

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: P640721

Luminaire Tested: GWS-SA5E-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640721
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-SA5E-740-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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: 24331 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

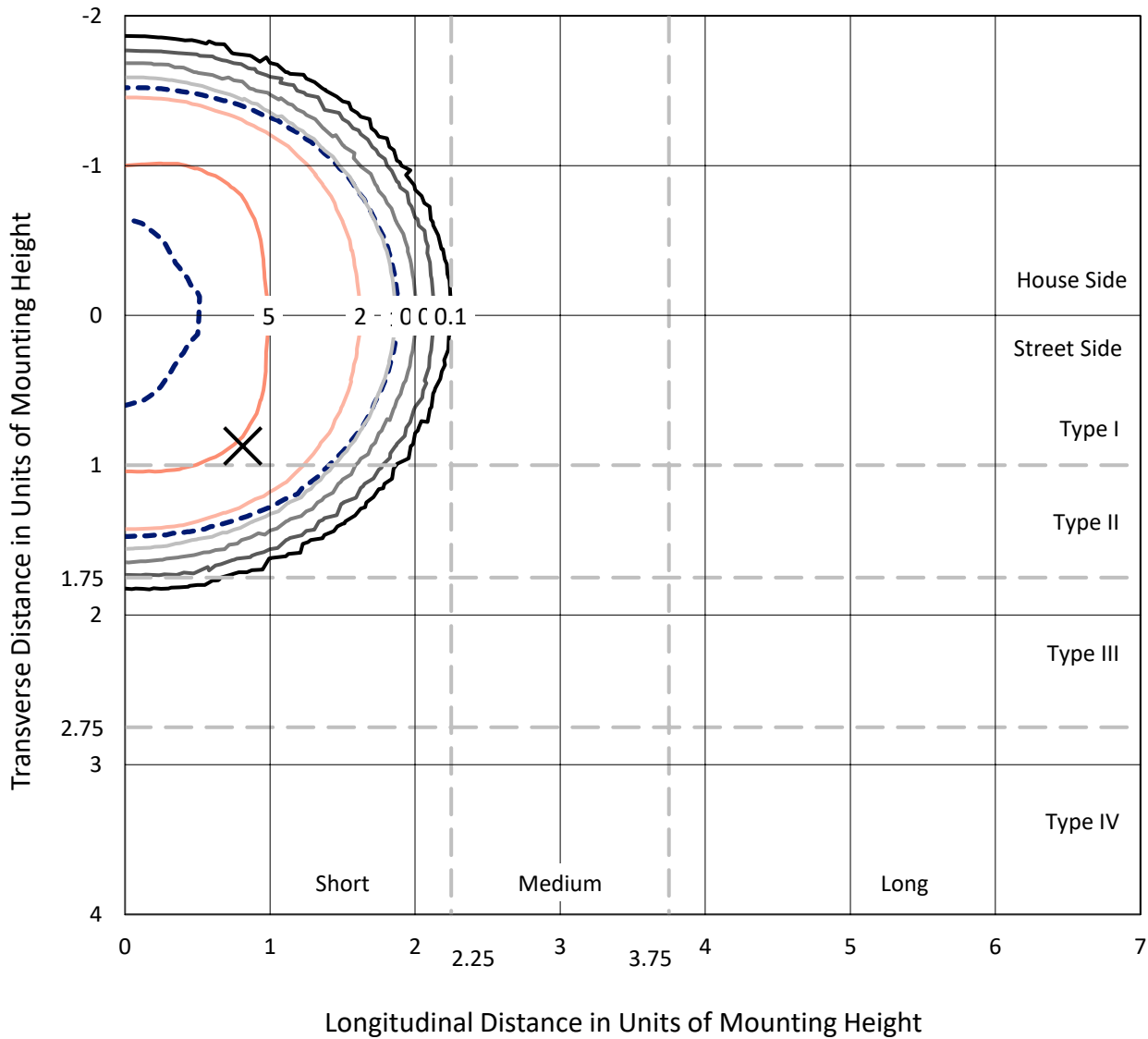
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

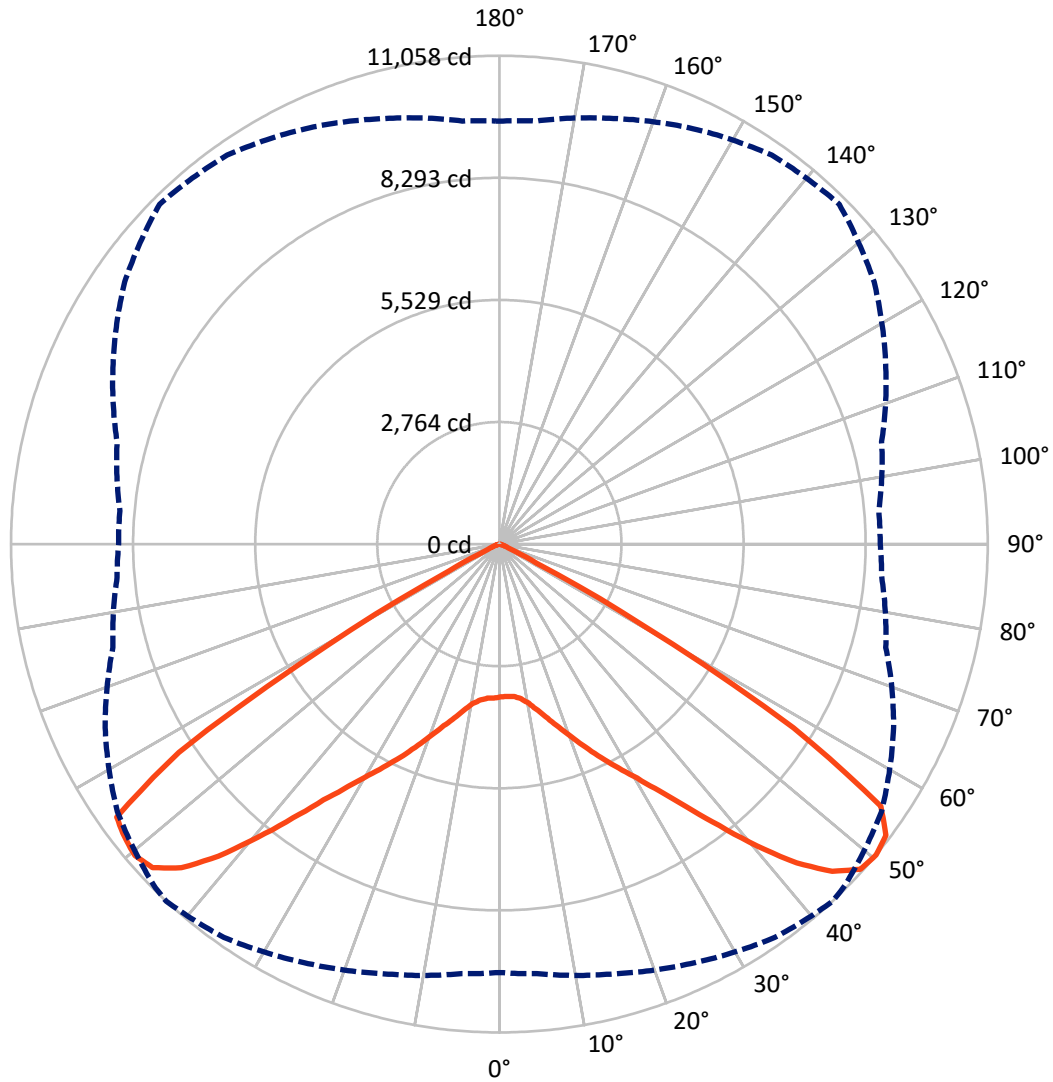
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	12165.2	0.0	12165.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12165.8	0.0	12165.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	24331.0	0.0	24331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.8	1.4
10°-20°	1172.8	4.8
20°-30°	2372.7	9.8
30°-40°	4402.3	18.1
40°-50°	7307.5	30.0
50°-60°	7457.6	30.7
60°-70°	1223.0	5.0
70°-80°	53.5	0.2
80°-90°	0.7	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°	24331.0	100.0
0°-180°	24331.0	100.0

Coefficient of Utilization



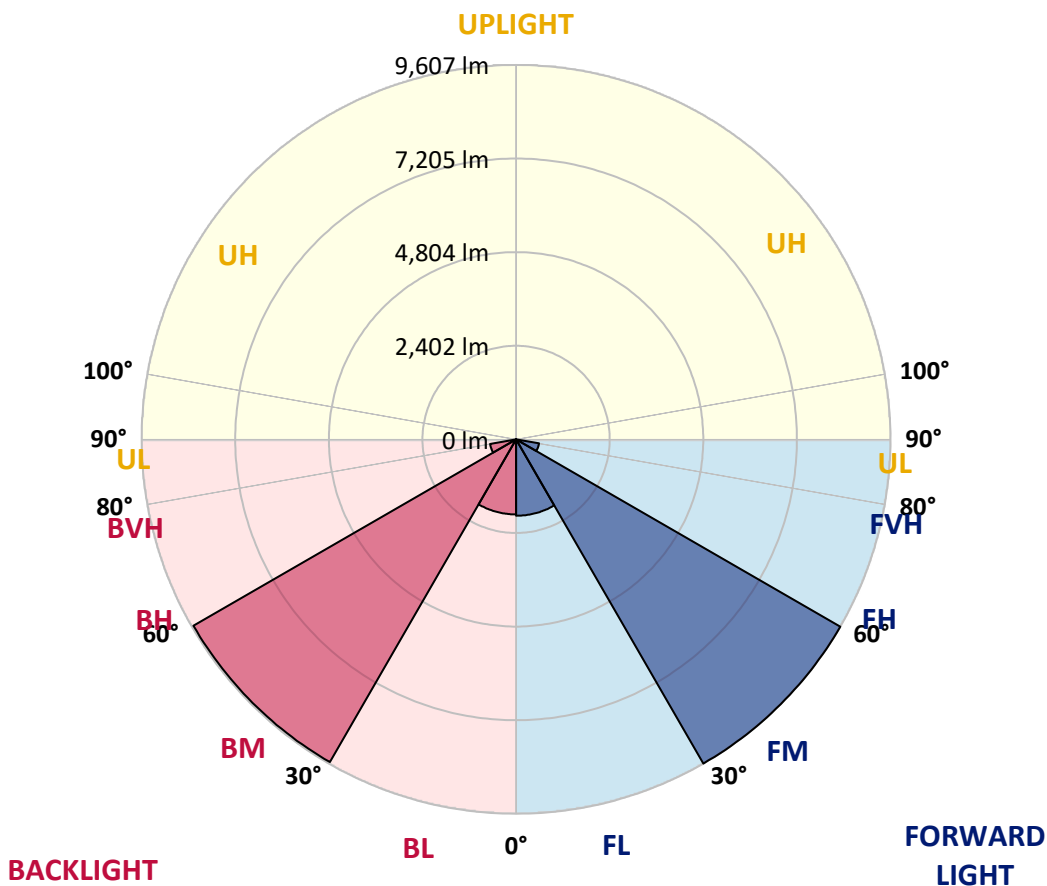
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1960.2	8.1			
FM (30°-60°)	9607.1	39.5			
FH (60°-80°)	598.3	2.5			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	1926.1	7.9	B3/2500		
BM (30°-60°)	9560.4	39.3	B5		
BH (60°-80°)	678.2	2.8	B2/1000		G1/1800
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	3460.7	3460.7	3460.7	3460.7	3460.7	3460.7	3460.7	3460.7	3460.7	3460.7	3460.7
2.5°	3396.1	3404.2	3415.0	3425.7	3439.2	3452.6	3460.7	3484.9	3479.5	3501.1	3501.1
5°	3358.4	3366.5	3380.0	3404.2	3433.8	3463.4	3484.9	3533.4	3560.3	3603.3	3619.5
7.5°	3377.3	3388.0	3404.2	3441.9	3487.6	3533.4	3557.6	3635.6	3689.4	3770.2	3815.9
10°	3439.2	3449.9	3476.8	3541.4	3600.6	3665.2	3694.8	3794.4	3880.5	3990.8	4055.4
12.5°	3509.1	3522.6	3576.4	3673.3	3775.6	3861.7	3902.0	4012.4	4101.2	4225.0	4327.2
15°	3581.8	3603.3	3686.7	3829.4	3974.7	4090.4	4133.5	4251.9	4340.7	4472.5	4588.3
17.5°	3751.3	3775.6	3869.7	4023.1	4222.3	4356.8	4394.5	4518.3	4585.6	4674.4	4795.5
20°	3963.9	4009.7	4125.4	4311.1	4529.0	4658.2	4685.1	4806.2	4800.8	4838.5	4943.5
22.5°	4227.7	4259.9	4386.4	4607.1	4852.0	4994.6	5056.5	5107.6	5040.4	5008.1	5075.3
25°	4502.1	4539.8	4677.1	4919.3	5193.7	5357.9	5409.0	5449.4	5341.7	5220.7	5228.7
27.5°	4857.4	4884.3	5018.8	5277.2	5551.7	5737.3	5783.1	5853.1	5710.4	5516.7	5462.8
30°	5279.9	5306.8	5449.4	5721.2	5993.0	6151.8	6221.7	6307.8	6151.8	5909.6	5847.7
32.5°	5775.0	5801.9	5984.9	6264.8	6488.1	6660.4	6727.6	6819.1	6695.4	6423.6	6353.6
35°	6367.0	6383.2	6598.5	6902.6	7139.4	7306.2	7352.0	7459.6	7322.4	7050.6	7012.9
37.5°	7053.3	7072.1	7306.2	7658.7	7900.9	8086.6	8159.3	8188.9	8022.0	7718.0	7688.4
40°	7806.8	7868.7	8097.4	8476.8	8748.6	8982.7	9047.3	8947.8	8713.6	8299.2	8245.4
42.5°	8592.5	8646.4	8902.0	9313.7	9628.6	9868.1	9870.8	9655.5	9257.2	8684.0	8603.3
45°	9246.5	9268.0	9599.0	10013.4	10400.9	10570.5	10586.6	10196.4	9596.3	8907.4	8735.2
47.5°	9695.9	9730.9	10018.8	10417.1	10845.0	10998.4	10966.1	10479.0	9757.8	9052.7	8767.5
50°	9701.3	9760.5	10072.6	10457.4	10871.9	11057.6	11011.8	10559.7	9849.3	9058.1	8689.4
52.5°	8842.8	8939.7	9448.3	10005.4	10640.4	10958.0	10968.8	10664.7	9814.3	8972.0	8619.5
55°	6671.1	6776.1	7416.6	8366.5	9593.6	10479.0	10632.4	10540.9	9773.9	9009.7	8743.2
57.5°	3530.7	3449.9	3805.2	4747.0	6289.0	7855.2	8304.6	9036.6	9324.5	9055.4	8972.0
60°	769.6	820.8	1092.6	1472.0	2454.2	3694.8	4133.5	5387.5	6878.3	7540.3	8019.4
62.5°	331.0	325.6	339.1	384.8	562.4	936.5	1143.7	1867.6	2946.7	4047.4	4792.8
65°	271.8	274.5	285.3	285.3	266.4	269.1	282.6	427.9	688.9	966.1	1297.1
67.5°	204.5	207.2	226.0	231.4	218.0	193.8	191.1	161.5	169.5	212.6	220.7
70°	129.2	129.2	139.9	145.3	145.3	134.6	131.9	115.7	113.0	129.2	145.3
72.5°	70.0	70.0	75.3	78.0	75.3	72.7	72.7	70.0	67.3	78.0	99.6
75°	29.6	29.6	32.3	32.3	29.6	29.6	29.6	29.6	29.6	35.0	53.8
77.5°	5.4	8.1	10.8	8.1	5.4	5.4	5.4	8.1	8.1	10.8	16.1
80°	2.7	2.7	5.4	2.7	0.0	0.0	0.0	0.0	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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°	3460.7	3460.7	3460.7	3460.7	3460.7	3460.7	3460.7	3460.7	3460.7	3460.7	3460.7
2.5°	3519.9	3490.3	3501.1	3506.4	3498.4	3493.0	3463.4	3455.3	3441.9	3420.3	3415.0
5°	3638.3	3614.1	3611.4	3595.3	3557.6	3511.8	3455.3	3431.1	3404.2	3377.3	3371.9
7.5°	3837.4	3807.8	3789.0	3735.2	3649.1	3576.4	3482.2	3431.1	3396.1	3361.1	3353.1
10°	4093.1	4058.1	4004.3	3904.7	3789.0	3684.1	3573.7	3506.4	3452.6	3404.2	3401.5
12.5°	4364.9	4327.2	4230.3	4103.9	3963.9	3867.0	3727.1	3632.9	3552.2	3479.5	3471.5
15°	4650.1	4604.4	4472.5	4321.8	4192.7	4093.1	3939.7	3789.0	3665.2	3560.3	3549.5
17.5°	4868.1	4811.6	4655.5	4542.5	4437.6	4335.3	4163.1	3963.9	3799.8	3673.3	3643.7
20°	5005.4	4951.5	4803.5	4741.6	4693.2	4620.5	4416.0	4208.8	4025.8	3869.7	3842.8
22.5°	5137.2	5072.6	4943.5	4943.5	4981.1	4951.5	4730.9	4494.1	4278.8	4098.5	4058.1
25°	5285.2	5234.1	5142.6	5218.0	5312.1	5309.5	5083.4	4787.4	4539.8	4338.0	4297.6
27.5°	5500.5	5449.4	5417.1	5559.7	5678.1	5670.1	5422.5	5102.2	4841.2	4642.1	4604.4
30°	5880.0	5831.5	5796.5	5968.8	6119.5	6063.0	5791.2	5481.7	5218.0	4991.9	4965.0
32.5°	6385.9	6334.7	6289.0	6461.2	6595.8	6523.1	6264.8	5974.1	5670.1	5449.4	5395.6
35°	7050.6	6942.9	6897.2	7101.7	7158.2	7077.5	6829.9	6574.3	6251.3	5998.4	5963.4
37.5°	7736.8	7610.3	7578.0	7755.6	7847.1	7817.5	7526.9	7260.5	6910.6	6630.8	6590.4
40°	8323.4	8207.7	8151.2	8428.4	8635.6	8654.4	8393.4	8067.8	7656.1	7365.4	7292.8
42.5°	8667.9	8568.3	8554.9	8985.4	9324.5	9566.7	9254.5	8918.2	8484.9	8156.6	8097.4
45°	8745.9	8681.4	8794.4	9359.5	9886.9	10328.3	10061.9	9706.6	9238.4	8891.3	8834.7
47.5°	8737.9	8716.3	8918.2	9553.3	10220.6	10764.2	10632.4	10231.4	9779.3	9416.0	9362.2
50°	8622.1	8624.8	8961.2	9650.1	10355.2	10882.6	10750.8	10379.4	9975.8	9617.8	9574.8
52.5°	8576.4	8560.3	8880.5	9620.5	10492.4	10828.8	10532.8	10115.7	9666.3	9224.9	9160.4
55°	8737.9	8697.5	8891.3	9596.3	10508.6	10799.2	10018.8	9114.6	8194.3	7672.2	7629.1
57.5°	8980.1	8937.0	9028.5	9418.7	9666.3	8980.1	7373.5	5914.9	4967.7	4566.7	4391.8
60°	8019.4	7989.7	7919.8	7448.8	6388.6	4819.7	3283.1	2093.6	1504.3	1216.4	1216.4
62.5°	4975.8	4935.4	4556.0	3385.4	2459.6	1423.6	783.1	489.8	371.4	347.1	344.5
65°	1396.7	1388.6	1149.1	812.7	516.7	320.2	282.6	287.9	282.6	274.5	271.8
67.5°	209.9	231.4	231.4	188.4	180.3	201.8	236.8	253.0	239.5	226.0	220.7
70°	134.6	145.3	139.9	121.1	129.2	150.7	169.5	172.2	164.2	150.7	148.0
72.5°	94.2	105.0	86.1	78.0	80.7	88.8	96.9	96.9	94.2	88.8	83.4
75°	56.5	56.5	40.4	37.7	37.7	40.4	40.4	45.7	45.7	43.1	40.4
77.5°	18.8	21.5	13.5	10.8	10.8	10.8	13.5	16.1	16.1	13.5	10.8
80°	2.7	5.4	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4	2.7
82.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
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)