

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: P638257

Luminaire Tested: GWS-SA4E-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638257
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-SA4E-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24112.2 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

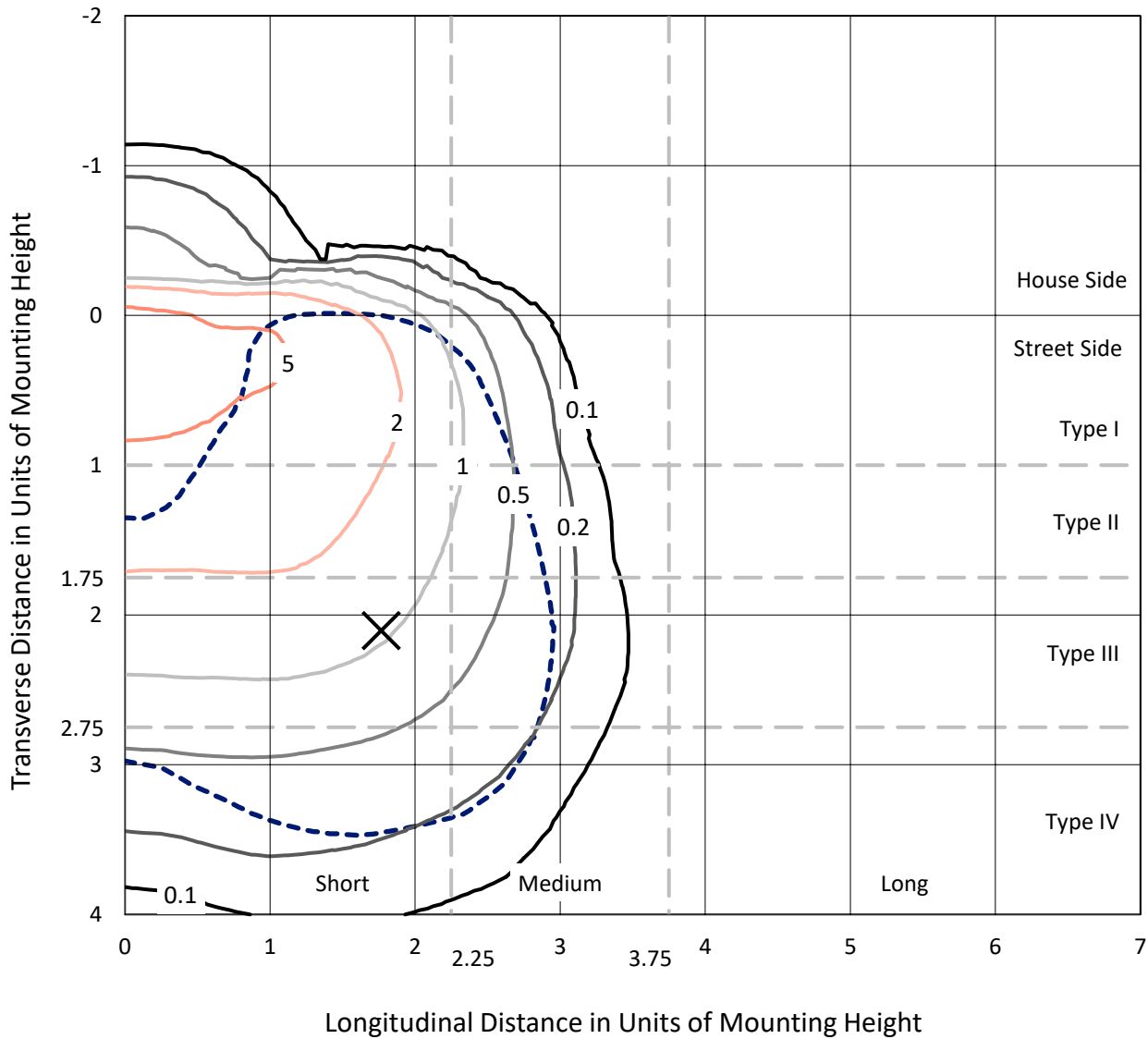
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

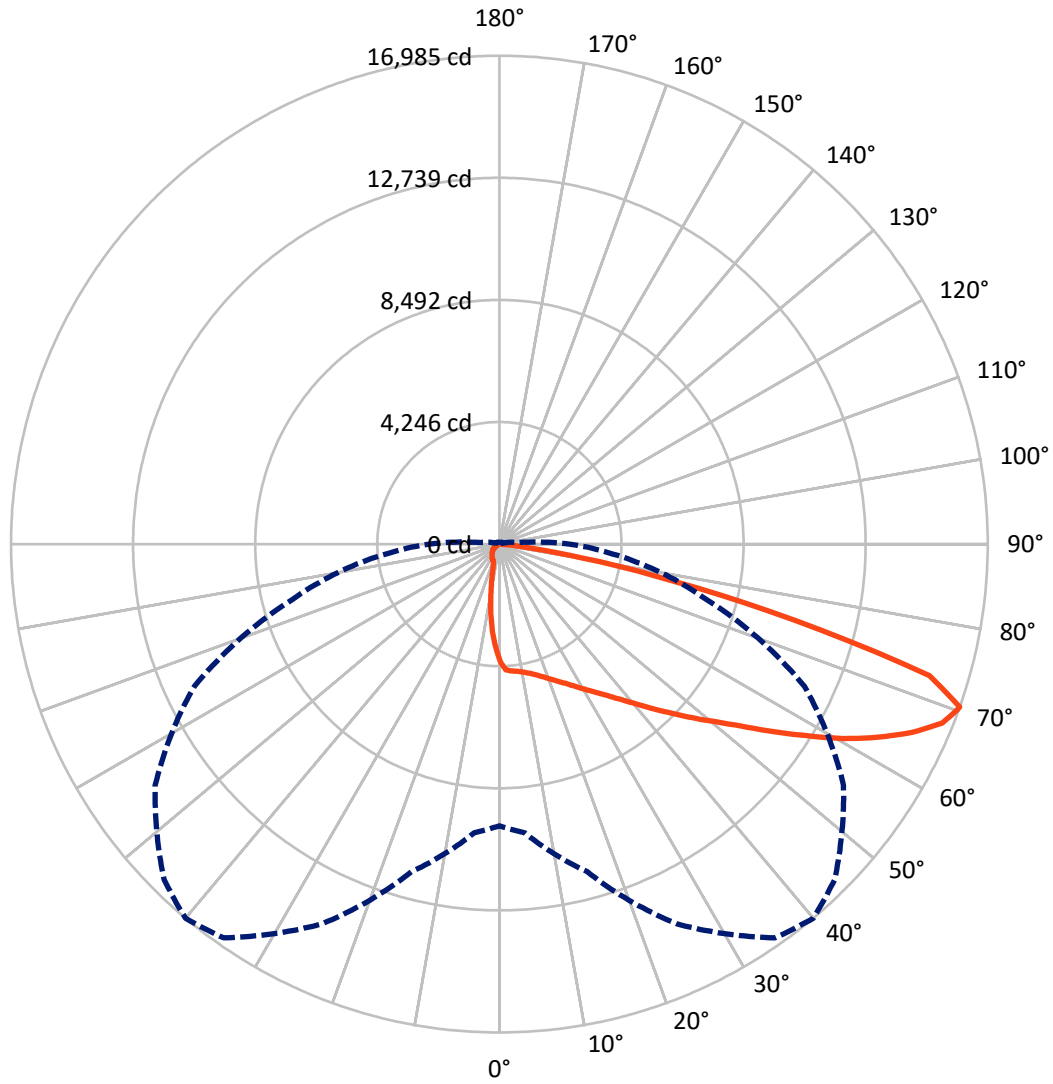
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	1971.8	0.0	1971.8
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	22140.4	0.0	22140.4
	% Fixture	91.8	0.0	91.8
Total	Lumens	24112.2	0.0	24112.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	1.4
10°-20°	877.1	3.6
20°-30°	1467.9	6.1
30°-40°	2305.6	9.6
40°-50°	3646.9	15.1
50°-60°	5319.8	22.1
60°-70°	6594.7	27.4
70°-80°	3336.5	13.8
80°-90°	217.8	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°	24112.2	100.0
0°-180°	24112.2	100.0

Coefficient of Utilization



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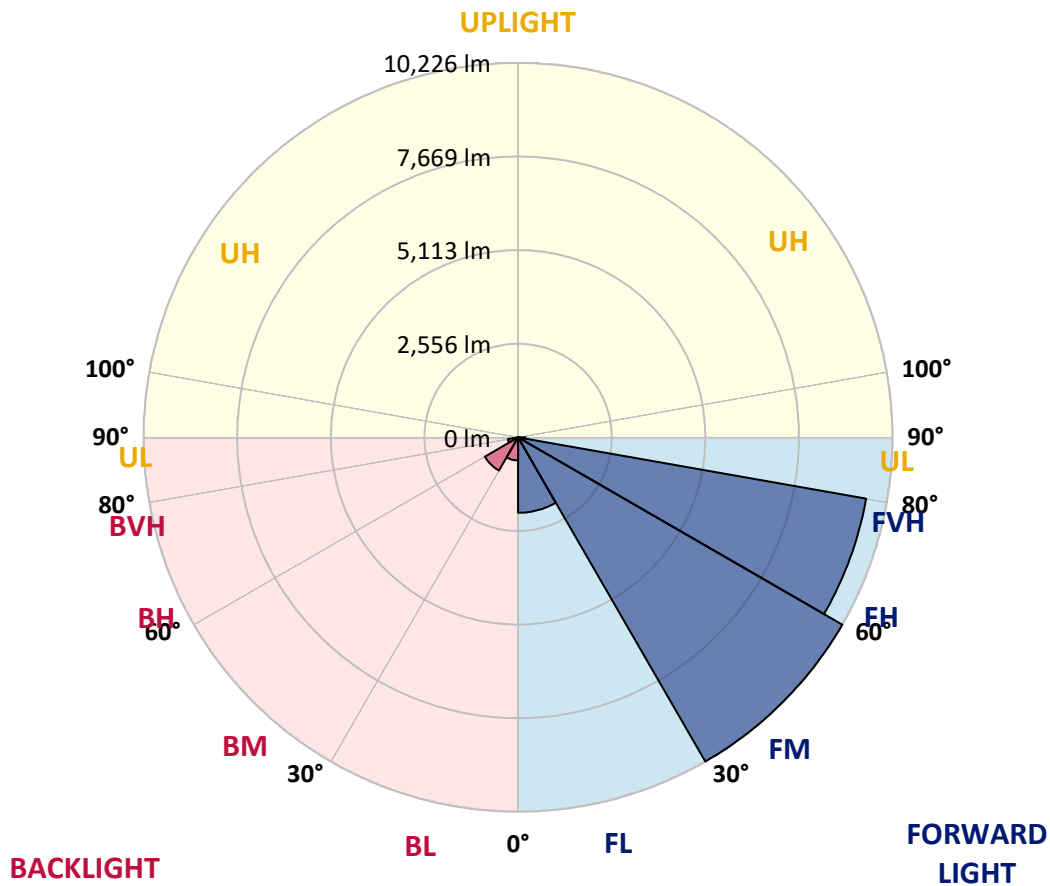
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2061.2	8.5			
FM (30°-60°)	10225.7	42.4			
FH (60°-80°)	9650.1	40.0			G4/12000
FVH (80°-90°)	203.4	0.8			G2/225
BL (0°-30°)	629.7	2.6	B2/1000		
BM (30°-60°)	1046.6	4.3	B2/2500		
BH (60°-80°)	281.1	1.2	B1/500		G1/500
BVH (80°-90°)	14.4	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°	4091.6	4091.6	4091.6	4091.6	4091.6	4091.6	4091.6	4091.6	4091.6	4091.6	4091.6
2.5°	4398.7	4414.0	4411.9	4418.4	4403.1	4378.9	4374.6	4341.7	4282.4	4207.8	4124.5
5°	4488.6	4506.2	4493.0	4486.4	4457.9	4431.6	4425.0	4389.9	4321.9	4221.0	4076.2
7.5°	4565.4	4569.8	4561.0	4545.7	4504.0	4468.9	4444.8	4396.5	4315.3	4214.4	4047.7
10°	4578.6	4576.4	4580.8	4583.0	4556.6	4525.9	4506.2	4440.4	4337.3	4229.8	4049.9
12.5°	4563.2	4563.2	4591.8	4624.7	4624.7	4609.3	4589.6	4530.3	4409.7	4282.4	4093.7
15°	4583.0	4589.6	4644.4	4705.8	4725.6	4710.2	4701.4	4640.0	4515.0	4374.6	4172.7
17.5°	4653.2	4659.8	4747.5	4839.7	4863.8	4846.2	4828.7	4767.3	4633.4	4479.9	4262.7
20°	4756.3	4773.8	4885.7	5004.2	5026.1	5004.2	4969.1	4883.5	4749.7	4593.9	4348.2
22.5°	4945.0	4955.9	5076.6	5201.6	5212.6	5177.5	5124.9	5006.4	4866.0	4714.6	4444.8
25°	5195.1	5210.4	5331.1	5451.7	5423.2	5370.6	5298.2	5164.3	5004.2	4857.2	4567.6
27.5°	5493.4	5511.0	5629.4	5734.8	5660.2	5598.7	5517.6	5350.8	5188.5	5054.7	4725.6
30°	5815.9	5831.3	5936.6	6030.9	5932.2	5859.8	5763.3	5592.2	5427.6	5326.7	4949.4
32.5°	6127.5	6125.3	6226.2	6303.0	6202.0	6145.0	6057.3	5883.9	5752.3	5708.4	5282.8
35°	6417.0	6417.0	6500.4	6577.2	6504.8	6474.1	6392.9	6254.7	6180.1	6232.8	5728.2
37.5°	6708.8	6693.5	6772.4	6858.0	6851.4	6853.6	6807.6	6741.7	6746.1	6932.6	6340.3
40°	6950.2	6943.6	7035.7	7147.6	7235.4	7305.6	7277.0	7301.2	7439.4	7788.2	7123.5
42.5°	7143.2	7158.6	7277.0	7454.7	7676.3	7818.9	7838.7	7937.4	8292.8	8832.5	8007.6
45°	7364.8	7367.0	7531.5	7803.6	8156.8	8382.7	8461.7	8716.2	9220.8	9916.3	8977.3
47.5°	7636.8	7610.5	7794.8	8176.5	8687.7	9021.2	9161.6	9479.7	10260.7	10973.7	9767.1
50°	7937.4	7889.1	8097.5	8617.5	9282.2	9699.1	9984.3	10449.4	11291.8	11842.5	10355.0
52.5°	8286.2	8240.1	8477.1	9124.3	9995.2	10502.0	10868.4	11337.9	12175.9	12505.0	10706.0
55°	8729.4	8683.3	8933.4	9732.0	10837.7	11495.8	11879.8	12274.7	12998.6	12994.2	10960.5
57.5°	9220.8	9157.2	9503.8	10499.8	11888.5	12573.0	12963.5	13156.6	13623.9	13373.8	11131.7
60°	9784.6	9727.6	10208.0	11414.7	13101.7	13735.8	13981.5	13902.5	14137.2	13597.6	11072.4
62.5°	10293.6	10267.3	10864.0	12384.3	14257.9	14793.2	14861.2	14516.8	14514.6	13601.9	10673.1
65°	10822.3	10872.8	11759.1	13501.0	15420.7	15780.4	15664.2	15126.7	14666.0	13064.4	9492.8
67.5°	11019.8	11166.8	12349.2	14510.2	16337.7	16618.5	16414.5	15431.6	14036.3	11256.7	7228.8
70°	9800.0	10076.4	11792.0	14567.2	16717.2	16984.9	16495.6	14611.1	11702.1	7456.9	3959.9
72.5°	7452.5	7775.0	9826.3	11928.0	15034.5	15644.4	14808.6	11903.9	7542.5	3266.7	1329.5
75°	4170.5	4519.4	7318.7	8981.7	10094.0	10651.2	10344.1	7636.8	3341.3	853.4	397.1
77.5°	1410.7	1526.9	3404.9	5557.1	6662.8	6162.6	5217.0	3793.2	1228.6	324.7	210.6
80°	835.9	879.7	1268.1	2766.5	3505.8	2906.9	2294.8	1401.9	625.3	173.3	147.0
82.5°	250.1	296.2	699.8	1026.7	1373.4	855.6	724.0	800.8	324.7	94.3	122.9
85°	0.0	0.0	149.2	318.1	359.8	140.4	140.4	454.1	59.2	39.5	89.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	11.0	6.6	8.8	19.7
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°	4091.6	4091.6	4091.6	4091.6	4091.6	4091.6	4091.6	4091.6	4091.6	4091.6	4091.6
2.5°	4065.2	3988.4	3898.5	3812.9	3731.8	3626.5	3576.0	3514.6	3461.9	3433.4	3448.7
5°	3984.1	3863.4	3679.1	3492.6	3304.0	3126.3	2966.1	2858.6	2762.1	2711.6	2722.6
7.5°	3913.8	3751.5	3464.1	3159.2	2856.4	2551.5	2303.6	2110.5	1961.3	1899.9	1888.9
10°	3883.1	3679.1	3273.2	2834.5	2369.4	1959.1	1608.1	1395.3	1243.9	1169.3	1182.5
12.5°	3898.5	3641.8	3110.9	2516.4	1913.0	1434.8	1099.1	899.5	792.0	748.1	737.1
15°	3942.4	3633.0	2966.1	2191.7	1476.5	1002.6	759.1	677.9	656.0	651.6	651.6
17.5°	3992.8	3635.2	2816.9	1862.6	1121.1	743.7	649.4	634.0	627.4	623.1	625.3
20°	4043.3	3635.2	2645.8	1529.1	842.4	642.8	618.7	607.7	601.1	598.9	598.9
22.5°	4104.7	3635.2	2454.9	1219.8	675.7	609.9	590.1	583.6	577.0	574.8	572.6
25°	4179.3	3637.4	2244.3	954.3	614.3	581.4	566.0	559.4	552.9	548.5	548.5
27.5°	4286.8	3655.0	2011.8	743.7	579.2	555.0	541.9	535.3	528.7	522.1	522.1
30°	4442.6	3698.9	1750.7	614.3	546.3	526.5	513.4	509.0	502.4	495.8	493.6
32.5°	4675.1	3775.6	1480.9	550.7	515.6	495.8	480.5	476.1	469.5	462.9	460.7
35°	4999.8	3916.0	1217.6	511.2	476.1	456.3	447.5	445.4	436.6	430.0	430.0
37.5°	5475.9	4144.2	965.3	471.7	443.2	427.8	416.8	412.4	403.7	397.1	394.9
40°	6057.3	4440.4	750.3	441.0	412.4	397.1	386.1	379.5	368.6	359.8	355.4
42.5°	6798.8	4802.4	592.3	408.1	383.9	368.6	359.8	346.6	331.3	318.1	315.9
45°	7571.0	5175.3	489.2	377.3	357.6	344.4	333.5	315.9	294.0	278.6	274.2
47.5°	8163.4	5407.9	427.8	344.4	329.1	318.1	304.9	283.0	256.7	239.1	234.7
50°	8586.8	5443.0	381.7	313.7	304.9	294.0	274.2	247.9	219.4	201.8	197.4
52.5°	8795.2	5285.0	344.4	285.2	278.6	267.7	243.5	215.0	184.3	166.7	162.3
55°	8889.5	4986.6	309.3	261.1	252.3	239.1	212.8	182.1	151.4	136.0	131.6
57.5°	8852.2	4545.7	278.6	236.9	226.0	210.6	182.1	149.2	125.1	109.7	107.5
60°	8575.8	3927.0	247.9	212.8	199.6	182.1	153.6	122.9	100.9	89.9	87.8
62.5°	7979.1	3159.2	217.2	184.3	175.5	158.0	131.6	100.9	83.4	76.8	74.6
65°	6757.1	2233.4	186.5	155.8	151.4	133.8	109.7	83.4	72.4	68.0	65.8
67.5°	4857.2	1358.0	158.0	133.8	129.4	114.1	92.1	72.4	65.8	63.6	63.6
70°	2441.8	642.8	125.1	109.7	109.7	94.3	79.0	65.8	63.6	61.4	61.4
72.5°	829.3	274.2	94.3	85.6	89.9	81.2	68.0	61.4	61.4	61.4	61.4
75°	283.0	144.8	65.8	61.4	65.8	65.8	59.2	59.2	61.4	61.4	61.4
77.5°	184.3	96.5	46.1	41.7	50.5	50.5	50.5	54.8	59.2	59.2	59.2
80°	151.4	52.7	30.7	28.5	37.3	37.3	41.7	50.5	54.8	54.8	54.8
82.5°	129.4	32.9	17.6	19.7	26.3	28.5	35.1	41.7	48.3	50.5	50.5
85°	87.8	17.6	13.2	15.4	17.6	21.9	28.5	35.1	39.5	43.9	43.9
87.5°	24.1	6.6	8.8	11.0	11.0	15.4	21.9	26.3	30.7	32.9	32.9
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)