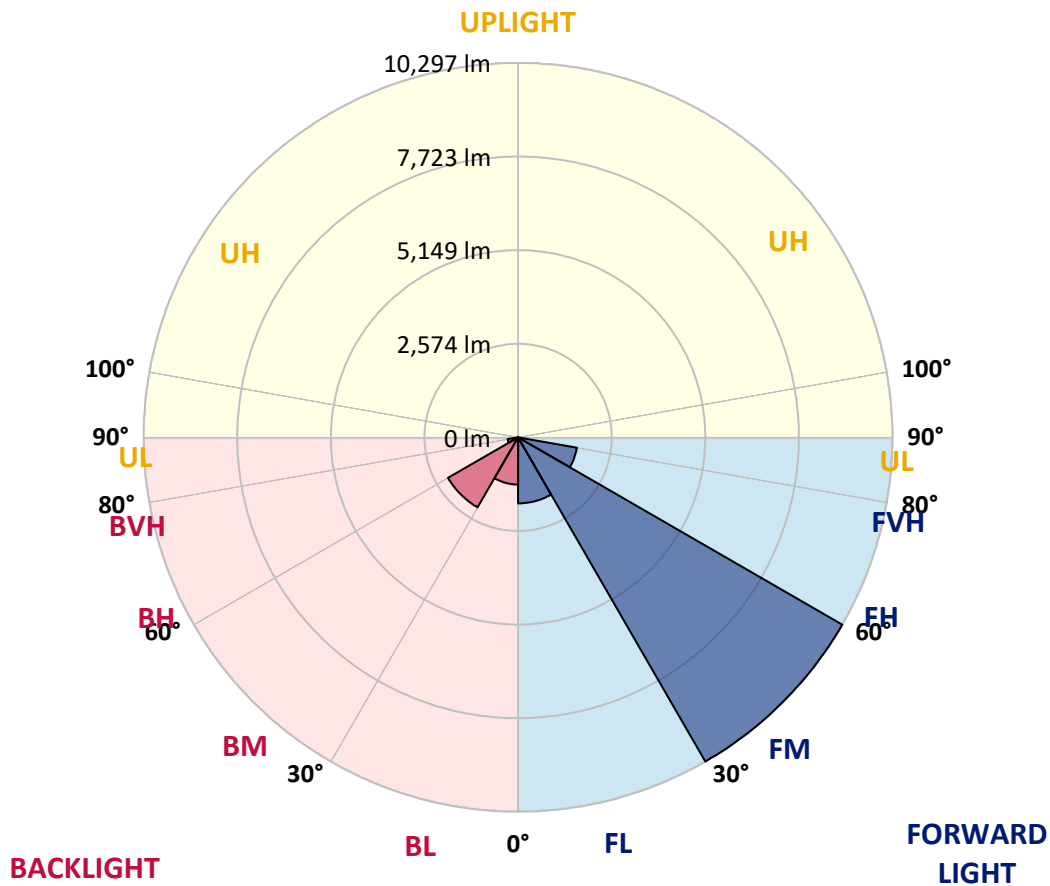
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1816.0	10.3			
FM (30°-60°)	10297.1	58.6			
FH (60°-80°)	1644.4	9.4			G1/1800
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1297.6	7.4	B3/2500		
BM (30°-60°)	2223.7	12.7	B2/2500		
BH (60°-80°)	289.8	1.6	B1/500		G1/500
BVH (80°-90°)	1.1	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°	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6
2.5°	2972.2	2970.1	2968.1	2980.3	2976.3	2974.2	2978.3	2978.3	2978.3	2966.1	2941.6
5°	3043.6	3043.6	3041.5	3053.8	3043.6	3037.5	3039.5	3039.5	3031.3	3008.9	2978.3
7.5°	3155.8	3151.7	3147.6	3159.9	3149.7	3147.6	3151.7	3139.5	3125.2	3088.5	3045.6
10°	3316.9	3316.9	3310.8	3323.1	3314.9	3310.8	3310.8	3302.7	3276.1	3219.0	3155.8
12.5°	3539.3	3529.1	3514.8	3504.6	3500.5	3498.5	3500.5	3488.3	3459.7	3386.3	3298.6
15°	3782.0	3773.9	3751.4	3735.1	3712.7	3708.6	3720.8	3710.6	3682.1	3582.1	3457.7
17.5°	4088.0	4098.2	4041.1	4006.4	3941.2	3937.1	3941.2	3957.5	3937.1	3808.6	3627.0
20°	4349.1	4357.3	4314.5	4290.0	4230.8	4204.3	4212.5	4239.0	4216.5	4065.6	3812.6
22.5°	4628.6	4638.8	4593.9	4542.9	4516.4	4516.4	4547.0	4583.7	4553.1	4355.3	4024.8
25°	4963.2	4971.3	4934.6	4867.3	4820.4	4879.5	4924.4	5022.3	4971.3	4702.1	4275.7
27.5°	5346.7	5348.7	5295.7	5226.3	5201.8	5312.0	5356.9	5507.8	5487.4	5091.7	4540.9
30°	5756.7	5758.7	5746.5	5699.6	5677.1	5822.0	5883.2	6101.5	6087.2	5575.1	4902.0
32.5°	6183.0	6183.0	6205.5	6201.4	6227.9	6464.6	6562.5	6811.3	6797.1	6166.7	5350.8
35°	6611.4	6613.5	6652.2	6750.1	6860.3	7174.5	7303.0	7604.9	7572.2	6874.6	5924.0
37.5°	7099.0	7078.6	7131.6	7278.5	7523.3	7886.4	8008.8	8296.4	8259.7	7598.8	6672.6
40°	7686.5	7649.8	7649.8	7821.1	8098.5	8516.7	8620.8	8763.6	8639.1	8184.2	7407.0
42.5°	8335.2	8300.5	8255.6	8406.6	8639.1	8965.5	9051.2	9012.4	8910.4	8737.0	8243.4
45°	8992.0	8939.0	8969.6	9061.4	9196.0	9351.1	9383.7	9204.2	9157.3	9206.2	8934.9
47.5°	9491.8	9455.1	9530.6	9659.1	9769.3	9791.7	9769.3	9520.4	9516.3	9689.7	9414.3
50°	9659.1	9663.2	9871.3	10152.8	10330.2	10348.6	10318.0	10032.4	9993.6	10044.6	9673.4
52.5°	9675.4	9691.7	9995.7	10532.2	11015.7	11236.0	11211.5	10903.5	10524.0	10469.0	10065.0
55°	9281.7	9377.6	9801.9	10585.2	11613.4	12317.1	12398.7	11809.2	11246.2	11199.3	10907.5
57.5°	7419.2	7615.1	8127.1	9243.0	10946.3	12429.3	12641.5	12217.2	11672.5	11472.6	10681.1
60°	4434.8	4677.6	5169.2	6538.0	8331.1	10216.0	10581.2	10640.3	10389.4	9812.1	8194.4
62.5°	1903.3	1882.9	2488.7	3537.2	4955.0	6493.1	6658.4	6915.4	7133.7	6529.8	4973.4
65°	652.8	709.9	987.3	1595.2	2480.6	3015.0	3161.9	3392.4	3702.5	3055.8	1821.7
67.5°	403.9	428.4	569.1	942.5	1338.2	1317.8	1252.5	1215.8	1183.2	809.9	499.8
70°	293.8	314.2	399.8	648.7	899.6	632.4	548.7	444.7	493.7	454.9	354.9
72.5°	197.9	214.2	275.4	393.7	461.0	308.0	285.6	324.3	391.7	373.3	289.7
75°	118.3	128.5	157.1	191.8	187.7	159.1	161.2	228.5	299.9	279.5	206.0
77.5°	81.6	85.7	104.0	124.4	91.8	49.0	44.9	63.2	102.0	102.0	69.4
80°	20.4	26.5	26.5	16.3	14.3	12.2	12.2	18.4	28.6	20.4	10.2
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1
85°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1
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°	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6
2.5°	2955.9	2931.4	2947.7	2943.6	2955.9	2959.9	2941.6	2937.5	2939.5	2915.1	2906.9
5°	2984.4	2955.9	2964.0	2955.9	2970.1	2982.4	2976.3	2984.4	2994.6	2976.3	2968.1
7.5°	3045.6	3017.1	3015.0	3002.8	3023.2	3031.3	3029.3	3051.7	3072.1	3059.9	3047.7
10°	3151.7	3112.9	3108.9	3098.7	3104.8	3110.9	3088.5	3092.5	3110.9	3096.6	3090.5
12.5°	3282.3	3235.3	3225.1	3200.7	3200.7	3170.1	3121.1	3110.9	3125.2	3115.0	3104.8
15°	3423.0	3359.8	3343.5	3300.6	3259.8	3202.7	3151.7	3139.5	3149.7	3137.4	3129.3
17.5°	3580.1	3508.7	3455.7	3380.2	3290.4	3223.1	3166.0	3139.5	3123.1	3098.7	3096.6
20°	3735.1	3641.3	3551.5	3431.2	3312.9	3210.9	3117.0	3047.7	2988.5	2951.8	2937.5
22.5°	3914.6	3775.9	3631.1	3461.8	3292.5	3137.4	2972.2	2853.9	2751.9	2717.2	2700.9
25°	4106.4	3926.9	3710.6	3490.3	3223.1	2974.2	2749.8	2574.4	2439.8	2394.9	2376.5
27.5°	4318.5	4071.7	3792.2	3484.2	3080.3	2741.7	2443.8	2225.6	2093.0	2052.2	2066.5
30°	4587.8	4259.4	3894.2	3421.0	2866.1	2415.3	2066.5	1882.9	1782.9	1744.1	1746.2
32.5°	4946.8	4528.7	4043.2	3286.3	2590.7	2044.0	1738.0	1603.4	1536.1	1485.1	1481.0
35°	5460.9	4938.7	4181.9	3070.1	2256.2	1713.5	1491.2	1385.1	1291.3	1232.1	1242.3
37.5°	6077.0	5454.8	4257.3	2778.4	1880.8	1456.5	1305.6	1197.4	1091.4	1003.6	1013.8
40°	6807.3	6130.0	4251.2	2394.9	1538.1	1281.1	1150.5	1024.0	891.5	811.9	820.1
42.5°	7621.2	6768.5	4118.6	1988.9	1275.0	1138.3	1001.6	842.5	714.0	665.0	667.1
45°	8327.0	7286.7	3886.1	1568.7	1073.0	999.6	846.6	683.4	626.3	591.6	589.5
47.5°	8849.2	7666.1	3553.6	1234.2	909.8	873.1	695.6	612.0	567.1	538.5	534.5
50°	9141.0	7798.7	3186.4	966.9	769.1	740.5	622.2	554.9	524.3	505.9	501.8
52.5°	9532.6	7957.8	2923.2	762.9	644.6	605.9	573.2	516.1	495.7	481.4	475.3
55°	10152.8	8265.8	2694.8	605.9	536.5	528.3	540.6	493.7	481.4	459.0	450.8
57.5°	9569.3	7425.4	2093.0	469.2	452.9	483.5	522.2	471.2	440.6	420.2	412.1
60°	6733.8	4936.6	1052.6	377.4	403.9	452.9	491.6	426.3	395.7	399.8	395.7
62.5°	3712.7	2470.4	473.3	316.2	350.9	399.8	420.2	369.2	348.8	383.5	389.6
65°	1213.8	840.5	273.4	244.8	277.4	326.4	363.1	350.9	346.8	387.6	399.8
67.5°	373.3	277.4	185.6	175.4	191.8	240.7	306.0	379.4	408.0	420.2	426.3
70°	279.5	218.3	159.1	148.9	157.1	183.6	259.1	316.2	297.8	299.9	295.8
72.5°	224.4	173.4	136.7	130.6	130.6	126.5	136.7	171.4	193.8	204.0	204.0
75°	157.1	122.4	104.0	95.9	75.5	61.2	55.1	55.1	49.0	46.9	44.9
77.5°	53.0	44.9	40.8	32.6	22.4	18.4	16.3	14.3	10.2	6.1	4.1
80°	8.2	6.1	4.1	4.1	4.1	2.0	2.0	2.0	0.0	0.0	0.0
82.5°	4.1	4.1	4.1	4.1	4.1	2.0	2.0	0.0	0.0	0.0	0.0
85°	4.1	4.1	4.1	4.1	4.1	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	2.0	2.0	2.0	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)