

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: P640040

Luminaire Tested: GWS-SA5D-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640040  
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-SA5D-722-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

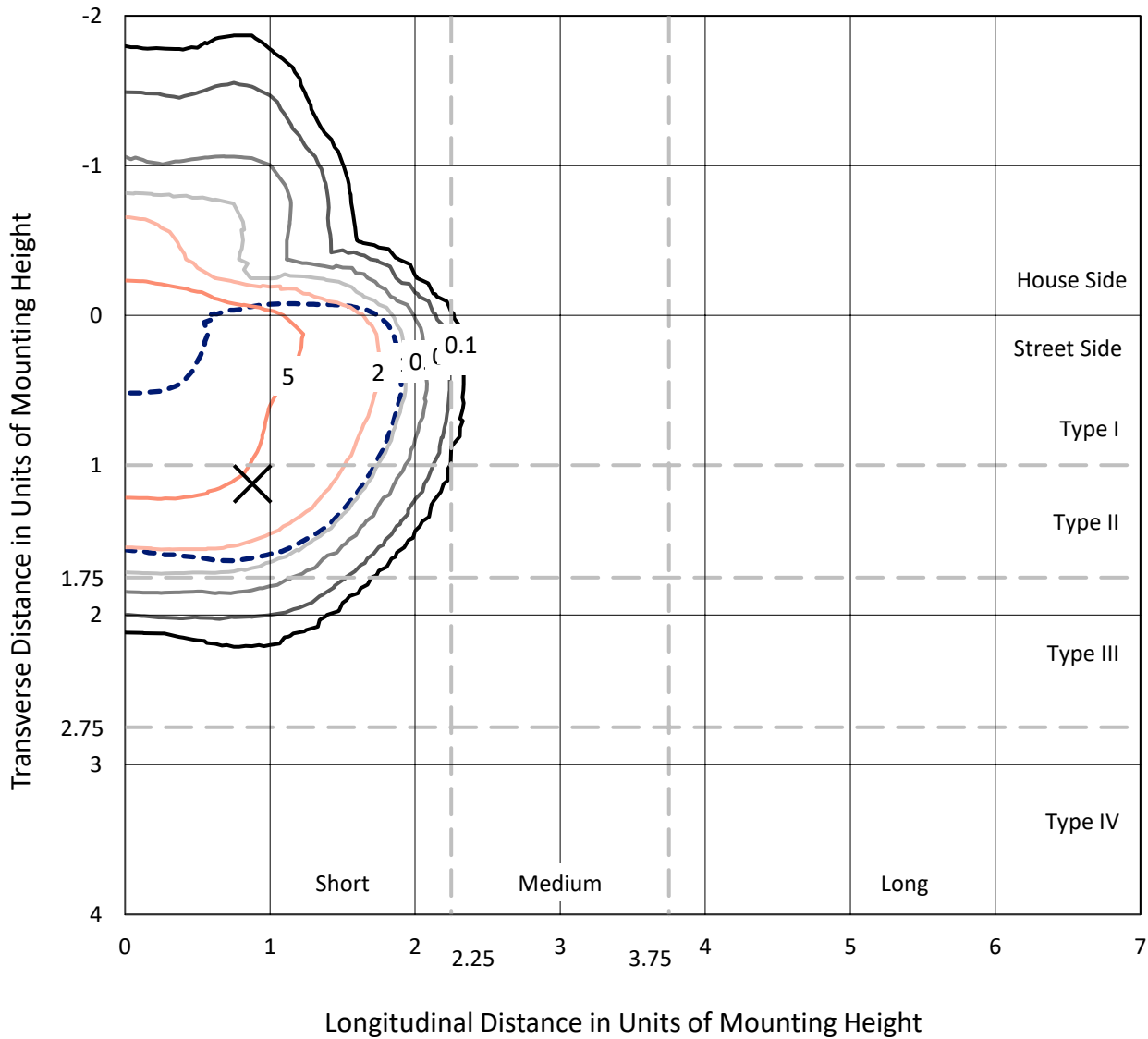
Lumens per Lamp: N/A  
Luminaire Lumens: 13878.5 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

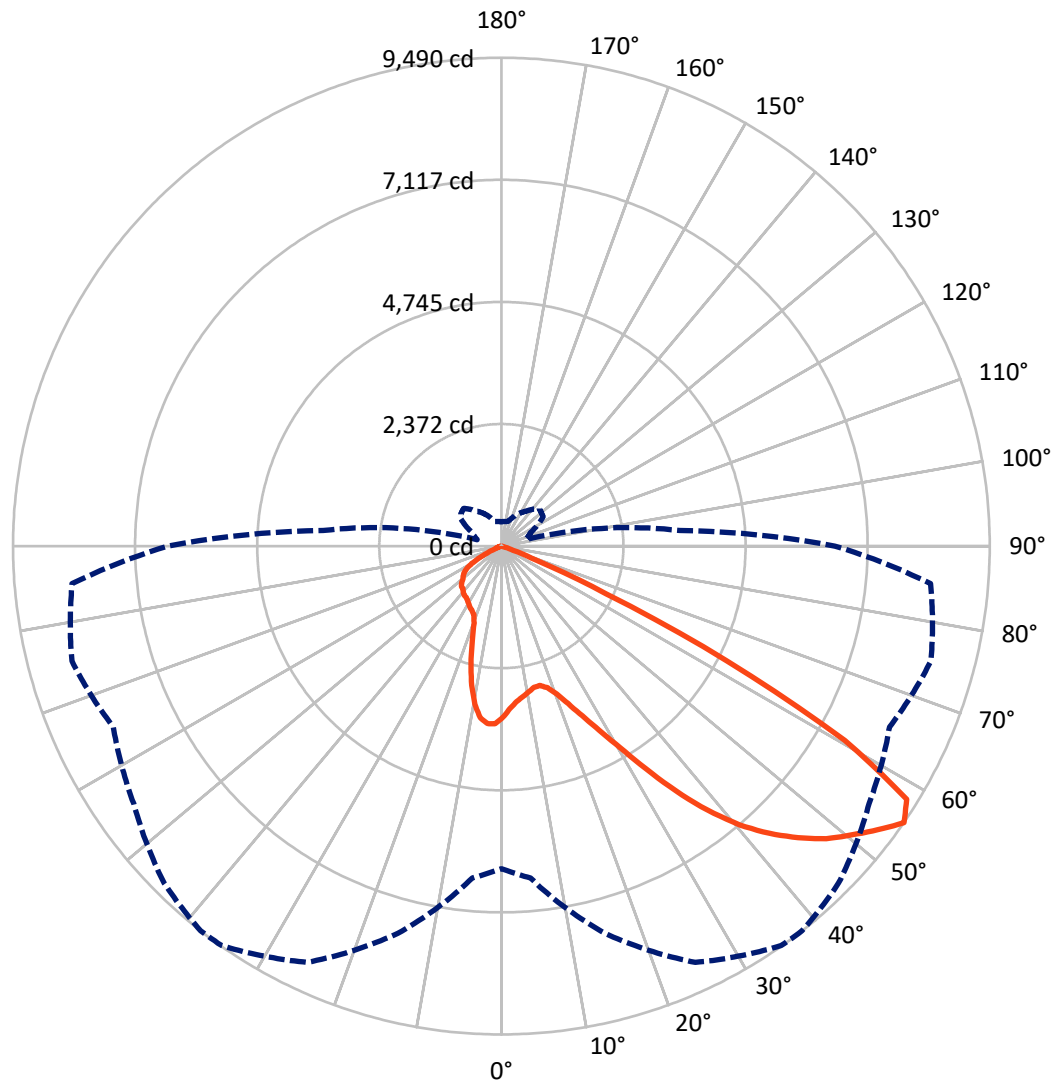
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 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
<b>House Side</b>	Lumens	2704.0	0.0	2704.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	11174.6	0.0	11174.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	13878.5	0.0	13878.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.7	2.2
10°-20°	828.5	6.0
20°-30°	1421.7	10.2
30°-40°	2358.0	17.0
40°-50°	3466.3	25.0
50°-60°	4050.5	29.2
60°-70°	1373.0	9.9
70°-80°	70.2	0.5
80°-90°	2.8	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°	13878.5	100.0
0°-180°	13878.5	100.0

**Coefficient of Utilization**



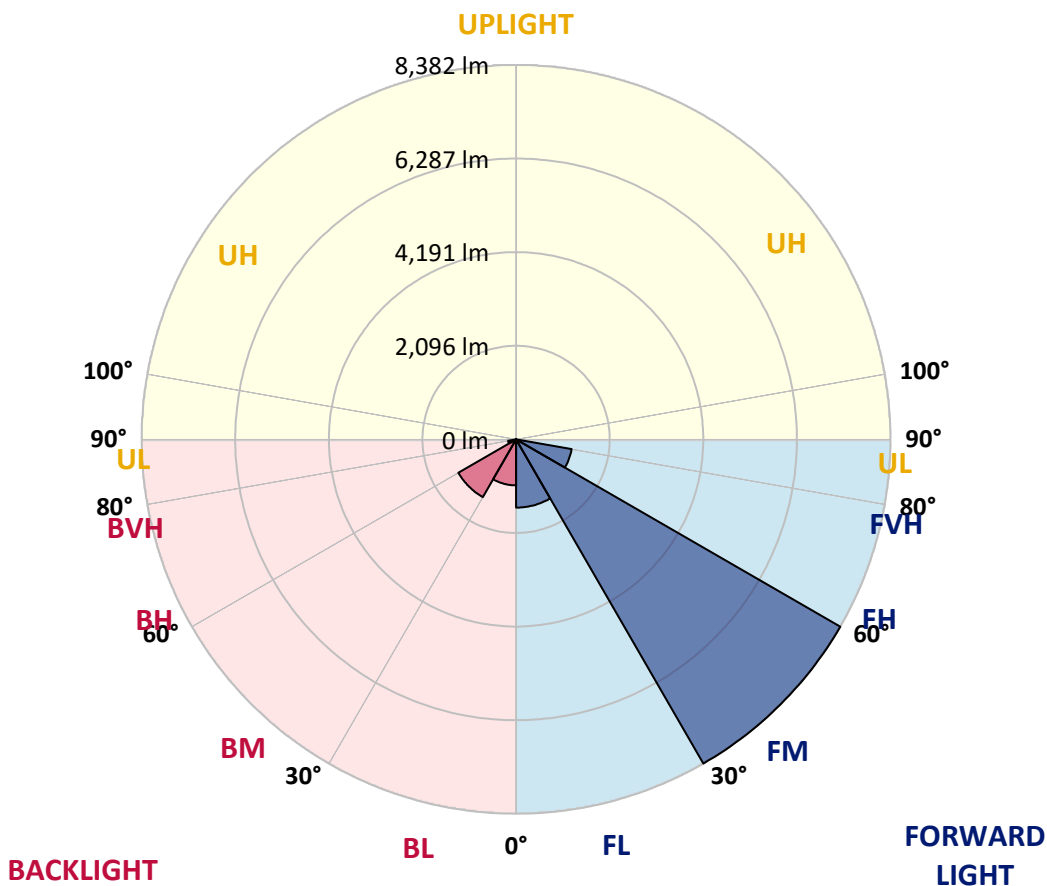
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1527.7	11.0			
FM (30°-60°)	8382.2	60.4			
FH (60°-80°)	1263.2	9.1			G1/1800
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	1030.2	7.4	B3/2500		
BM (30°-60°)	1492.5	10.8	B2/2500		
BH (60°-80°)	180.0	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°	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2
2.5°	3099.7	3093.4	3106.1	3131.5	3155.3	3163.2	3187.0	3220.3	3240.9	3290.1	3329.8
5°	2960.1	2957.0	2969.7	2991.9	3023.6	3034.7	3071.2	3126.7	3182.2	3267.9	3352.0
7.5°	2833.2	2831.6	2850.7	2899.9	2945.9	2960.1	3004.6	3072.8	3147.3	3279.0	3402.7
10°	2666.7	2668.2	2704.7	2774.5	2858.6	2887.2	2958.6	3056.9	3153.7	3323.4	3494.7
12.5°	2612.7	2615.9	2634.9	2688.9	2780.9	2817.4	2917.3	3066.4	3190.2	3386.9	3613.7
15°	2744.4	2744.4	2728.5	2734.9	2776.1	2809.4	2914.1	3098.1	3252.0	3463.0	3731.1
17.5°	2999.8	2990.3	2950.6	2896.7	2882.4	2893.5	2977.6	3166.4	3339.3	3551.8	3864.4
20°	3345.6	3348.8	3271.1	3158.4	3068.0	3066.4	3117.2	3286.9	3464.6	3658.1	4008.7
22.5°	3764.4	3751.7	3648.6	3494.7	3337.7	3325.0	3345.6	3470.9	3645.4	3826.3	4186.4
25°	4249.8	4243.5	4097.6	3891.3	3683.5	3653.4	3653.4	3777.1	3904.0	4065.8	4399.0
27.5°	4757.5	4757.5	4616.3	4378.3	4102.3	4048.4	4040.4	4186.4	4270.5	4302.2	4578.2
30°	5279.4	5273.0	5133.4	4889.1	4594.1	4538.6	4516.3	4624.2	4684.5	4589.3	4801.9
32.5°	5809.2	5820.3	5679.1	5452.3	5189.0	5152.5	5084.3	5084.3	5133.4	5000.2	5154.1
35°	6378.7	6375.6	6264.5	6110.6	5885.4	5844.1	5731.5	5555.4	5630.0	5571.3	5641.1
37.5°	6881.6	6905.4	6851.5	6737.2	6554.8	6513.6	6328.0	6009.1	6066.2	6158.2	6220.1
40°	7392.4	7411.4	7465.4	7428.9	7198.9	7122.7	6792.8	6269.3	6332.7	6648.4	6826.1
42.5°	7893.7	7903.2	8012.7	8073.0	7765.2	7631.9	7144.9	6427.9	6494.5	7032.3	7343.2
45°	8212.6	8233.2	8414.0	8598.0	8264.9	8082.5	7451.1	6631.0	6659.5	7298.8	7725.5
47.5°	8199.9	8247.5	8586.9	8921.7	8694.8	8498.1	7819.1	6956.2	6908.6	7549.5	7977.8
50°	7944.5	8001.6	8488.6	9020.0	9004.1	8821.7	8228.4	7427.3	7278.2	7771.5	8009.5
52.5°	7414.6	7579.6	8315.7	9032.7	9253.2	9161.2	8734.5	8061.9	7777.9	8090.4	8060.3
55°	6269.3	6472.3	7790.6	8924.8	9478.5	9489.6	9265.9	8723.4	8320.4	8639.3	8372.8
57.5°	4759.1	4920.9	5996.4	7944.5	9105.7	9288.1	9472.1	9072.4	8655.1	9013.7	8445.7
60°	2868.1	3055.3	3754.9	5829.9	7354.3	7665.3	8387.1	8309.3	7806.4	7960.3	6926.0
62.5°	1162.8	1261.2	1733.9	3212.4	4629.0	4919.3	5610.9	5728.3	5604.6	5447.5	4200.7
65°	425.1	464.8	694.8	1327.8	2128.9	2235.2	2600.0	2807.8	2979.2	2536.6	1562.6
67.5°	263.3	288.7	452.1	682.1	774.1	720.2	732.9	874.1	834.4	515.6	279.2
70°	195.1	215.7	353.8	472.7	312.5	241.1	163.4	174.5	157.0	138.0	136.4
72.5°	134.8	153.9	264.9	279.2	120.6	85.7	60.3	84.1	95.2	93.6	96.8
75°	88.8	103.1	166.6	109.5	30.1	23.8	20.6	44.4	57.1	57.1	58.7
77.5°	52.3	60.3	58.7	22.2	6.3	6.3	4.8	7.9	12.7	14.3	17.4
80°	6.3	4.8	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	4.8
82.5°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8
85°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.8	4.8
87.5°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.8	4.8
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°	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2	3328.2
2.5°	3359.9	3348.8	3394.8	3428.1	3455.1	3467.8	3450.3	3448.7	3448.7	3413.8	3404.3
5°	3399.6	3404.3	3469.4	3497.9	3502.7	3486.8	3447.1	3420.2	3404.3	3367.8	3347.2
7.5°	3475.7	3491.6	3553.4	3548.7	3505.8	3432.9	3328.2	3247.3	3194.9	3137.8	3102.9
10°	3585.2	3615.3	3653.4	3586.7	3450.3	3264.7	3049.0	2895.1	2803.1	2738.0	2698.4
12.5°	3718.4	3748.6	3735.9	3578.8	3294.9	2963.3	2685.7	2463.6	2357.3	2298.6	2257.4
15°	3853.3	3872.3	3789.8	3483.6	3020.4	2574.7	2265.3	2044.8	1914.7	1867.1	1832.2
17.5°	3991.3	3986.5	3799.3	3296.4	2654.0	2136.8	1832.2	1681.5	1645.0	1637.1	1633.9
20°	4135.6	4092.8	3761.2	3028.3	2213.0	1703.7	1530.8	1540.3	1607.0	1638.7	1645.0
22.5°	4300.6	4192.7	3666.1	2665.1	1762.4	1419.8	1437.2	1530.8	1621.3	1664.1	1670.4
25°	4476.7	4284.7	3507.4	2198.7	1389.6	1305.6	1408.7	1516.6	1613.3	1665.7	1672.0
27.5°	4592.5	4307.0	3247.3	1729.1	1192.9	1261.2	1370.6	1473.7	1573.7	1630.8	1638.7
30°	4717.8	4297.4	2893.5	1332.5	1126.3	1223.1	1318.3	1411.9	1503.9	1567.3	1573.7
32.5°	4901.8	4291.1	2462.0	1081.9	1099.3	1192.9	1262.7	1340.5	1403.9	1440.4	1435.7
35°	5143.0	4283.2	1959.1	975.6	1083.5	1169.1	1224.7	1261.2	1191.4	1169.1	1173.9
37.5°	5452.3	4302.2	1535.6	931.2	1078.7	1162.8	1210.4	1105.7	997.8	956.6	950.2
40°	5795.0	4351.4	1170.7	913.7	1094.6	1178.7	1156.5	983.5	850.3	769.4	751.9
42.5°	6139.2	4405.3	926.4	907.4	1121.6	1223.1	1067.6	894.7	694.8	648.8	642.5
45°	6394.6	4395.8	801.1	896.3	1145.3	1248.5	1043.8	767.8	620.3	599.6	601.2
47.5°	6523.1	4291.1	732.9	870.9	1154.9	1223.1	985.1	715.4	569.5	591.7	610.7
50°	6454.9	4019.8	669.4	821.7	1134.2	1189.8	891.5	675.8	544.1	636.1	679.0
52.5°	6372.4	3686.7	599.6	745.6	1085.1	1143.8	855.0	664.7	528.3	613.9	645.6
55°	6481.8	3475.7	485.4	628.2	988.3	1035.9	826.5	663.1	491.8	477.5	472.7
57.5°	6328.0	3055.3	347.4	452.1	758.3	820.1	805.9	652.0	436.2	434.7	441.0
60°	4890.7	1864.0	238.0	287.1	464.8	523.5	731.3	623.4	376.0	345.8	347.4
62.5°	2779.3	793.2	163.4	177.7	238.0	282.4	558.4	566.3	347.4	330.0	347.4
65°	967.7	284.0	126.9	119.0	131.7	150.7	320.4	437.8	315.7	285.5	288.7
67.5°	199.9	141.2	112.6	98.4	98.4	98.4	163.4	272.9	260.2	226.8	230.0
70°	126.9	120.6	98.4	84.1	80.9	74.6	93.6	150.7	179.3	165.0	166.6
72.5°	93.6	92.0	77.7	68.2	60.3	53.9	58.7	74.6	92.0	95.2	96.8
75°	57.1	58.7	50.8	42.8	38.1	33.3	34.9	34.9	34.9	31.7	34.9
77.5°	17.4	19.0	15.9	12.7	11.1	11.1	11.1	9.5	7.9	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0
82.5°	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0	0.0
85°	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	3.2	3.2	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)