

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: P640831

Luminaire Tested: GWS-SA5E-760-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640831
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24547.4 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

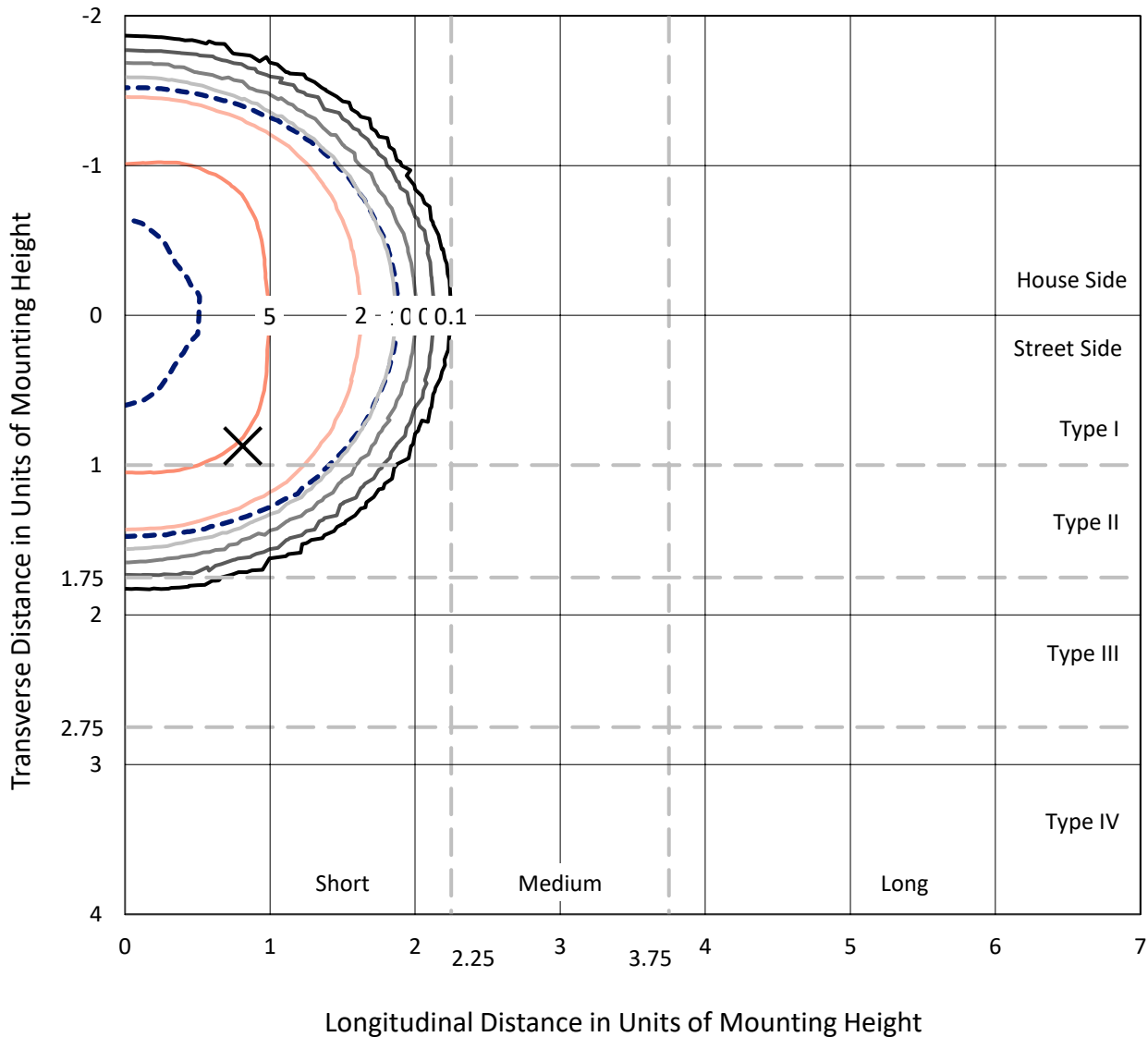
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

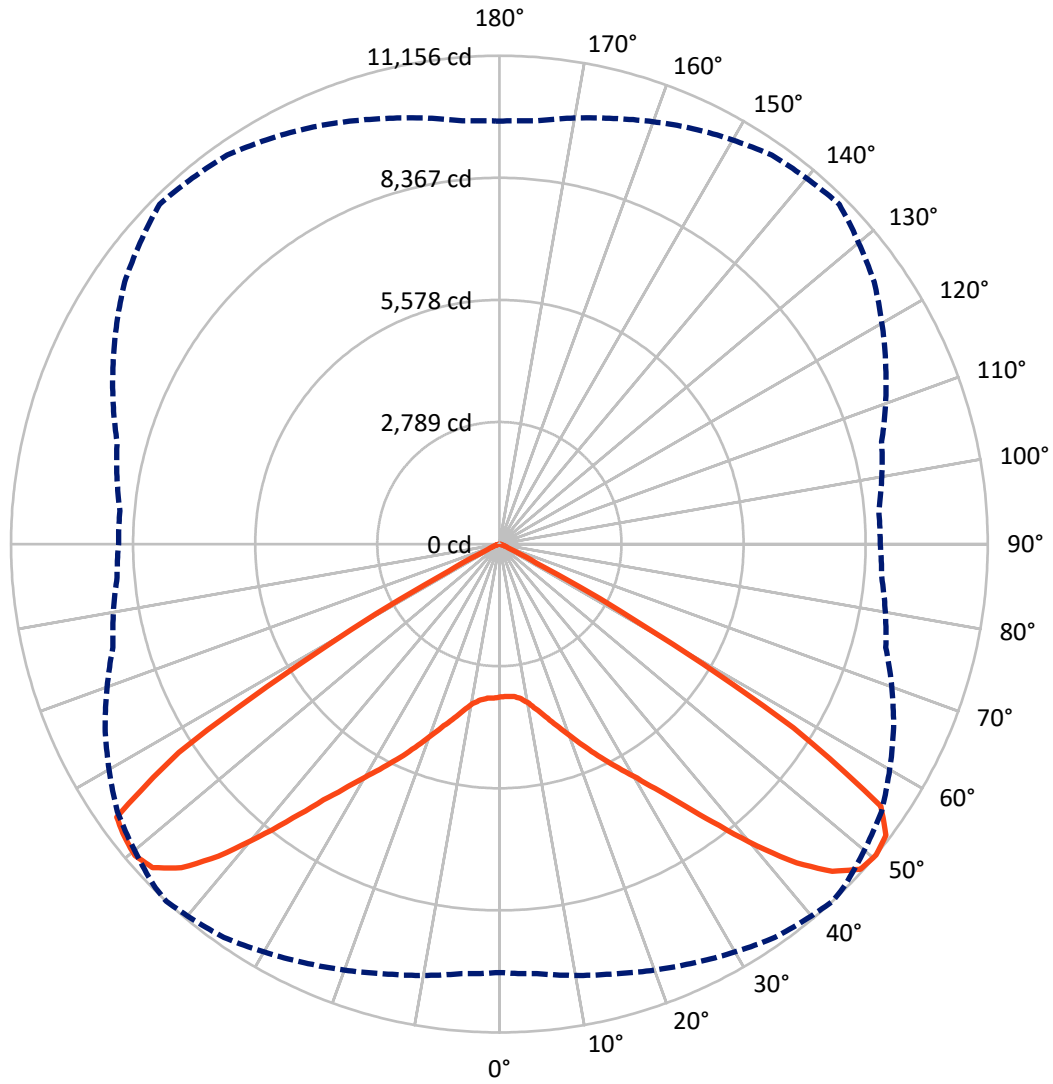
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	12273.4	0.0	12273.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12274.0	0.0	12274.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24547.4	0.0	24547.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.8	1.4
10°-20°	1183.2	4.8
20°-30°	2393.8	9.8
30°-40°	4441.4	18.1
40°-50°	7372.5	30.0
50°-60°	7524.0	30.7
60°-70°	1233.8	5.0
70°-80°	54.0	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°	24547.4	100.0
0°-180°	24547.4	100.0

Coefficient of Utilization



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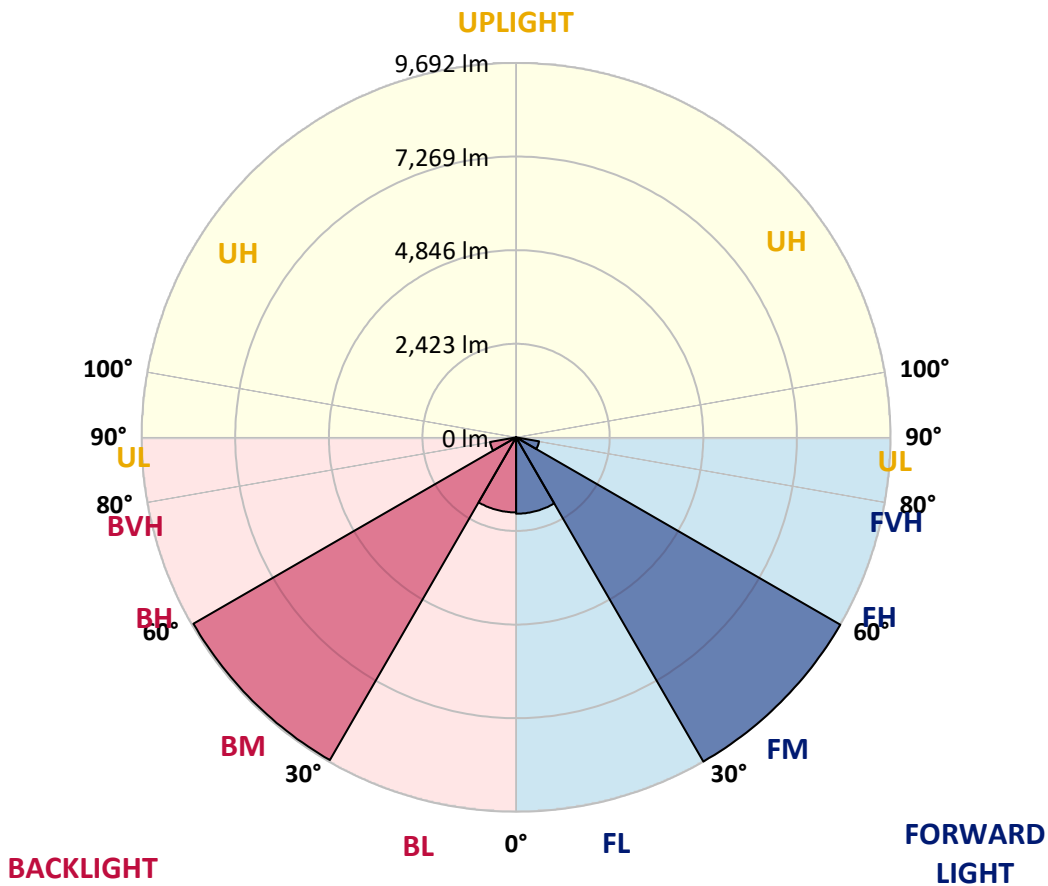
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1977.6	8.1			
FM (30°-60°)	9692.5	39.5			
FH (60°-80°)	603.6	2.5			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	1943.3	7.9	B3/2500		
BM (30°-60°)	9645.4	39.3	B5		
BH (60°-80°)	684.3	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°	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5
2.5°	3426.3	3434.5	3445.3	3456.2	3469.8	3483.3	3491.5	3515.9	3510.5	3532.2	3532.2
5°	3388.3	3396.5	3410.0	3434.5	3464.3	3494.2	3515.9	3564.8	3591.9	3635.4	3651.7
7.5°	3407.3	3418.2	3434.5	3472.5	3518.6	3564.8	3589.2	3668.0	3722.3	3803.7	3849.9
10°	3469.8	3480.6	3507.8	3572.9	3632.7	3697.8	3727.7	3828.1	3915.0	4026.3	4091.5
12.5°	3540.3	3553.9	3608.2	3706.0	3809.1	3896.0	3936.7	4048.1	4137.6	4262.5	4365.7
15°	3613.7	3635.4	3719.5	3863.4	4010.0	4126.8	4170.2	4289.7	4379.3	4512.3	4629.1
17.5°	3784.7	3809.1	3904.2	4058.9	4259.8	4395.6	4433.6	4558.5	4626.3	4715.9	4838.1
20°	3999.2	4045.3	4162.1	4349.4	4569.3	4699.7	4726.8	4849.0	4843.5	4881.6	4987.4
22.5°	4265.3	4297.8	4425.4	4648.1	4895.1	5039.0	5101.5	5153.1	5085.2	5052.6	5120.5
25°	4542.2	4580.2	4718.7	4963.0	5239.9	5405.5	5457.1	5497.9	5389.3	5267.1	5275.2
27.5°	4900.6	4927.7	5063.5	5324.1	5601.0	5788.4	5834.5	5905.1	5761.2	5565.7	5511.4
30°	5326.8	5354.0	5497.9	5772.1	6046.3	6206.5	6277.1	6363.9	6206.5	5962.1	5899.7
32.5°	5826.4	5853.5	6038.1	6320.5	6545.8	6719.6	6787.5	6879.8	6754.9	6480.7	6410.1
35°	6423.7	6440.0	6657.2	6964.0	7202.9	7371.2	7417.4	7526.0	7387.5	7113.3	7075.3
37.5°	7116.0	7135.0	7371.2	7726.9	7971.2	8158.6	8231.9	8261.7	8093.4	7786.6	7756.7
40°	7876.2	7938.6	8169.4	8552.2	8826.4	9062.6	9127.8	9027.3	8791.1	8373.0	8318.7
42.5°	8669.0	8723.3	8981.2	9396.6	9714.2	9955.9	9958.6	9741.4	9339.6	8761.3	8679.8
45°	9328.7	9350.4	9684.4	10102.5	10493.4	10664.5	10680.8	10287.1	9681.7	8986.6	8812.9
47.5°	9782.1	9817.4	10107.9	10509.7	10941.4	11096.2	11063.6	10572.2	9844.6	9133.2	8845.4
50°	9787.5	9847.3	10162.2	10550.5	10968.6	11155.9	11109.7	10653.6	9936.9	9138.7	8766.7
52.5°	8921.5	9019.2	9532.3	10094.3	10735.1	11055.4	11066.3	10759.5	9901.6	9051.8	8696.1
55°	6730.5	6836.3	7482.5	8440.9	9678.9	10572.2	10726.9	10634.6	9860.9	9089.8	8821.0
57.5°	3562.1	3480.6	3839.0	4789.2	6344.9	7925.1	8378.5	9116.9	9407.4	9135.9	9051.8
60°	776.5	828.1	1102.3	1485.1	2476.1	3727.7	4170.2	5435.4	6939.5	7607.4	8090.7
62.5°	333.9	328.5	342.1	388.2	567.4	944.8	1153.9	1884.2	2972.9	4083.3	4835.4
65°	274.2	276.9	287.8	287.8	268.8	271.5	285.1	431.7	695.0	974.7	1308.6
67.5°	206.3	209.1	228.1	233.5	219.9	195.5	192.8	162.9	171.0	214.5	222.6
70°	130.3	130.3	141.2	146.6	146.6	135.7	133.0	116.7	114.0	130.3	146.6
72.5°	70.6	70.6	76.0	78.7	76.0	73.3	73.3	70.6	67.9	78.7	100.5
75°	29.9	29.9	32.6	32.6	29.9	29.9	29.9	29.9	29.9	35.3	54.3
77.5°	5.4	8.1	10.9	8.1	5.4	5.4	5.4	8.1	8.1	10.9	16.3
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°	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5	3491.5
2.5°	3551.2	3521.3	3532.2	3537.6	3529.5	3524.1	3494.2	3486.0	3472.5	3450.8	3445.3
5°	3670.7	3646.2	3643.5	3627.2	3589.2	3543.1	3486.0	3461.6	3434.5	3407.3	3401.9
7.5°	3871.6	3841.7	3822.7	3768.4	3681.5	3608.2	3513.2	3461.6	3426.3	3391.0	3382.9
10°	4129.5	4094.2	4039.9	3939.5	3822.7	3716.8	3605.5	3537.6	3483.3	3434.5	3431.7
12.5°	4403.7	4365.7	4268.0	4140.4	3999.2	3901.4	3760.3	3665.2	3583.8	3510.5	3502.3
15°	4691.5	4645.4	4512.3	4360.3	4230.0	4129.5	3974.7	3822.7	3697.8	3591.9	3581.1
17.5°	4911.4	4854.4	4696.9	4582.9	4477.0	4373.9	4200.1	3999.2	3833.6	3706.0	3676.1
20°	5049.9	4995.6	4846.3	4783.8	4734.9	4661.6	4455.3	4246.2	4061.6	3904.2	3877.0
22.5°	5182.9	5117.8	4987.4	4987.4	5025.4	4995.6	4773.0	4534.0	4316.8	4134.9	4094.2
25°	5332.2	5280.7	5188.3	5264.4	5359.4	5356.7	5128.6	4830.0	4580.2	4376.6	4335.8
27.5°	5549.4	5497.9	5465.3	5609.2	5728.6	5720.5	5470.7	5147.6	4884.3	4683.4	4645.4
30°	5932.3	5883.4	5848.1	6021.9	6173.9	6116.9	5842.7	5530.4	5264.4	5036.3	5009.2
32.5°	6442.7	6391.1	6344.9	6518.7	6654.4	6581.1	6320.5	6027.3	5720.5	5497.9	5443.6
35°	7113.3	7004.7	6958.5	7164.9	7221.9	7140.4	6890.6	6632.7	6306.9	6051.7	6016.4
37.5°	7805.6	7678.0	7645.4	7824.6	7916.9	7887.1	7593.8	7325.0	6972.1	6689.7	6649.0
40°	8397.5	8280.7	8223.7	8503.4	8712.4	8731.4	8468.1	8139.5	7724.2	7430.9	7357.6
42.5°	8745.0	8644.5	8631.0	9065.4	9407.4	9651.8	9336.9	8997.5	8560.4	8229.1	8169.4
45°	8823.7	8758.6	8872.6	9442.7	9974.9	10420.1	10151.4	9793.0	9320.6	8970.3	8913.3
47.5°	8815.6	8793.9	8997.5	9638.2	10311.5	10860.0	10726.9	10322.4	9866.3	9499.8	9445.5
50°	8698.8	8701.5	9040.9	9736.0	10447.3	10979.4	10846.4	10471.7	10064.5	9703.4	9659.9
52.5°	8652.7	8636.4	8959.5	9706.1	10585.8	10925.1	10626.5	10205.7	9752.3	9307.0	9241.8
55°	8815.6	8774.9	8970.3	9681.7	10602.0	10895.3	10107.9	9195.7	8267.1	7740.4	7697.0
57.5°	9059.9	9016.5	9108.8	9502.5	9752.3	9059.9	7439.1	5967.6	5011.9	4607.3	4430.9
60°	8090.7	8060.8	7990.2	7515.1	6445.4	4862.6	3312.3	2112.3	1517.7	1227.2	1227.2
62.5°	5020.0	4979.3	4596.5	3415.5	2481.5	1436.2	790.1	494.1	374.7	350.2	347.5
65°	1409.1	1400.9	1159.3	819.9	521.3	323.1	285.1	290.5	285.1	276.9	274.2
67.5°	211.8	233.5	233.5	190.0	181.9	203.6	238.9	255.2	241.6	228.1	222.6
70°	135.7	146.6	141.2	122.2	130.3	152.0	171.0	173.8	165.6	152.0	149.3
72.5°	95.0	105.9	86.9	78.7	81.4	89.6	97.7	97.7	95.0	89.6	84.2
75°	57.0	57.0	40.7	38.0	38.0	40.7	40.7	46.2	46.2	43.4	40.7
77.5°	19.0	21.7	13.6	10.9	10.9	10.9	13.6	16.3	16.3	13.6	10.9
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)