

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: P639734

Luminaire Tested: GWS-SA5C-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-740-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13982.4 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

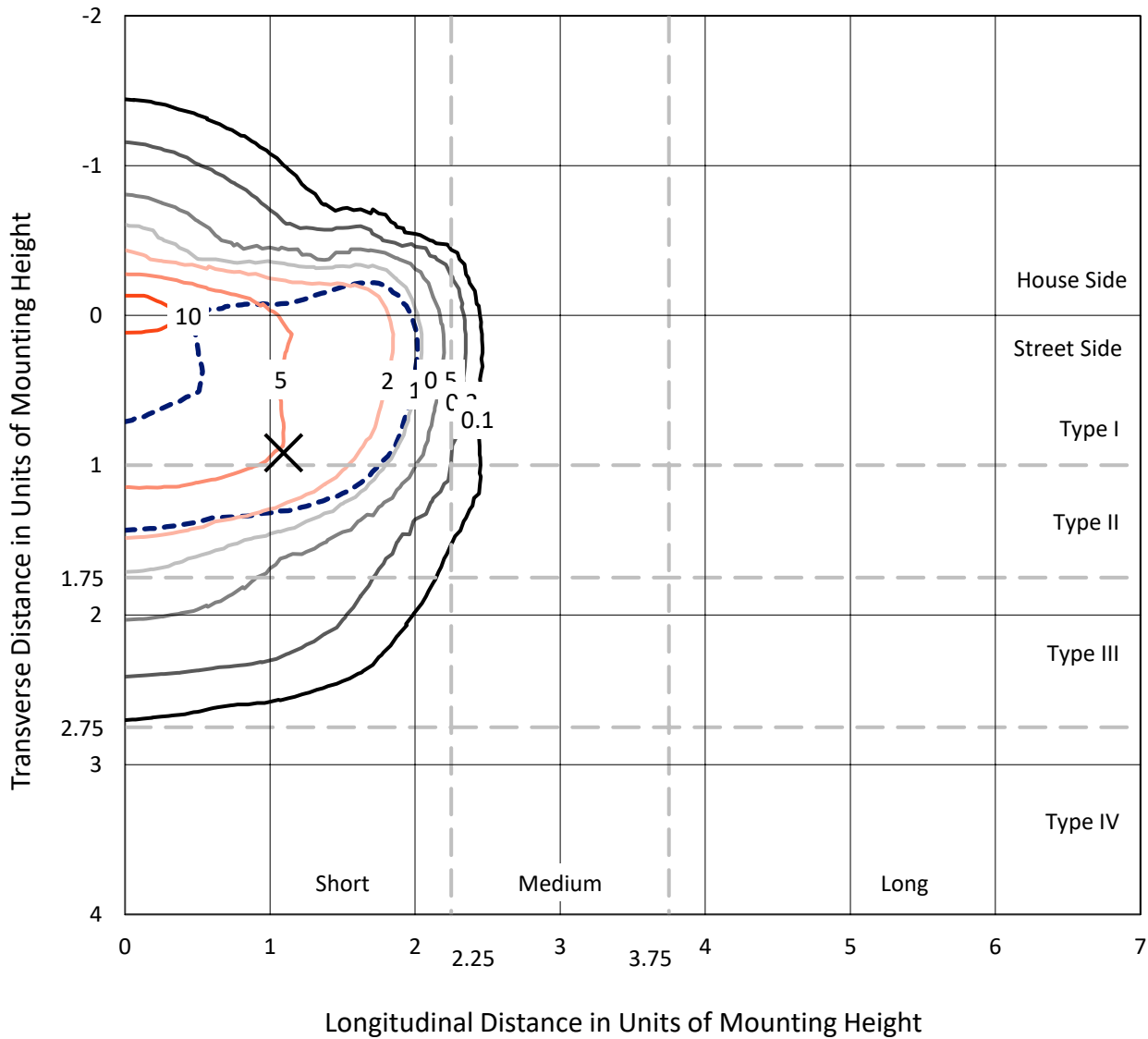
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

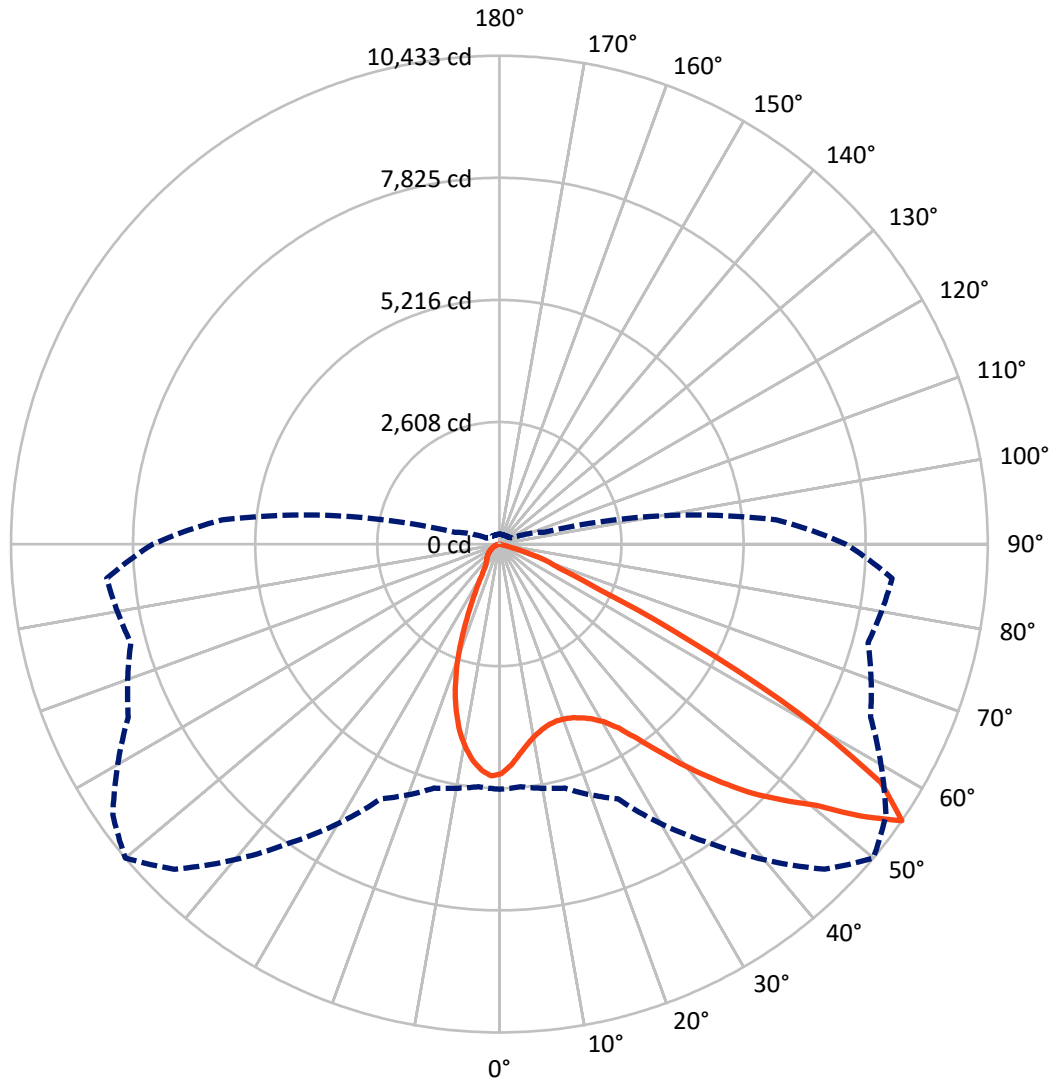
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2755.2	0.0	2755.2
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	11227.2	0.0	11227.2
	% Fixture	80.3	0.0	80.3
Total	Lumens	13982.4	0.0	13982.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.8	3.1
10°-20°	1060.2	7.6
20°-30°	1495.5	10.7
30°-40°	2213.0	15.8
40°-50°	3192.6	22.8
50°-60°	3765.9	26.9
60°-70°	1679.9	12.0
70°-80°	144.4	1.0
80°-90°	0.1	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°	13982.4	100.0
0°-180°	13982.4	100.0

Coefficient of Utilization



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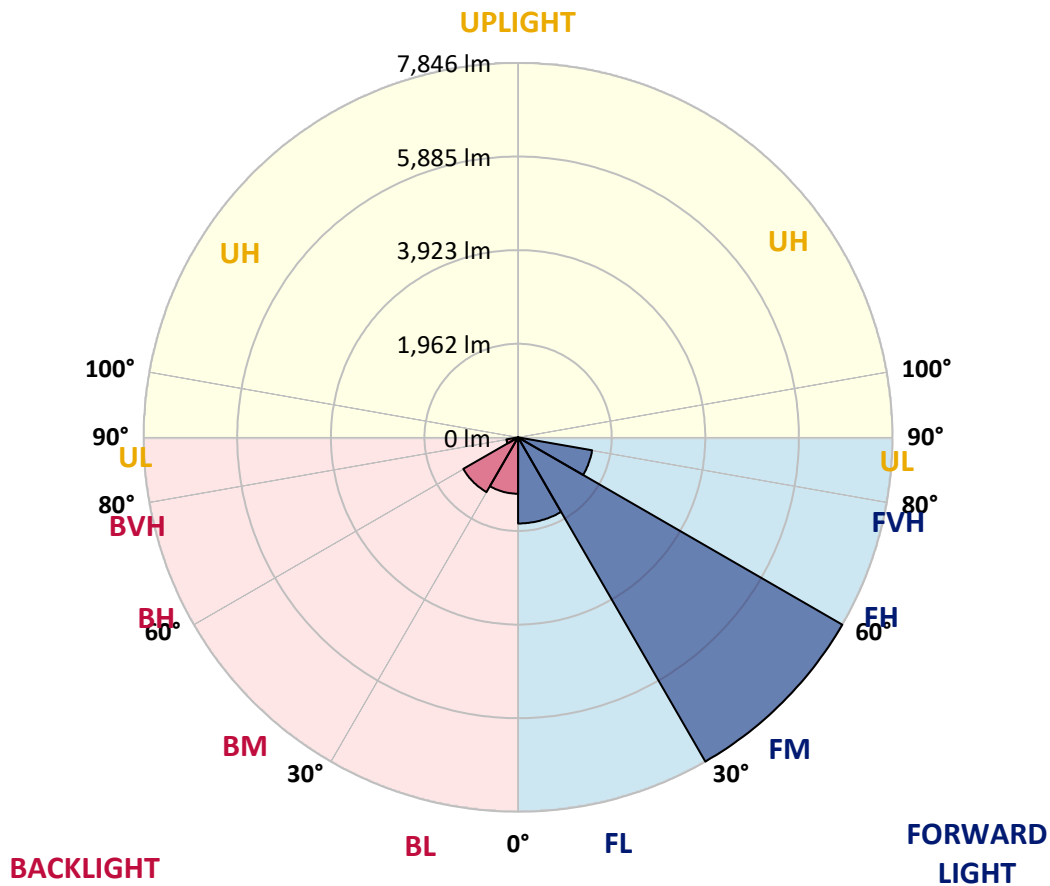
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1805.2	12.9			
FM (30°-60°)	7846.5	56.1			
FH (60°-80°)	1575.6	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1181.3	8.4	B3/2500		
BM (30°-60°)	1325.0	9.5	B2/2500		
BH (60°-80°)	248.8	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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°	50°	55°	65°	75°	85°
0°	4905.8	4905.8	4905.8	4905.8	4905.8	4905.8	4905.8	4905.8	4905.8	4905.8	4905.8
2.5°	4557.6	4561.0	4562.7	4608.8	4625.9	4694.1	4730.0	4748.8	4798.3	4856.3	4904.1
5°	4252.0	4246.9	4255.5	4313.5	4351.0	4451.8	4506.4	4543.9	4653.2	4789.7	4904.1
7.5°	3985.8	3996.0	4006.2	4069.4	4125.7	4235.0	4313.5	4369.8	4521.7	4724.9	4917.8
10°	3798.0	3798.0	3813.3	3885.0	3951.6	4086.5	4165.0	4236.7	4417.6	4666.8	4933.1
12.5°	3659.7	3661.4	3680.2	3762.1	3839.0	3978.9	4060.9	4130.8	4330.6	4608.8	4936.5
15°	3594.9	3589.7	3605.1	3692.2	3777.5	3908.9	3994.3	4062.6	4269.1	4576.4	4953.6
17.5°	3577.8	3574.4	3586.3	3671.7	3758.7	3886.7	3970.4	4038.7	4260.6	4586.6	5004.8
20°	3627.3	3620.5	3615.3	3688.7	3770.7	3897.0	3984.0	4060.9	4301.5	4642.9	5083.3
22.5°	3745.1	3745.1	3733.1	3769.0	3823.6	3938.0	4028.4	4129.1	4409.1	4755.6	5199.4
25°	3961.9	3944.8	3922.6	3938.0	3931.1	4002.8	4110.4	4250.3	4612.2	4941.6	5341.1
27.5°	4209.4	4224.7	4187.2	4188.9	4129.1	4103.5	4228.1	4439.8	4914.3	5204.5	5551.0
30°	4545.6	4533.7	4535.4	4530.3	4392.0	4270.8	4405.7	4687.3	5295.0	5605.7	5824.1
32.5°	4808.5	4825.6	4881.9	4914.3	4733.4	4538.8	4682.2	5023.6	5728.6	6063.1	6158.7
35°	5086.7	5117.5	5231.8	5337.7	5185.7	4962.1	5115.8	5469.1	6136.5	6515.5	6542.8
37.5°	5380.3	5441.8	5578.3	5764.4	5740.5	5542.5	5682.5	5993.1	6457.4	6788.6	6860.3
40°	5716.6	5776.4	6000.0	6268.0	6324.3	6279.9	6326.0	6506.9	6669.1	6800.5	6996.8
42.5°	6085.3	6167.2	6450.6	6809.1	7020.7	7060.0	6952.4	6933.7	6761.3	6664.0	6967.8
45°	6520.6	6616.2	6937.1	7401.4	7737.7	7790.6	7604.5	7363.8	6819.3	6563.3	6880.8
47.5°	7008.8	7099.2	7418.4	7976.6	8476.8	8497.2	8172.9	7785.4	6991.7	6679.3	6947.3
50°	7172.6	7229.0	7505.5	8161.0	9082.7	9239.8	8770.4	8260.0	7338.2	7020.7	7271.7
52.5°	6609.3	6631.5	6872.2	7534.5	8959.8	9968.6	9642.6	8968.4	7954.4	7541.3	7771.8
55°	5237.0	5201.1	5395.7	6003.4	7787.2	9820.1	10432.9	10081.3	8748.2	8152.4	8422.1
57.5°	3663.1	3620.5	3576.1	3987.5	5810.5	8324.8	9613.6	10236.6	9504.4	8758.4	9123.7
60°	3011.1	2970.1	2755.0	2565.6	3512.9	5977.8	7384.3	8557.0	9442.9	8727.7	9101.5
62.5°	2601.4	2577.5	2490.5	2232.7	2067.1	3412.2	4624.2	5747.3	7246.0	6853.4	6873.9
65°	2043.2	2036.4	2096.1	2123.5	1828.2	1887.9	2359.0	2987.2	3917.5	3693.9	3502.7
67.5°	1396.3	1380.9	1493.6	1836.7	1758.2	1490.2	1380.9	1392.9	1695.0	1036.1	822.8
70°	887.6	851.8	853.5	1138.5	1430.4	1176.1	1065.1	937.1	843.2	153.6	174.1
72.5°	568.4	546.2	469.4	513.8	662.3	573.5	578.7	498.4	332.9	81.9	95.6
75°	239.0	220.2	169.0	134.8	133.1	83.6	73.4	68.3	46.1	46.1	49.5
77.5°	1.7	0.0	0.0	1.7	3.4	1.7	1.7	3.4	6.8	10.2	11.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	4905.8	4905.8	4905.8	4905.8	4905.8	4905.8	4905.8	4905.8	4905.8	4905.8	4905.8
2.5°	4933.1	4892.1	4938.2	4955.3	4953.6	4955.3	4905.8	4871.7	4870.0	4827.3	4806.8
5°	4951.9	4919.5	4953.6	4931.4	4878.5	4811.9	4723.2	4646.3	4612.2	4562.7	4538.8
7.5°	4987.7	4953.6	4948.5	4859.7	4728.3	4588.3	4431.3	4291.3	4216.2	4125.7	4130.8
10°	5013.3	4974.1	4907.5	4726.6	4508.1	4284.5	4050.6	3842.4	3710.9	3589.7	3569.3
12.5°	5023.6	4965.5	4810.2	4537.1	4229.8	3938.0	3594.9	3297.8	3093.0	2934.3	2912.1
15°	5042.4	4948.5	4685.6	4308.4	3886.7	3473.7	3036.7	2630.4	2359.0	2176.4	2191.7
17.5°	5071.4	4929.7	4545.6	4052.3	3518.0	2934.3	2343.7	1877.7	1628.4	1522.6	1524.3
20°	5112.3	4907.5	4392.0	3770.7	3075.9	2324.9	1638.7	1287.0	1217.1	1213.6	1208.5
22.5°	5167.0	4885.3	4228.1	3461.7	2551.9	1628.4	1090.7	981.5	1010.5	1066.9	1077.1
25°	5231.8	4858.0	4045.5	3113.5	1980.1	1068.6	817.6	800.6	870.5	945.7	962.7
27.5°	5332.5	4844.4	3837.2	2717.5	1389.5	766.4	669.1	679.4	742.5	805.7	821.0
30°	5503.2	4870.0	3610.2	2273.7	892.7	611.1	580.4	595.7	629.9	662.3	676.0
32.5°	5735.4	4945.1	3390.0	1788.9	636.7	530.9	524.0	532.6	546.2	565.0	570.1
35°	6006.8	5074.8	3163.0	1280.2	525.7	484.8	477.9	477.9	484.8	488.2	489.9
37.5°	6230.4	5211.3	2949.6	851.8	471.1	448.9	438.7	433.6	431.9	435.3	437.0
40°	6327.7	5267.7	2717.5	619.6	431.9	416.5	401.1	385.8	385.8	397.7	399.4
42.5°	6259.4	5204.5	2449.5	512.1	404.5	382.4	358.5	344.8	351.6	363.6	367.0
45°	6114.3	5049.2	2154.2	452.3	377.2	348.2	320.9	312.4	319.2	334.6	338.0
47.5°	6090.4	4946.8	1800.8	413.1	348.2	319.2	290.2	281.6	290.2	302.1	305.5
50°	6327.7	5035.5	1408.2	378.9	320.9	288.5	264.6	256.0	261.2	268.0	271.4
52.5°	6761.3	5365.0	1136.8	346.5	288.5	257.8	242.4	232.1	232.1	239.0	240.7
55°	7401.4	5940.2	981.5	309.0	250.9	233.9	220.2	210.0	210.0	213.4	215.1
57.5°	8138.8	6636.7	1017.3	259.5	220.2	211.7	199.7	191.2	194.6	194.6	194.6
60°	8036.4	6585.5	1089.0	218.5	194.6	191.2	180.9	177.5	186.1	179.2	175.8
62.5°	5919.7	4549.0	570.1	179.2	167.3	163.9	157.0	163.9	175.8	157.0	150.2
65°	2874.5	2202.0	228.7	146.8	141.7	138.3	134.8	145.1	151.9	122.9	116.1
67.5°	676.0	549.6	148.5	124.6	117.8	111.0	114.4	116.1	111.0	83.6	80.2
70°	175.8	172.4	116.1	104.1	93.9	87.1	87.1	85.3	73.4	52.9	49.5
72.5°	95.6	93.9	83.6	78.5	64.9	58.0	59.7	52.9	41.0	30.7	29.0
75°	47.8	51.2	47.8	44.4	35.8	32.4	32.4	29.0	20.5	11.9	11.9
77.5°	10.2	11.9	11.9	10.2	8.5	6.8	6.8	8.5	3.4	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)