

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: P640776

Luminaire Tested: GWS-SA5E-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640776
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24888.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

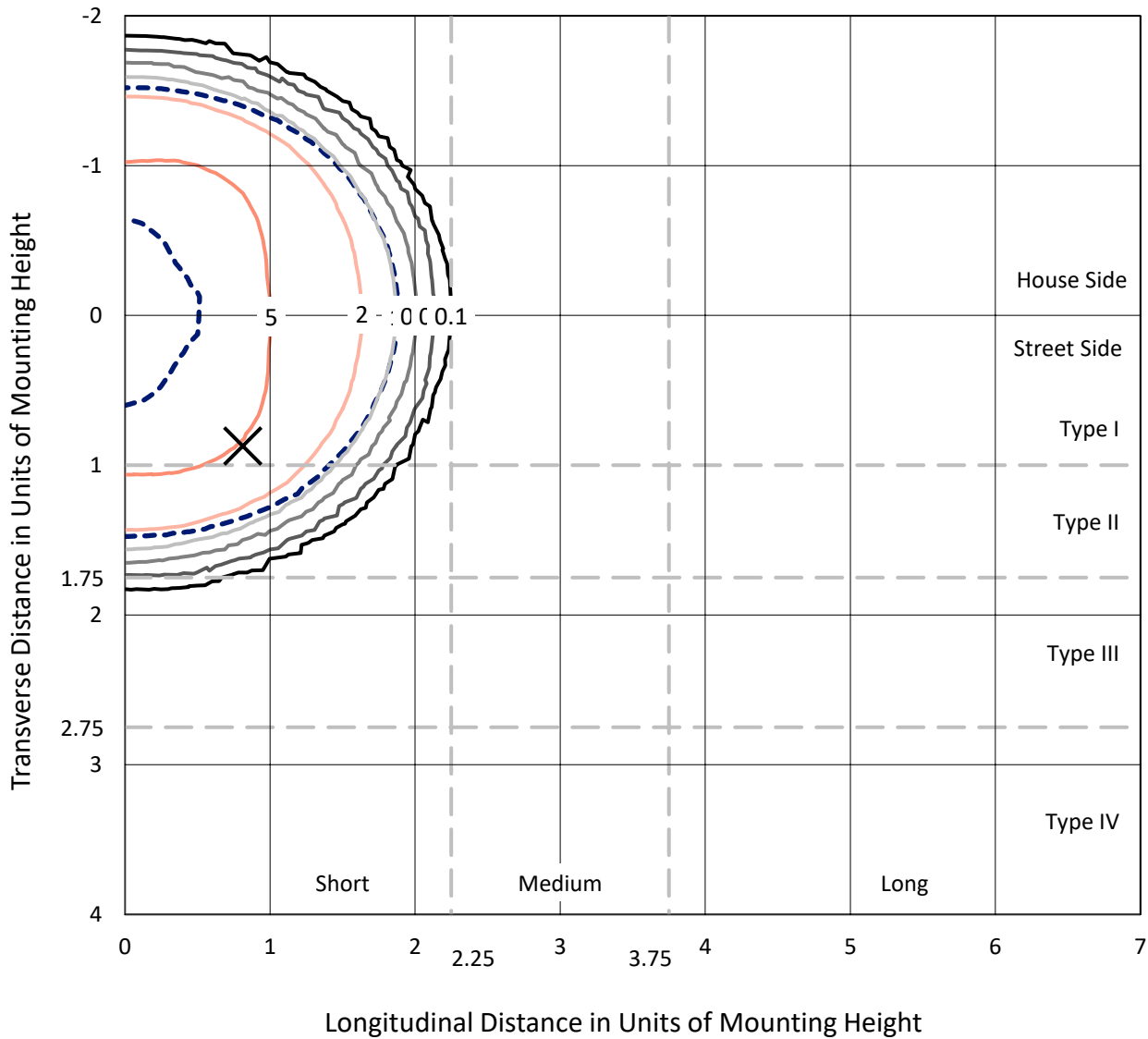
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

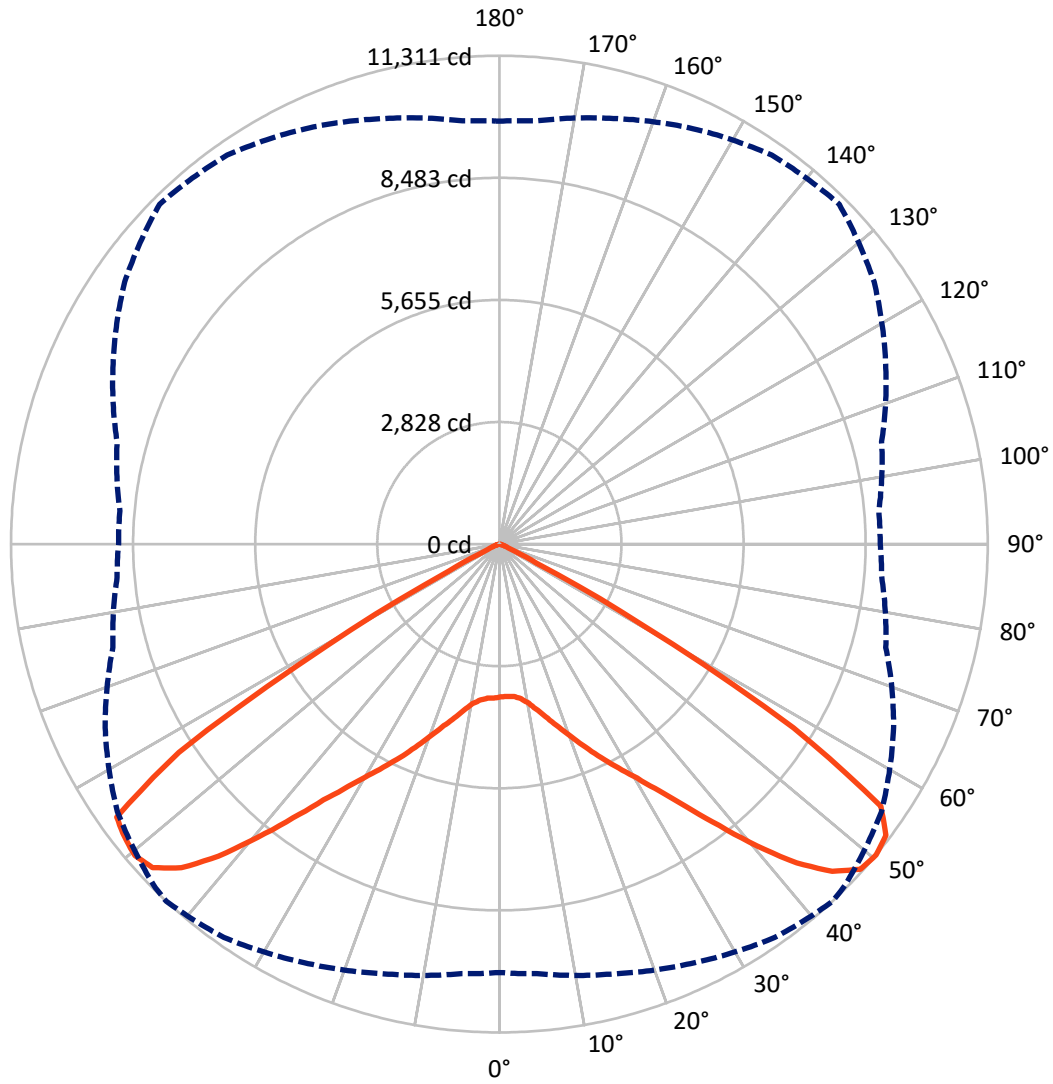
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	12443.9	0.0	12443.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12444.6	0.0	12444.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	24888.5	0.0	24888.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.6	1.4
10°-20°	1199.7	4.8
20°-30°	2427.1	9.8
30°-40°	4503.1	18.1
40°-50°	7475.0	30.0
50°-60°	7628.5	30.7
60°-70°	1251.0	5.0
70°-80°	54.8	0.2
80°-90°	0.8	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°	24888.5	100.0
0°-180°	24888.5	100.0

Coefficient of Utilization



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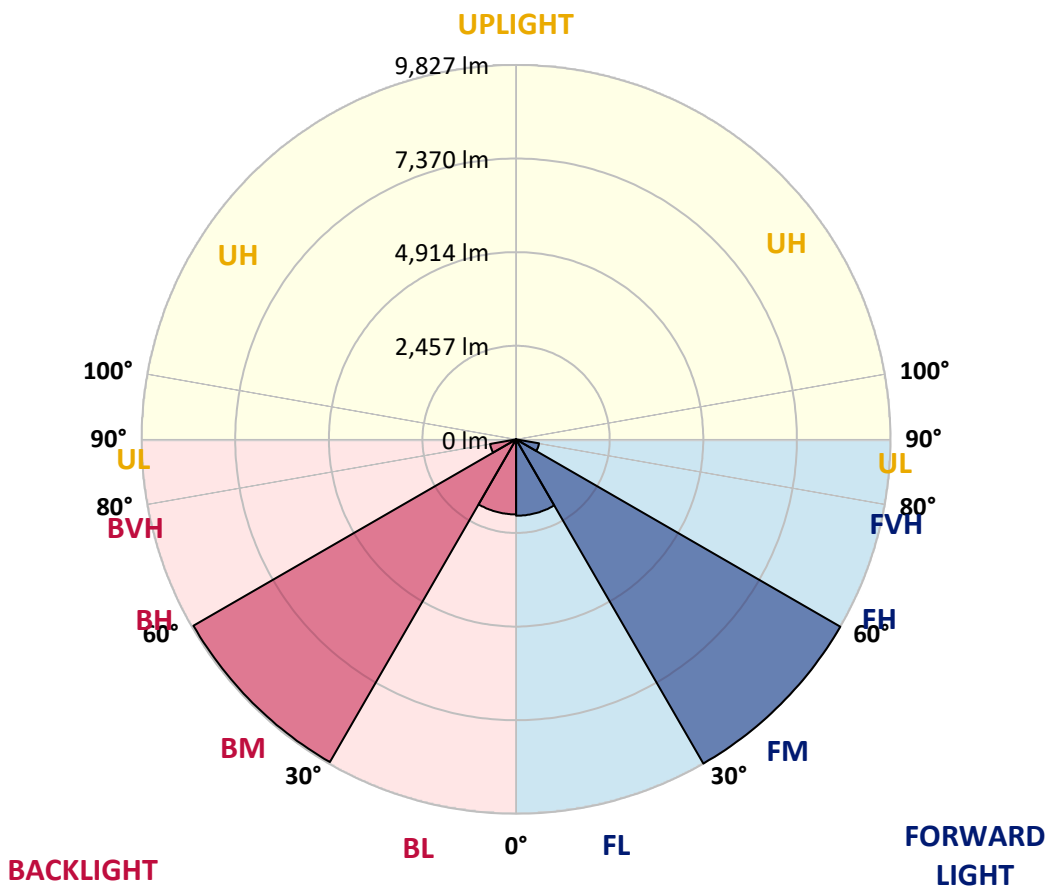
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2005.1	8.1			
FM (30°-60°)	9827.2	39.5			
FH (60°-80°)	612.0	2.5			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	1970.3	7.9	B3/2500		
BM (30°-60°)	9779.4	39.3	B5		
BH (60°-80°)	693.8	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°	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0
2.5°	3473.9	3482.2	3493.2	3504.2	3518.0	3531.7	3540.0	3564.8	3559.3	3581.3	3581.3
5°	3435.4	3443.7	3457.4	3482.2	3512.5	3542.7	3564.8	3614.3	3641.8	3685.9	3702.4
7.5°	3454.7	3465.7	3482.2	3520.7	3567.5	3614.3	3639.1	3718.9	3774.0	3856.6	3903.4
10°	3518.0	3529.0	3556.5	3622.6	3683.1	3749.2	3779.5	3881.3	3969.4	4082.3	4148.3
12.5°	3589.5	3603.3	3658.4	3757.5	3862.1	3950.2	3991.4	4104.3	4195.1	4321.8	4426.4
15°	3663.9	3685.9	3771.2	3917.1	4065.8	4184.1	4228.2	4349.3	4440.1	4575.0	4693.4
17.5°	3837.3	3862.1	3958.4	4115.3	4319.0	4456.7	4495.2	4621.8	4690.6	4781.5	4905.3
20°	4054.8	4101.5	4219.9	4409.9	4632.8	4765.0	4792.5	4916.4	4910.8	4949.4	5056.7
22.5°	4324.5	4357.6	4486.9	4712.7	4963.2	5109.0	5172.4	5224.7	5155.8	5122.8	5191.6
25°	4605.3	4643.8	4784.2	5032.0	5312.7	5480.7	5533.0	5574.3	5464.1	5340.3	5348.5
27.5°	4968.7	4996.2	5133.8	5398.1	5678.9	5868.8	5915.6	5987.2	5841.3	5643.1	5588.0
30°	5400.8	5428.4	5574.3	5852.3	6130.3	6292.7	6364.3	6452.4	6292.7	6045.0	5981.7
32.5°	5907.3	5934.9	6122.0	6408.3	6636.8	6813.0	6881.8	6975.4	6848.8	6570.7	6499.2
35°	6512.9	6529.4	6749.7	7060.7	7303.0	7473.6	7520.4	7630.5	7490.1	7212.1	7173.6
37.5°	7214.9	7234.1	7473.6	7834.2	8082.0	8271.9	8346.2	8376.5	8205.9	7894.8	7864.5
40°	7985.6	8048.9	8282.9	8671.1	8949.1	9188.6	9254.6	9152.8	8913.3	8489.4	8434.3
42.5°	8789.4	8844.5	9106.0	9527.2	9849.2	10094.2	10097.0	9876.8	9469.4	8883.0	8800.4
45°	9458.3	9480.4	9818.9	10242.9	10639.3	10812.7	10829.2	10430.0	9816.2	9111.5	8935.3
47.5°	9918.0	9953.8	10248.4	10655.8	11093.5	11250.4	11217.3	10719.1	9981.4	9260.1	8968.4
50°	9923.5	9984.1	10303.4	10697.1	11121.0	11310.9	11264.1	10801.7	10074.9	9265.6	8888.5
52.5°	9045.4	9144.5	9664.8	10234.6	10884.2	11209.1	11220.1	10909.0	10039.2	9177.6	8817.0
55°	6824.0	6931.3	7586.5	8558.2	9813.4	10719.1	10876.0	10782.4	9997.9	9216.1	8943.6
57.5°	3611.6	3529.0	3892.3	4855.8	6433.1	8035.2	8494.9	9243.6	9538.2	9262.9	9177.6
60°	787.3	839.6	1117.6	1505.7	2510.5	3779.5	4228.2	5510.9	7035.9	7713.1	8203.1
62.5°	338.6	333.1	346.8	393.6	575.3	957.9	1169.9	1910.4	3014.2	4140.1	4902.6
65°	278.0	280.8	291.8	291.8	272.5	275.3	289.0	437.7	704.7	988.2	1326.8
67.5°	209.2	212.0	231.2	236.7	223.0	198.2	195.4	165.2	173.4	217.5	225.7
70°	132.1	132.1	143.1	148.6	148.6	137.6	134.9	118.4	115.6	132.1	148.6
72.5°	71.6	71.6	77.1	79.8	77.1	74.3	74.3	71.6	68.8	79.8	101.9
75°	30.3	30.3	33.0	33.0	30.3	30.3	30.3	30.3	30.3	35.8	55.1
77.5°	5.5	8.3	11.0	8.3	5.5	5.5	5.5	8.3	8.3	11.0	16.5
80°	2.8	2.8	5.5	2.8	0.0	0.0	0.0	0.0	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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°	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0
2.5°	3600.6	3570.3	3581.3	3586.8	3578.5	3573.0	3542.7	3534.5	3520.7	3498.7	3493.2
5°	3721.7	3696.9	3694.1	3677.6	3639.1	3592.3	3534.5	3509.7	3482.2	3454.7	3449.2
7.5°	3925.4	3895.1	3875.8	3820.8	3732.7	3658.4	3562.0	3509.7	3473.9	3438.1	3429.9
10°	4186.9	4151.1	4096.0	3994.2	3875.8	3768.5	3655.6	3586.8	3531.7	3482.2	3479.4
12.5°	4464.9	4426.4	4327.3	4197.9	4054.8	3955.7	3812.5	3716.2	3633.6	3559.3	3551.0
15°	4756.7	4709.9	4575.0	4420.9	4288.7	4186.9	4030.0	3875.8	3749.2	3641.8	3630.8
17.5°	4979.7	4921.9	4762.2	4646.6	4539.2	4434.6	4258.5	4054.8	3886.8	3757.5	3727.2
20°	5120.1	5065.0	4913.6	4850.3	4800.7	4726.4	4517.2	4305.3	4118.1	3958.4	3930.9
22.5°	5254.9	5188.9	5056.7	5056.7	5095.3	5065.0	4839.3	4597.0	4376.8	4192.4	4151.1
25°	5406.3	5354.0	5260.4	5337.5	5433.9	5431.1	5199.9	4897.1	4643.8	4437.4	4396.1
27.5°	5626.6	5574.3	5541.2	5687.1	5808.2	5800.0	5546.7	5219.2	4952.1	4748.4	4709.9
30°	6014.7	5965.1	5929.4	6105.5	6259.7	6201.9	5923.8	5607.3	5337.5	5106.3	5078.8
32.5°	6532.2	6479.9	6433.1	6609.3	6746.9	6672.6	6408.3	6111.0	5800.0	5574.3	5519.2
35°	7212.1	7102.0	7055.2	7264.4	7322.2	7239.6	6986.4	6724.9	6394.6	6135.8	6100.0
37.5°	7914.1	7784.7	7751.7	7933.3	8026.9	7996.6	7699.4	7426.8	7069.0	6782.7	6741.4
40°	8514.2	8395.8	8338.0	8621.5	8833.5	8852.7	8585.7	8252.6	7831.5	7534.2	7459.9
42.5°	8866.5	8764.7	8750.9	9191.3	9538.2	9785.9	9466.6	9122.5	8679.3	8343.5	8282.9
45°	8946.3	8880.3	8995.9	9574.0	10113.5	10564.9	10292.4	9929.1	9450.1	9095.0	9037.2
47.5°	8938.1	8916.1	9122.5	9772.1	10454.8	11010.9	10876.0	10465.8	10003.4	9631.8	9576.7
50°	8819.7	8822.5	9166.6	9871.2	10592.5	11132.0	10997.1	10617.2	10204.3	9838.2	9794.2
52.5°	8772.9	8756.4	9084.0	9841.0	10732.8	11076.9	10774.1	10347.5	9887.8	9436.3	9370.3
55°	8938.1	8896.8	9095.0	9816.2	10749.4	11046.7	10248.4	9323.5	8382.0	7848.0	7804.0
57.5°	9185.8	9141.8	9235.4	9634.5	9887.8	9185.8	7542.4	6050.5	5081.5	4671.4	4492.4
60°	8203.1	8172.8	8101.2	7619.5	6535.0	4930.1	3358.3	2141.6	1538.8	1244.2	1244.2
62.5°	5089.8	5048.5	4660.4	3462.9	2516.0	1456.2	801.0	501.0	379.9	355.1	352.3
65°	1428.7	1420.4	1175.4	831.3	528.5	327.6	289.0	294.5	289.0	280.8	278.0
67.5°	214.7	236.7	236.7	192.7	184.4	206.5	242.2	258.8	245.0	231.2	225.7
70°	137.6	148.6	143.1	123.9	132.1	154.2	173.4	176.2	167.9	154.2	151.4
72.5°	96.3	107.4	88.1	79.8	82.6	90.8	99.1	99.1	96.3	90.8	85.3
75°	57.8	57.8	41.3	38.5	38.5	41.3	41.3	46.8	46.8	44.0	41.3
77.5°	19.3	22.0	13.8	11.0	11.0	11.0	13.8	16.5	16.5	13.8	11.0
80°	2.8	5.5	2.8	2.8	2.8	2.8	2.8	2.8	5.5	5.5	2.8
82.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
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)