

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: P640512

Luminaire Tested: GWS-SA5E-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640512
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-SA5E-722-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21787.6 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

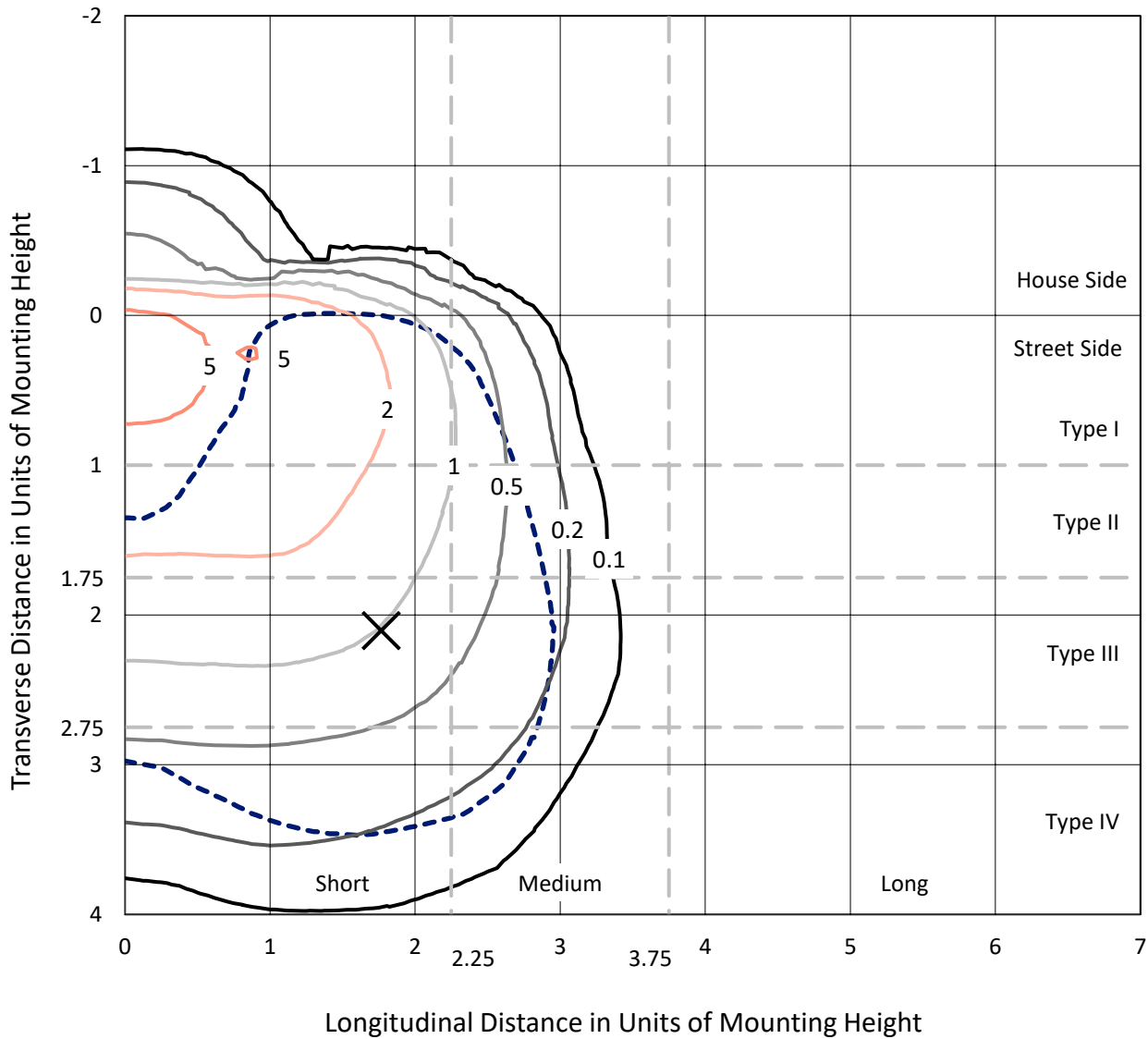
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

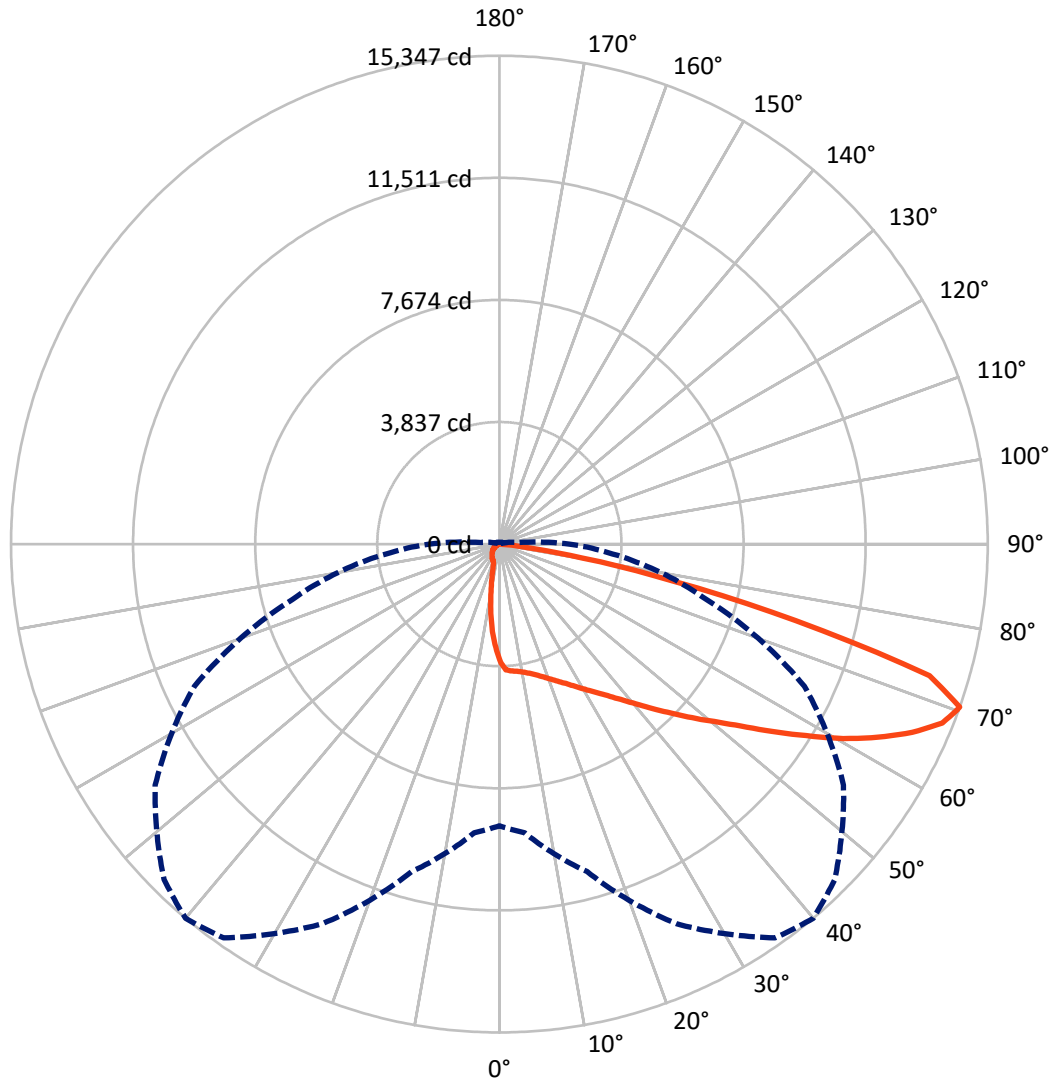
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	1781.7	0.0	1781.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	20005.9	0.0	20005.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	21787.6	0.0	21787.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.5	1.4
10°-20°	792.5	3.6
20°-30°	1326.4	6.1
30°-40°	2083.3	9.6
40°-50°	3295.3	15.1
50°-60°	4807.0	22.1
60°-70°	5958.9	27.4
70°-80°	3014.9	13.8
80°-90°	196.8	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°	21787.6	100.0
0°-180°	21787.6	100.0

Coefficient of Utilization



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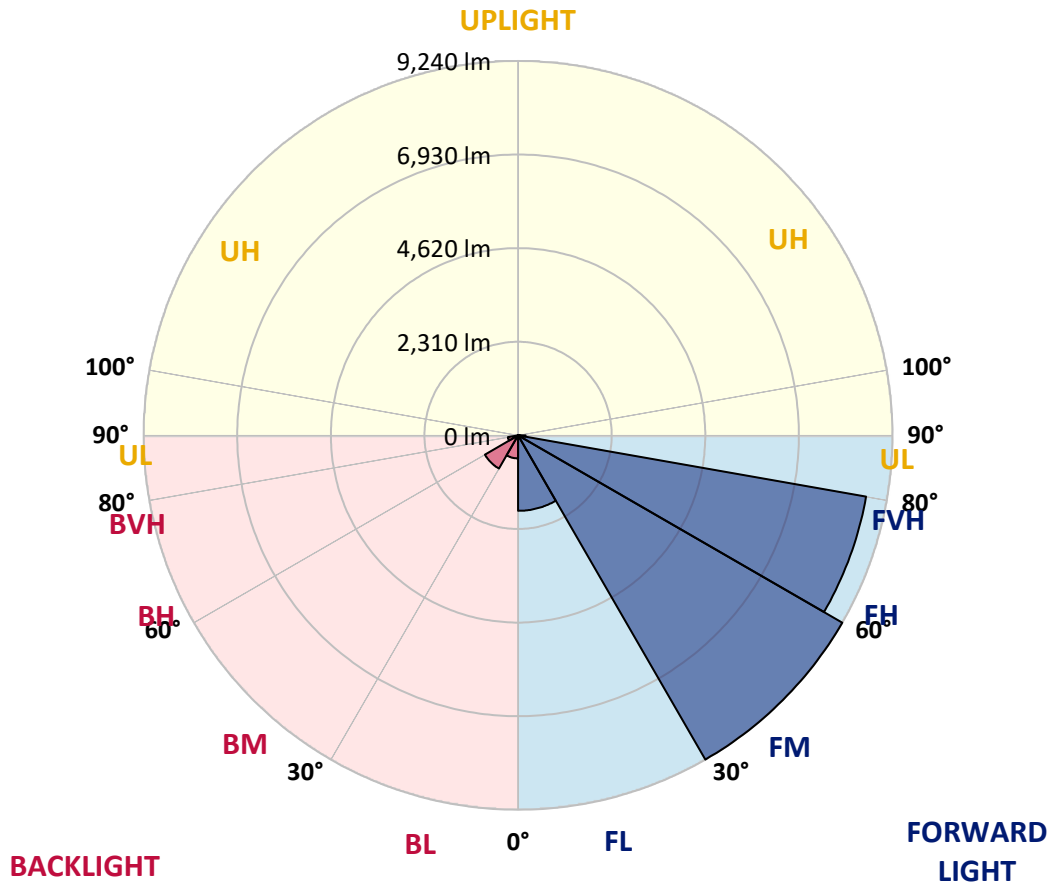
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1862.5	8.5			
FM (30°-60°)	9239.9	42.4			
FH (60°-80°)	8719.8	40.0			G4/12000
FVH (80°-90°)	183.8	0.8			G2/225
BL (0°-30°)	569.0	2.6	B2/1000		
BM (30°-60°)	945.7	4.3	B1/1000		
BH (60°-80°)	254.0	1.2	B1/500		G1/500
BVH (80°-90°)	13.0	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°	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1
2.5°	3974.6	3988.5	3986.5	3992.5	3978.6	3956.8	3952.8	3923.1	3869.6	3802.2	3726.8
5°	4055.9	4071.8	4059.9	4053.9	4028.1	4004.4	3998.4	3966.7	3905.2	3814.1	3683.2
7.5°	4125.3	4129.2	4121.3	4107.4	4069.8	4038.1	4016.3	3972.6	3899.3	3808.1	3657.4
10°	4137.2	4135.2	4139.2	4141.1	4117.4	4089.6	4071.8	4012.3	3919.1	3822.0	3659.4
12.5°	4123.3	4123.3	4149.1	4178.8	4178.8	4164.9	4147.1	4093.6	3984.5	3869.6	3699.1
15°	4141.1	4147.1	4196.6	4252.2	4270.0	4256.1	4248.2	4192.7	4079.7	3952.8	3770.4
17.5°	4204.6	4210.5	4289.8	4373.1	4394.9	4379.0	4363.2	4307.7	4186.7	4048.0	3851.7
20°	4297.7	4313.6	4414.7	4521.8	4541.6	4521.8	4490.0	4412.7	4291.8	4151.1	3929.0
22.5°	4468.2	4478.1	4587.2	4700.2	4710.1	4678.4	4630.8	4523.7	4396.9	4260.1	4016.3
25°	4694.2	4708.1	4817.1	4926.2	4900.4	4852.8	4787.4	4666.5	4521.8	4388.9	4127.3
27.5°	4963.8	4979.7	5086.7	5181.9	5114.5	5059.0	4985.6	4835.0	4688.3	4567.3	4270.0
30°	5255.2	5269.1	5364.3	5449.5	5360.3	5294.9	5207.7	5053.0	4904.3	4813.2	4472.2
32.5°	5536.7	5534.7	5625.9	5695.3	5604.1	5552.6	5473.3	5316.7	5197.7	5158.1	4773.5
35°	5798.4	5798.4	5873.7	5943.1	5877.7	5849.9	5776.6	5651.7	5584.3	5631.9	5175.9
37.5°	6062.0	6048.2	6119.5	6196.8	6190.9	6192.9	6151.3	6091.8	6095.7	6264.2	5729.0
40°	6280.1	6274.2	6357.4	6458.5	6537.8	6601.2	6575.5	6597.3	6722.2	7037.4	6436.7
42.5°	6454.6	6468.4	6575.5	6736.0	6936.3	7065.1	7083.0	7172.2	7493.3	7981.0	7235.6
45°	6654.8	6656.8	6805.4	7051.2	7370.4	7574.6	7645.9	7875.9	8331.8	8960.3	8111.8
47.5°	6900.6	6876.8	7043.3	7388.2	7850.1	8151.4	8278.3	8565.8	9271.5	9915.7	8825.5
50°	7172.2	7128.6	7316.9	7786.7	8387.3	8764.0	9021.7	9442.0	10203.2	10700.8	9356.7
52.5°	7487.4	7445.7	7659.8	8244.6	9031.6	9489.5	9820.6	10244.8	11002.1	11299.4	9673.9
55°	7887.8	7846.2	8072.2	8793.7	9792.8	10387.5	10734.5	11091.3	11745.5	11741.5	9903.9
57.5°	8331.8	8274.4	8587.6	9487.6	10742.4	11360.9	11713.7	11888.2	12310.4	12084.4	10058.5
60°	8841.3	8789.8	9223.9	10314.2	11838.6	12411.5	12633.6	12562.2	12774.3	12286.6	10005.0
62.5°	9301.2	9277.4	9816.6	11190.4	12883.3	13367.0	13428.5	13117.3	13115.3	12290.6	9644.2
65°	9779.0	9824.6	10625.4	12199.4	13934.0	14259.1	14154.0	13668.3	13252.1	11804.9	8577.7
67.5°	9957.4	10090.2	11158.7	13111.3	14762.6	15016.3	14832.0	13943.9	12683.1	10171.5	6531.9
70°	8855.2	9105.0	10655.2	13162.8	15105.6	15347.4	14905.3	13202.5	10573.9	6738.0	3578.2
72.5°	6734.1	7025.5	8879.0	10778.1	13585.1	14136.2	13380.9	10756.3	6815.3	2951.7	1201.3
75°	3768.5	4083.7	6613.1	8115.8	9120.8	9624.3	9346.8	6900.6	3019.1	771.1	358.8
77.5°	1274.7	1379.7	3076.6	5021.3	6020.4	5568.4	4714.0	3427.5	1110.1	293.4	190.3
80°	755.3	794.9	1145.8	2499.8	3167.8	2626.6	2073.5	1266.7	565.0	156.6	132.8
82.5°	226.0	267.6	632.4	927.7	1241.0	773.1	654.2	723.6	293.4	85.2	111.0
85°	0.0	0.0	134.8	287.4	325.1	126.9	126.9	410.3	53.5	35.7	81.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	9.9	5.9	7.9	17.8
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°	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1
2.5°	3673.3	3603.9	3522.6	3445.3	3372.0	3276.8	3231.2	3175.7	3128.2	3102.4	3116.3
5°	3600.0	3490.9	3324.4	3155.9	2985.4	2824.9	2680.1	2583.0	2495.8	2450.2	2460.1
7.5°	3536.5	3389.8	3130.1	2854.6	2581.0	2305.5	2081.5	1907.0	1772.2	1716.7	1706.8
10°	3508.8	3324.4	2957.7	2561.2	2140.9	1770.2	1453.1	1260.8	1124.0	1056.6	1068.5
12.5°	3522.6	3290.7	2811.0	2273.8	1728.6	1296.5	993.2	812.8	715.6	676.0	666.1
15°	3562.3	3282.8	2680.1	1980.4	1334.1	905.9	685.9	612.5	592.7	588.8	588.8
17.5°	3607.9	3284.8	2545.3	1683.0	1013.0	672.0	586.8	572.9	567.0	563.0	565.0
20°	3653.5	3284.8	2390.7	1381.7	761.2	580.8	559.0	549.1	543.2	541.2	541.2
22.5°	3709.0	3284.8	2218.3	1102.2	610.6	551.1	533.3	527.3	521.4	519.4	517.4
25°	3776.4	3286.7	2028.0	862.3	555.1	525.3	511.4	505.5	499.6	495.6	495.6
27.5°	3873.5	3302.6	1817.8	672.0	523.3	501.5	489.6	483.7	477.7	471.8	471.8
30°	4014.3	3342.3	1581.9	555.1	493.6	475.8	463.9	459.9	454.0	448.0	446.0
32.5°	4224.4	3411.6	1338.1	497.6	465.9	448.0	434.1	430.2	424.2	418.3	416.3
35°	4517.8	3538.5	1100.2	461.9	430.2	412.3	404.4	402.4	394.5	388.5	388.5
37.5°	4948.0	3744.7	872.2	426.2	400.4	386.6	376.6	372.7	364.8	358.8	356.8
40°	5473.3	4012.3	678.0	398.5	372.7	358.8	348.9	342.9	333.0	325.1	321.1
42.5°	6143.3	4339.4	535.2	368.7	346.9	333.0	325.1	313.2	299.3	287.4	285.5
45°	6841.1	4676.4	442.1	341.0	323.1	311.2	301.3	285.5	265.6	251.8	247.8
47.5°	7376.3	4886.5	386.6	311.2	297.4	287.4	275.5	255.7	231.9	216.1	212.1
50°	7758.9	4918.2	344.9	283.5	275.5	265.6	247.8	224.0	198.2	182.4	178.4
52.5°	7947.3	4775.5	311.2	257.7	251.8	241.8	220.0	194.3	166.5	150.7	146.7
55°	8032.5	4505.9	279.5	235.9	228.0	216.1	192.3	164.5	136.8	122.9	118.9
57.5°	7998.8	4107.4	251.8	214.1	204.2	190.3	164.5	134.8	113.0	99.1	97.1
60°	7749.0	3548.4	224.0	192.3	180.4	164.5	138.8	111.0	91.2	81.3	79.3
62.5°	7209.8	2854.6	196.3	166.5	158.6	142.7	118.9	91.2	75.3	69.4	67.4
65°	6105.7	2018.0	168.5	140.7	136.8	120.9	99.1	75.3	65.4	61.5	59.5
67.5°	4388.9	1227.1	142.7	120.9	117.0	103.1	83.3	65.4	59.5	57.5	57.5
70°	2206.4	580.8	113.0	99.1	99.1	85.2	71.4	59.5	57.5	55.5	55.5
72.5°	749.3	247.8	85.2	77.3	81.3	73.3	61.5	55.5	55.5	55.5	55.5
75°	255.7	130.8	59.5	55.5	59.5	59.5	53.5	53.5	55.5	55.5	55.5
77.5°	166.5	87.2	41.6	37.7	45.6	45.6	45.6	49.6	53.5	53.5	53.5
80°	136.8	47.6	27.8	25.8	33.7	33.7	37.7	45.6	49.6	49.6	49.6
82.5°	117.0	29.7	15.9	17.8	23.8	25.8	31.7	37.7	43.6	45.6	45.6
85°	79.3	15.9	11.9	13.9	15.9	19.8	25.8	31.7	35.7	39.6	39.6
87.5°	21.8	5.9	7.9	9.9	9.9	13.9	19.8	23.8	27.8	29.7	29.7
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)