

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: P637817

Luminaire Tested: GWS-SA4D-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-750-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19737.3 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

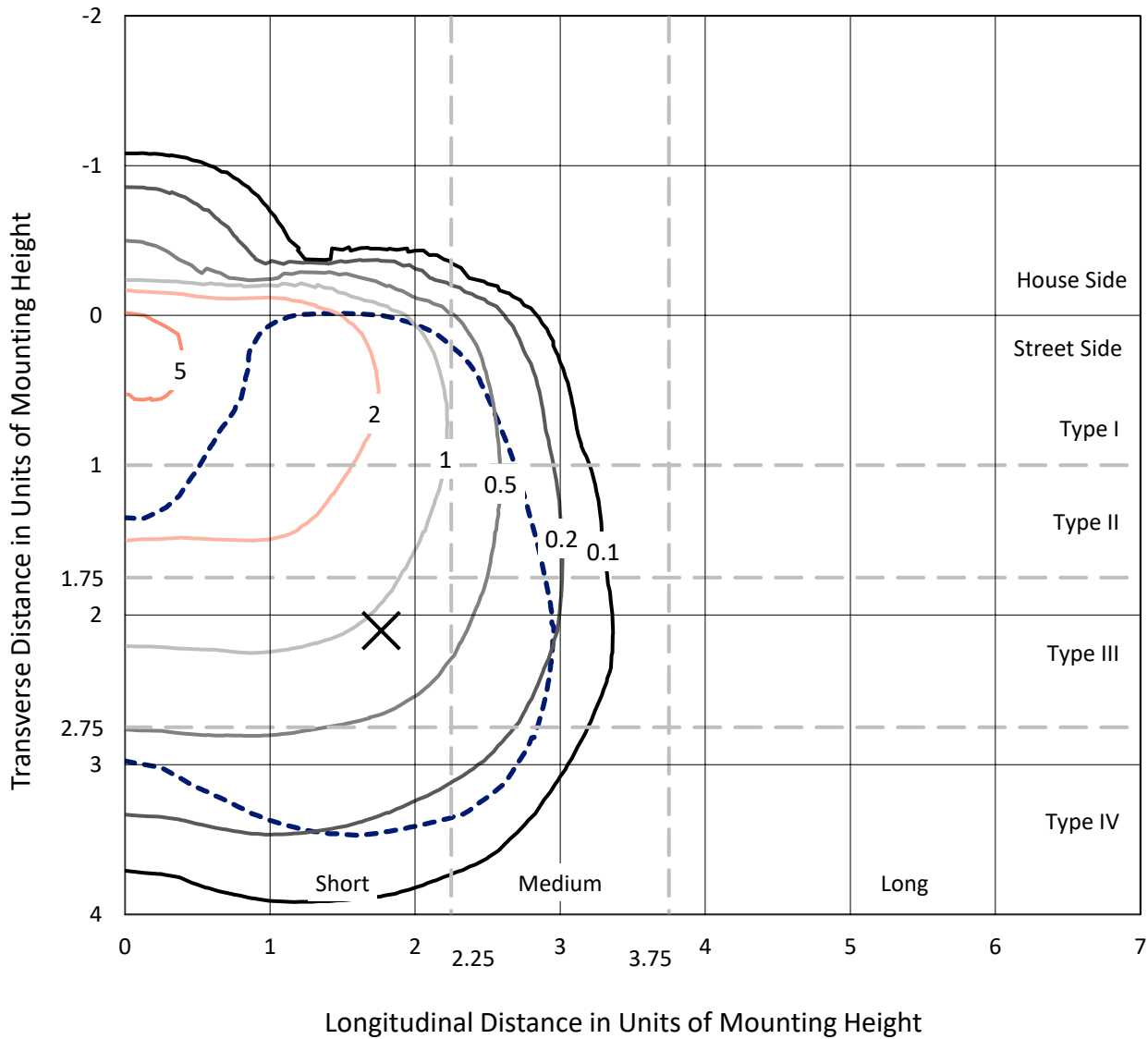
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

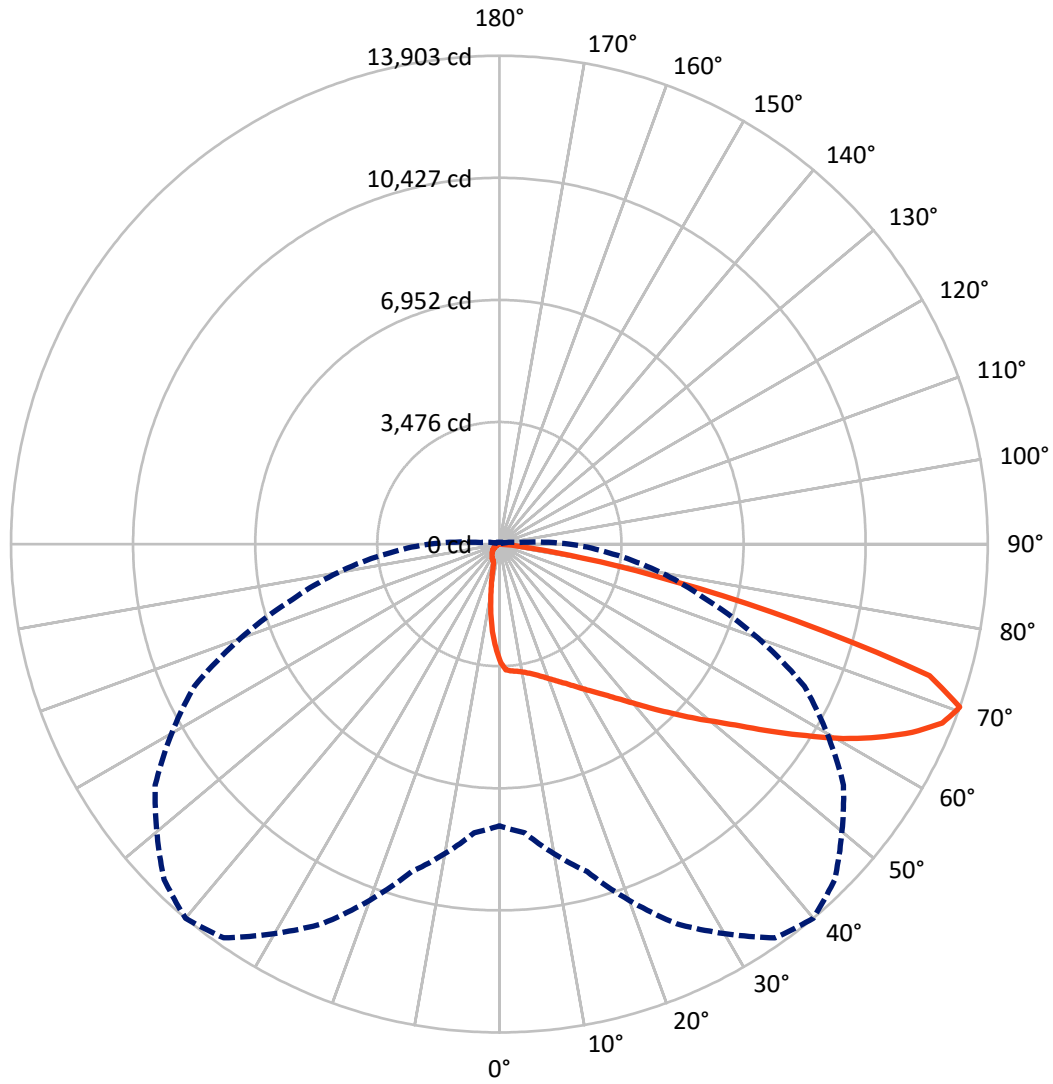
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1614.0	0.0	1614.0
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	18123.3	0.0	18123.3
	% Fixture	91.8	0.0	91.8
Total	Lumens	19737.3	0.0	19737.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.1	1.4
10°-20°	717.9	3.6
20°-30°	1201.6	6.1
30°-40°	1887.3	9.6
40°-50°	2985.2	15.1
50°-60°	4354.6	22.1
60°-70°	5398.2	27.4
70°-80°	2731.2	13.8
80°-90°	178.3	0.9
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°	19737.3	100.0
0°-180°	19737.3	100.0

Coefficient of Utilization



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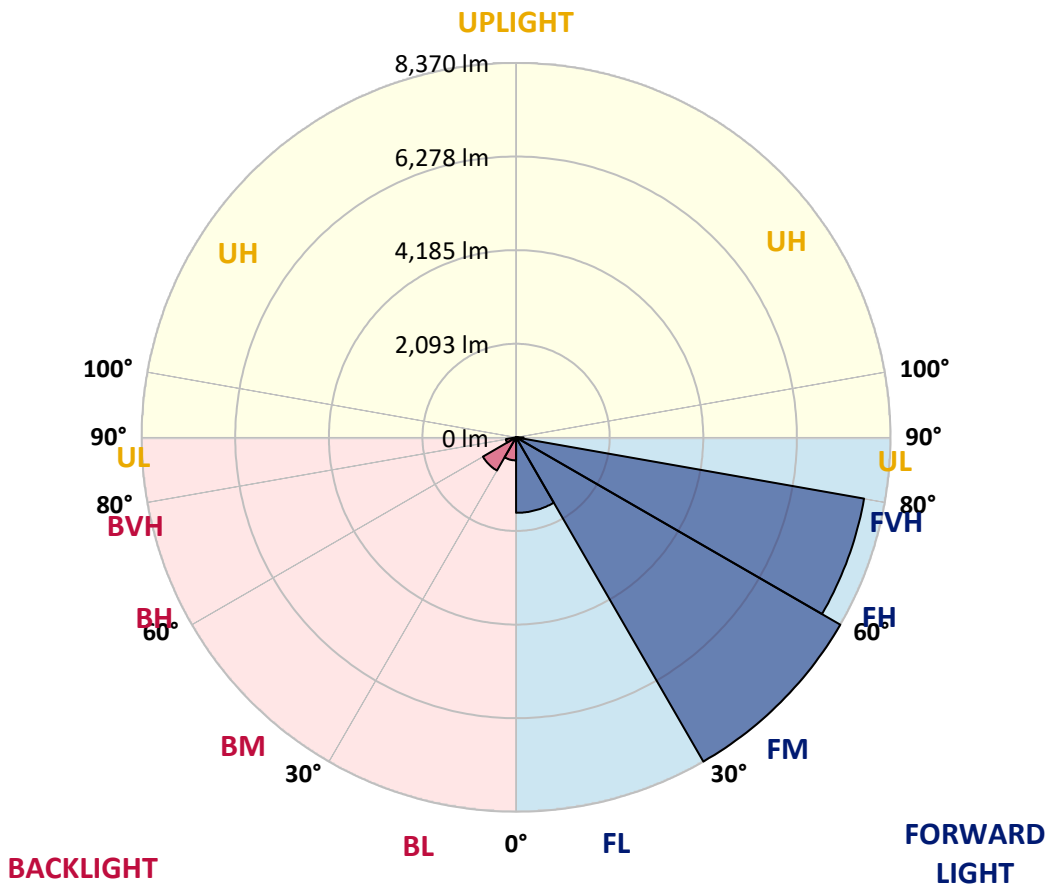
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1687.2	8.5			
FM (30°-60°)	8370.4	42.4			
FH (60°-80°)	7899.2	40.0			G4/12000
FVH (80°-90°)	166.5	0.8			G2/225
BL (0°-30°)	515.4	2.6	B2/1000		
BM (30°-60°)	856.7	4.3	B1/1000		
BH (60°-80°)	230.1	1.2	B1/500		G1/500
BVH (80°-90°)	11.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3349.2	3349.2	3349.2	3349.2	3349.2	3349.2	3349.2	3349.2	3349.2	3349.2	3349.2
2.5°	3600.6	3613.2	3611.4	3616.8	3604.2	3584.4	3580.8	3553.9	3505.4	3444.4	3376.1
5°	3674.2	3688.6	3677.8	3672.4	3649.1	3627.5	3622.1	3593.4	3537.7	3455.1	3336.6
7.5°	3737.1	3740.7	3733.5	3720.9	3686.8	3658.1	3638.3	3598.8	3532.4	3449.7	3313.3
10°	3747.9	3746.1	3749.6	3751.4	3729.9	3704.8	3688.6	3634.7	3550.3	3462.3	3315.1
12.5°	3735.3	3735.3	3758.6	3785.6	3785.6	3773.0	3756.8	3708.3	3609.6	3505.4	3351.0
15°	3751.4	3756.8	3801.7	3852.0	3868.2	3855.6	3848.4	3798.1	3695.8	3580.8	3415.6
17.5°	3808.9	3814.3	3886.1	3961.6	3981.3	3966.9	3952.6	3902.3	3792.7	3667.0	3489.3
20°	3893.3	3907.7	3999.3	4096.2	4114.2	4096.2	4067.5	3997.5	3887.9	3760.4	3559.3
22.5°	4047.8	4056.7	4155.5	4257.9	4266.8	4238.1	4195.0	4098.0	3983.1	3859.2	3638.3
25°	4252.5	4265.0	4363.8	4462.6	4439.2	4396.1	4336.9	4227.3	4096.2	3975.9	3738.9
27.5°	4496.7	4511.1	4608.0	4694.2	4633.2	4582.9	4516.5	4380.0	4247.1	4137.5	3868.2
30°	4760.7	4773.3	4859.5	4936.7	4855.9	4796.6	4717.6	4577.5	4442.8	4360.2	4051.3
32.5°	5015.7	5013.9	5096.5	5159.4	5076.8	5030.1	4958.2	4816.4	4708.6	4672.7	4324.3
35°	5252.7	5252.7	5321.0	5383.8	5324.6	5299.4	5233.0	5119.9	5058.8	5101.9	4688.9
37.5°	5491.6	5479.0	5543.7	5613.7	5608.3	5610.1	5572.4	5518.5	5522.1	5674.8	5189.9
40°	5689.1	5683.7	5759.2	5850.7	5922.6	5980.0	5956.7	5976.5	6089.6	6375.1	5831.0
42.5°	5847.2	5859.7	5956.7	6102.2	6283.5	6400.3	6416.4	6497.2	6788.2	7229.9	6554.7
45°	6028.5	6030.3	6165.0	6387.7	6676.8	6861.8	6926.4	7134.7	7547.8	8117.1	7348.4
47.5°	6251.2	6229.7	6380.5	6693.0	7111.4	7384.4	7499.3	7759.7	8399.0	8982.6	7994.9
50°	6497.2	6457.7	6628.3	7053.9	7598.1	7939.3	8172.7	8553.4	9243.0	9693.8	8476.2
52.5°	6782.8	6745.1	6939.0	7468.8	8181.7	8596.5	8896.4	9280.7	9966.7	10236.1	8763.5
55°	7145.5	7107.8	7312.5	7966.2	8871.3	9410.0	9724.3	10047.5	10640.2	10636.6	8971.9
57.5°	7547.8	7495.7	7779.4	8594.7	9731.5	10291.8	10611.4	10769.5	11152.0	10947.2	9111.9
60°	8009.3	7962.6	8355.9	9343.6	10724.6	11243.6	11444.7	11380.0	11572.2	11130.4	9063.4
62.5°	8425.9	8404.4	8892.8	10137.3	11671.0	12109.1	12164.8	11882.9	11881.1	11134.0	8736.6
65°	8858.7	8900.0	9625.5	11051.4	12622.7	12917.3	12822.1	12382.1	12005.0	10694.0	7770.5
67.5°	9020.3	9140.7	10108.6	11877.5	13373.4	13603.3	13436.2	12631.7	11489.6	9214.3	5917.2
70°	8021.9	8248.1	9652.5	11924.2	13684.1	13903.2	13502.7	11960.1	9578.8	6104.0	3241.4
72.5°	6100.4	6364.3	8043.4	9763.8	12306.7	12805.9	12121.7	9744.1	6174.0	2674.0	1088.3
75°	3413.8	3699.4	5990.8	7352.0	8262.5	8718.7	8467.2	6251.2	2735.0	698.6	325.0
77.5°	1154.7	1249.9	2787.1	4548.8	5453.9	5044.4	4270.4	3105.0	1005.7	265.8	172.4
80°	684.2	720.1	1038.0	2264.5	2869.7	2379.4	1878.4	1147.5	511.8	141.9	120.3
82.5°	204.7	242.4	572.9	840.4	1124.2	700.4	592.6	655.5	265.8	77.2	100.6
85°	0.0	0.0	122.1	260.4	294.5	114.9	114.9	371.7	48.5	32.3	73.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	9.0	5.4	7.2	16.2
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°	3349.2	3349.2	3349.2	3349.2	3349.2	3349.2	3349.2	3349.2	3349.2	3349.2	3349.2
2.5°	3327.6	3264.8	3191.2	3121.1	3054.7	2968.5	2927.2	2876.9	2833.8	2810.4	2823.0
5°	3261.2	3162.4	3011.6	2858.9	2704.5	2559.0	2427.9	2339.9	2260.9	2219.6	2228.6
7.5°	3203.7	3070.8	2835.6	2586.0	2338.1	2088.5	1885.6	1727.6	1605.5	1555.2	1546.2
10°	3178.6	3011.6	2679.3	2320.2	1939.5	1603.7	1316.3	1142.1	1018.2	957.2	967.9
12.5°	3191.2	2981.0	2546.5	2059.8	1565.9	1174.5	899.7	736.3	648.3	612.4	603.4
15°	3227.1	2973.9	2427.9	1794.0	1208.6	820.7	621.3	554.9	536.9	533.4	533.4
17.5°	3268.4	2975.7	2305.8	1524.6	917.7	608.8	531.6	519.0	513.6	510.0	511.8
20°	3309.7	2975.7	2165.7	1251.7	689.6	526.2	506.4	497.4	492.1	490.3	490.3
22.5°	3360.0	2975.7	2009.5	998.5	553.1	499.2	483.1	477.7	472.3	470.5	468.7
25°	3421.0	2977.5	1837.1	781.2	502.8	475.9	463.3	457.9	452.5	449.0	449.0
27.5°	3509.0	2991.8	1646.8	608.8	474.1	454.3	443.6	438.2	432.8	427.4	427.4
30°	3636.5	3027.7	1433.1	502.8	447.2	431.0	420.2	416.6	411.2	405.9	404.1
32.5°	3826.9	3090.6	1212.2	450.7	422.0	405.9	393.3	389.7	384.3	378.9	377.1
35°	4092.6	3205.5	996.7	418.4	389.7	373.5	366.3	364.5	357.4	352.0	352.0
37.5°	4482.3	3392.3	790.2	386.1	362.8	350.2	341.2	337.6	330.4	325.0	323.2
40°	4958.2	3634.7	614.2	361.0	337.6	325.0	316.1	310.7	301.7	294.5	290.9
42.5°	5565.2	3931.0	484.9	334.0	314.3	301.7	294.5	283.7	271.2	260.4	258.6
45°	6197.3	4236.3	400.5	308.9	292.7	281.9	273.0	258.6	240.6	228.1	224.5
47.5°	6682.2	4426.7	350.2	281.9	269.4	260.4	249.6	231.7	210.1	195.7	192.2
50°	7028.8	4455.4	312.5	256.8	249.6	240.6	224.5	202.9	179.6	165.2	161.6
52.5°	7199.4	4326.1	281.9	233.5	228.1	219.1	199.3	176.0	150.8	136.5	132.9
55°	7276.6	4081.9	253.2	213.7	206.5	195.7	174.2	149.1	123.9	111.3	107.7
57.5°	7246.1	3720.9	228.1	193.9	185.0	172.4	149.1	122.1	102.4	89.8	88.0
60°	7019.8	3214.5	202.9	174.2	163.4	149.1	125.7	100.6	82.6	73.6	71.8
62.5°	6531.4	2586.0	177.8	150.8	143.7	129.3	107.7	82.6	68.2	62.9	61.1
65°	5531.1	1828.1	152.6	127.5	123.9	109.5	89.8	68.2	59.3	55.7	53.9
67.5°	3975.9	1111.6	129.3	109.5	106.0	93.4	75.4	59.3	53.9	52.1	52.1
70°	1998.7	526.2	102.4	89.8	89.8	77.2	64.6	53.9	52.1	50.3	50.3
72.5°	678.8	224.5	77.2	70.0	73.6	66.4	55.7	50.3	50.3	50.3	50.3
75°	231.7	118.5	53.9	50.3	53.9	53.9	48.5	48.5	50.3	50.3	50.3
77.5°	150.8	79.0	37.7	34.1	41.3	41.3	41.3	44.9	48.5	48.5	48.5
80°	123.9	43.1	25.1	23.3	30.5	30.5	34.1	41.3	44.9	44.9	44.9
82.5°	106.0	26.9	14.4	16.2	21.5	23.3	28.7	34.1	39.5	41.3	41.3
85°	71.8	14.4	10.8	12.6	14.4	18.0	23.3	28.7	32.3	35.9	35.9
87.5°	19.8	5.4	7.2	9.0	9.0	12.6	18.0	21.5	25.1	26.9	26.9
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)