

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: P638807

Luminaire Tested: GWS-SA4F-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638807
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-SA4F-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: 27422.7 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

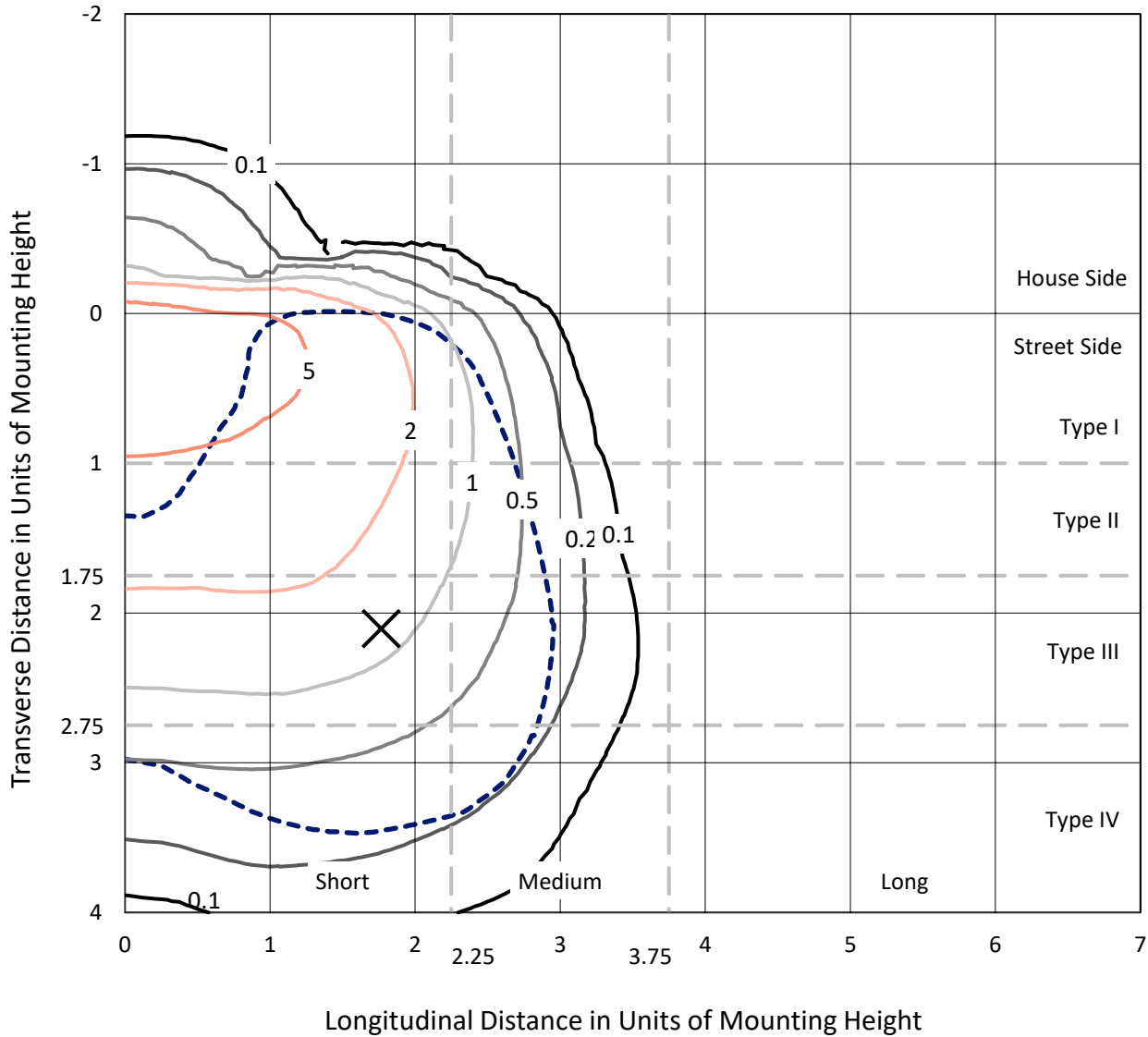
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

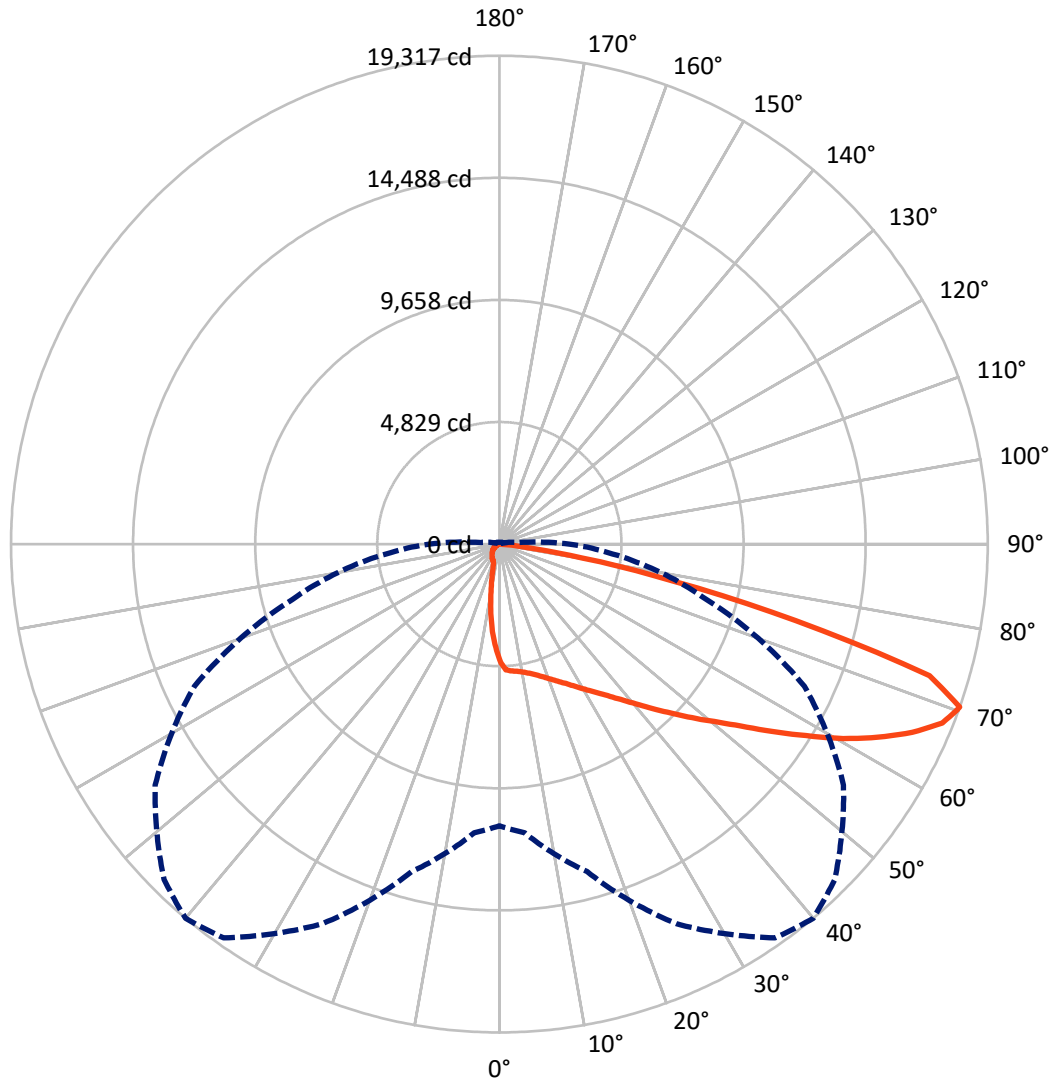
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	2242.5	0.0	2242.5
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	25180.2	0.0	25180.2
	% Fixture	91.8	0.0	91.8
Total	Lumens	27422.7	0.0	27422.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.3	1.4
10°-20°	997.5	3.6
20°-30°	1669.5	6.1
30°-40°	2622.1	9.6
40°-50°	4147.6	15.1
50°-60°	6050.2	22.1
60°-70°	7500.1	27.4
70°-80°	3794.6	13.8
80°-90°	247.7	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°	27422.7	100.0
0°-180°	27422.7	100.0

Coefficient of Utilization



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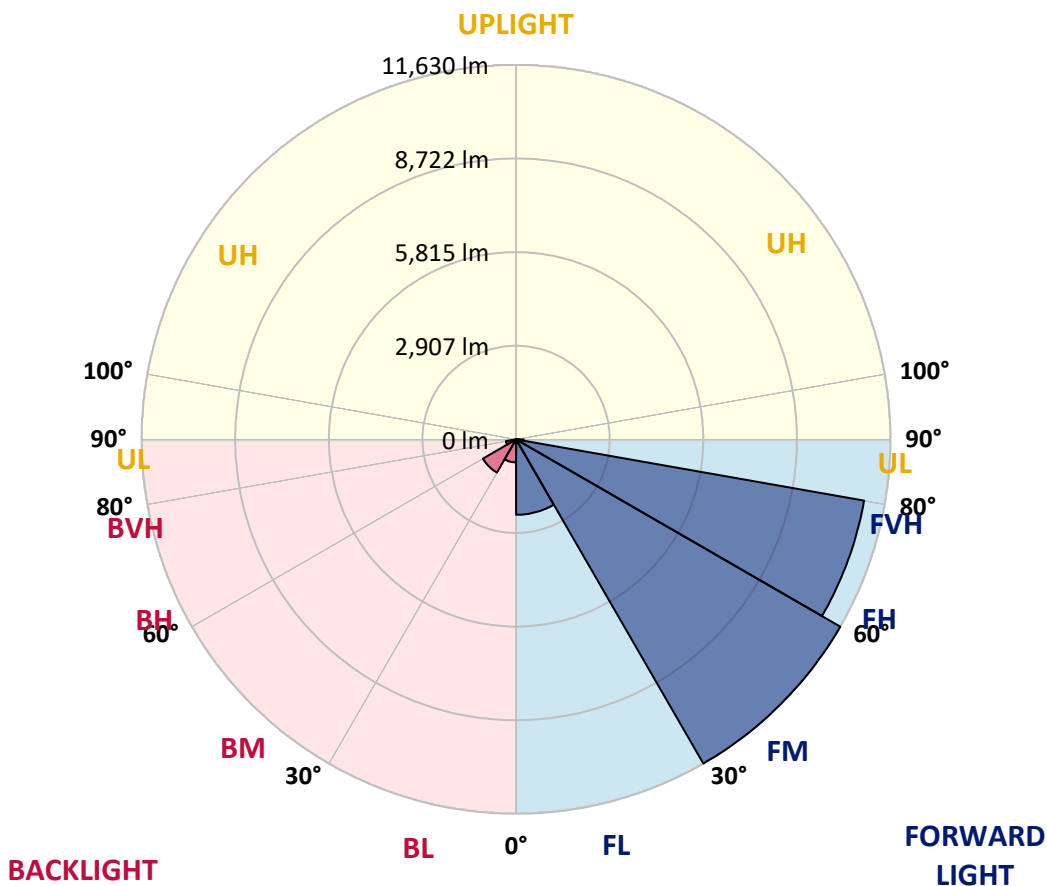
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2344.1	8.5			
FM (30°-60°)	11629.7	42.4			
FH (60°-80°)	10975.0	40.0			G4/12000
FVH (80°-90°)	231.4	0.8			G3/500
BL (0°-30°)	716.1	2.6	B2/1000		
BM (30°-60°)	1190.3	4.3	B2/2500		
BH (60°-80°)	319.7	1.2	B1/500		G1/500
BVH (80°-90°)	16.3	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°	4653.3	4653.3	4653.3	4653.3	4653.3	4653.3	4653.3	4653.3	4653.3	4653.3	4653.3
2.5°	5002.6	5020.1	5017.6	5025.1	5007.6	4980.2	4975.2	4937.7	4870.4	4785.5	4690.7
5°	5104.9	5124.9	5109.9	5102.4	5070.0	5040.0	5032.6	4992.6	4915.3	4800.5	4635.8
7.5°	5192.2	5197.2	5187.2	5169.8	5122.4	5082.5	5055.0	5000.1	4907.8	4793.0	4603.4
10°	5207.2	5204.7	5209.7	5212.2	5182.3	5147.3	5124.9	5050.0	4932.8	4810.5	4605.9
12.5°	5189.7	5189.7	5222.2	5259.6	5259.6	5242.1	5219.7	5152.3	5015.1	4870.4	4655.8
15°	5212.2	5219.7	5282.1	5351.9	5374.4	5356.9	5346.9	5277.1	5134.9	4975.2	4745.6
17.5°	5292.0	5299.5	5399.3	5504.1	5531.6	5511.6	5491.6	5421.8	5269.6	5094.9	4847.9
20°	5409.3	5429.3	5556.5	5691.3	5716.2	5691.3	5651.3	5554.0	5401.8	5224.7	4945.2
22.5°	5623.9	5636.4	5773.6	5915.8	5928.3	5888.4	5828.5	5693.7	5534.1	5361.9	5055.0
25°	5908.3	5925.8	6063.0	6200.2	6167.8	6107.9	6025.6	5873.4	5691.3	5524.1	5194.7
27.5°	6247.7	6267.6	6402.3	6522.1	6437.3	6367.4	6275.1	6085.5	5900.8	5748.6	5374.4
30°	6614.4	6631.9	6751.7	6858.9	6746.7	6664.3	6554.5	6359.9	6172.8	6058.0	5628.9
32.5°	6968.7	6966.2	7081.0	7168.3	7053.6	6988.7	6888.9	6691.8	6542.1	6492.2	6008.1
35°	7298.1	7298.1	7392.9	7480.2	7397.9	7362.9	7270.6	7113.4	7028.6	7088.5	6514.6
37.5°	7629.9	7612.5	7702.3	7799.6	7792.1	7794.6	7742.2	7667.3	7672.3	7884.4	7210.7
40°	7904.4	7896.9	8001.7	8128.9	8228.7	8308.6	8276.1	8303.6	8460.8	8857.5	8101.5
42.5°	8123.9	8141.4	8276.1	8478.2	8730.2	8892.4	8914.9	9027.2	9431.4	10045.1	9107.0
45°	8375.9	8378.4	8565.6	8875.0	9276.7	9533.7	9623.5	9912.9	10486.8	11277.7	10209.8
47.5°	8685.3	8655.4	8865.0	9299.1	9880.5	10259.7	10419.4	10781.2	11669.4	12480.3	11108.0
50°	9027.2	8972.3	9209.3	9800.6	10556.6	11030.7	11355.1	11884.0	12842.1	13468.4	11776.7
52.5°	9423.9	9371.5	9640.9	10377.0	11367.5	11943.9	12360.6	12894.5	13847.6	14221.9	12175.9
55°	9927.9	9875.5	10159.9	11068.1	12325.6	13074.2	13510.8	13959.9	14783.3	14778.3	12465.4
57.5°	10486.8	10414.4	10808.6	11941.4	13520.8	14299.2	14743.4	14962.9	15494.4	15209.9	12660.0
60°	11128.0	11063.1	11609.6	12981.8	14900.6	15621.6	15901.1	15811.3	16078.2	15464.4	12592.6
62.5°	11706.9	11676.9	12355.6	14084.7	16215.5	16824.2	16901.6	16509.9	16507.4	15469.4	12138.5
65°	12308.2	12365.6	13373.6	15354.7	17537.8	17947.0	17814.8	17203.5	16679.5	14858.1	10796.2
67.5°	12532.7	12699.9	14044.7	16502.4	18580.8	18900.1	18668.1	17550.3	15963.5	12802.2	8221.3
70°	11145.5	11459.9	13411.0	16567.3	19012.4	19316.8	18760.4	16617.2	13308.7	8480.7	4503.6
72.5°	8475.7	8842.5	11175.4	13565.7	17098.7	17792.3	16841.7	13538.2	8578.0	3715.2	1512.0
75°	4743.1	5139.8	8323.5	10214.8	11479.8	12113.6	11764.2	8685.3	3800.0	970.6	451.6
77.5°	1604.3	1736.6	3872.3	6320.0	7577.5	7008.6	5933.3	4314.0	1397.2	369.3	239.5
80°	950.6	1000.5	1442.1	3146.3	3987.1	3306.0	2609.8	1594.3	711.1	197.1	167.2
82.5°	284.4	336.8	795.9	1167.7	1561.9	973.1	823.4	910.7	369.3	107.3	139.7
85°	0.0	0.0	169.7	361.8	409.2	159.7	159.7	516.5	67.4	44.9	102.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	12.5	7.5	10.0	22.5
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°	4653.3	4653.3	4653.3	4653.3	4653.3	4653.3	4653.3	4653.3	4653.3	4653.3	4653.3
2.5°	4623.4	4536.0	4433.7	4336.4	4244.1	4124.3	4067.0	3997.1	3937.2	3904.8	3922.2
5°	4531.0	4393.8	4184.2	3972.1	3757.6	3555.5	3373.3	3251.1	3141.3	3083.9	3096.4
7.5°	4451.2	4266.6	3939.7	3592.9	3248.6	2901.8	2619.8	2400.3	2230.6	2160.7	2148.3
10°	4416.3	4184.2	3722.6	3223.6	2694.7	2228.1	1828.9	1586.9	1414.7	1329.9	1344.8
12.5°	4433.7	4141.8	3538.0	2861.8	2175.7	1631.8	1250.0	1023.0	900.7	850.8	838.3
15°	4483.6	4131.8	3373.3	2492.6	1679.2	1140.2	863.3	771.0	746.0	741.0	741.0
17.5°	4541.0	4134.3	3203.7	2118.3	1275.0	845.8	738.5	721.1	713.6	708.6	711.1
20°	4598.4	4134.3	3009.1	1739.1	958.1	731.1	703.6	691.1	683.6	681.2	681.2
22.5°	4668.3	4134.3	2792.0	1387.3	768.5	693.6	671.2	663.7	656.2	653.7	651.2
25°	4753.1	4136.8	2552.5	1085.4	698.6	661.2	643.7	636.2	628.8	623.8	623.8
27.5°	4875.4	4156.8	2288.0	845.8	658.7	631.3	616.3	608.8	601.3	593.8	593.8
30°	5052.5	4206.7	1991.1	698.6	621.3	598.8	583.8	578.9	571.4	563.9	561.4
32.5°	5317.0	4294.0	1684.2	626.3	586.3	563.9	546.4	541.4	533.9	526.5	524.0
35°	5686.3	4453.7	1384.8	581.4	541.4	519.0	509.0	506.5	496.5	489.0	489.0
37.5°	6227.7	4713.2	1097.8	536.4	504.0	486.5	474.1	469.1	459.1	451.6	449.1
40°	6888.9	5050.0	853.3	501.5	469.1	451.6	439.1	431.6	419.2	409.2	404.2
42.5°	7732.2	5461.7	673.7	464.1	436.6	419.2	409.2	394.2	376.8	361.8	359.3
45°	8610.5	5885.9	556.4	429.2	406.7	391.7	379.3	359.3	334.3	316.9	311.9
47.5°	9284.2	6150.3	486.5	391.7	374.3	361.8	346.8	321.9	291.9	272.0	267.0
50°	9765.7	6190.3	434.1	356.8	346.8	334.3	311.9	281.9	249.5	229.5	224.6
52.5°	10002.7	6010.6	391.7	324.4	316.9	304.4	277.0	244.5	209.6	189.6	184.6
55°	10110.0	5671.3	351.8	296.9	286.9	272.0	242.0	207.1	172.2	154.7	149.7
57.5°	10067.6	5169.8	316.9	269.5	257.0	239.5	207.1	169.7	142.2	124.8	122.3
60°	9753.2	4466.2	281.9	242.0	227.1	207.1	174.7	139.7	114.8	102.3	99.8
62.5°	9074.6	3592.9	247.0	209.6	199.6	179.6	149.7	114.8	94.8	87.3	84.8
65°	7684.8	2540.0	212.1	177.1	172.2	152.2	124.8	94.8	82.3	77.3	74.9
67.5°	5524.1	1544.4	179.6	152.2	147.2	129.7	104.8	82.3	74.9	72.4	72.4
70°	2777.0	731.1	142.2	124.8	124.8	107.3	89.8	74.9	72.4	69.9	69.9
72.5°	943.1	311.9	107.3	97.3	102.3	92.3	77.3	69.9	69.9	69.9	69.9
75°	321.9	164.7	74.9	69.9	74.9	74.9	67.4	67.4	69.9	69.9	69.9
77.5°	209.6	109.8	52.4	47.4	57.4	57.4	57.4	62.4	67.4	67.4	67.4
80°	172.2	59.9	34.9	32.4	42.4	42.4	47.4	57.4	62.4	62.4	62.4
82.5°	147.2	37.4	20.0	22.5	29.9	32.4	39.9	47.4	54.9	57.4	57.4
85°	99.8	20.0	15.0	17.5	20.0	25.0	32.4	39.9	44.9	49.9	49.9
87.5°	27.4	7.5	10.0	12.5	12.5	17.5	25.0	29.9	34.9	37.4	37.4
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)