

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: P640018

Luminaire Tested: GWS-SA5D-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21251.6 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

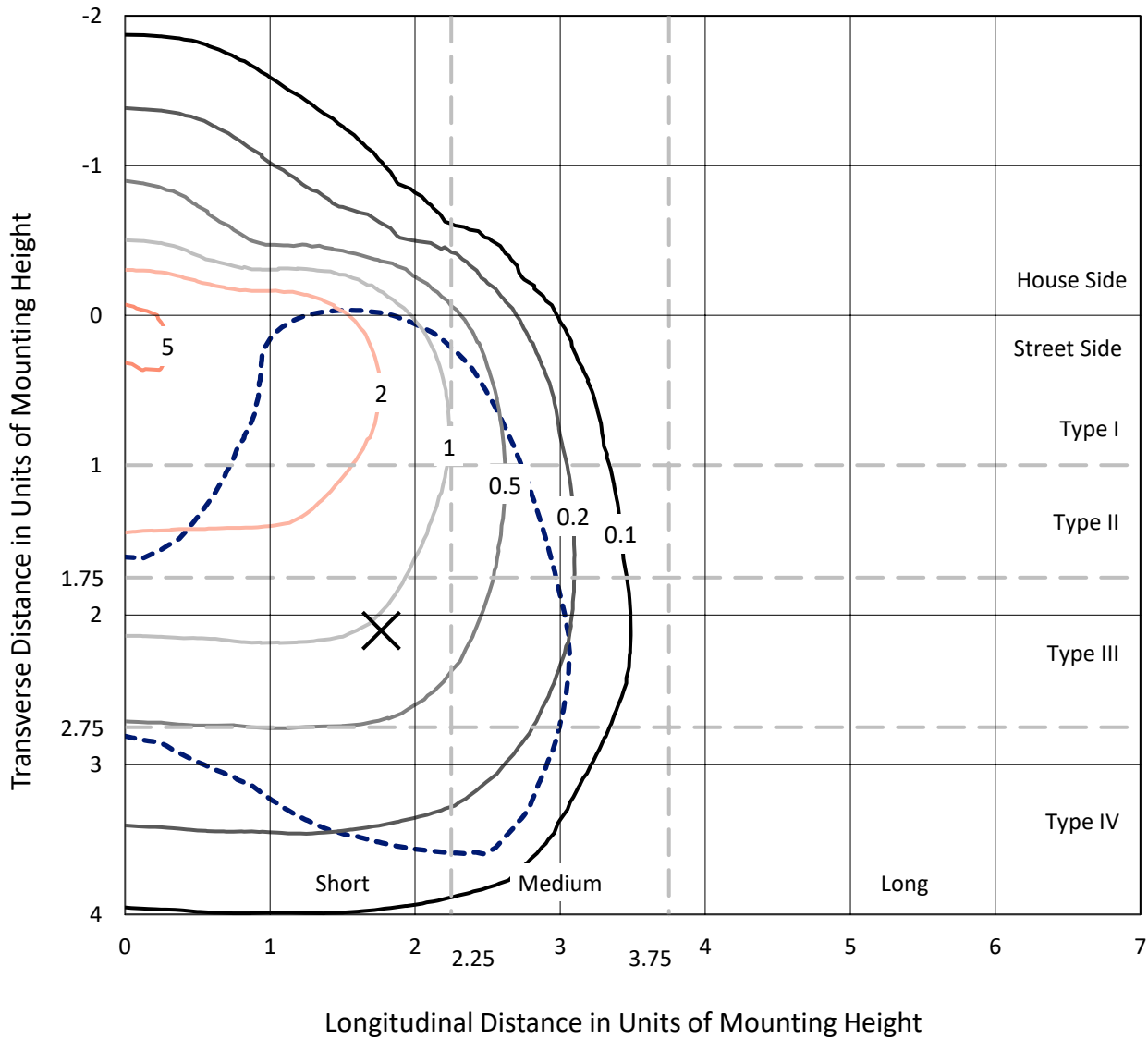
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

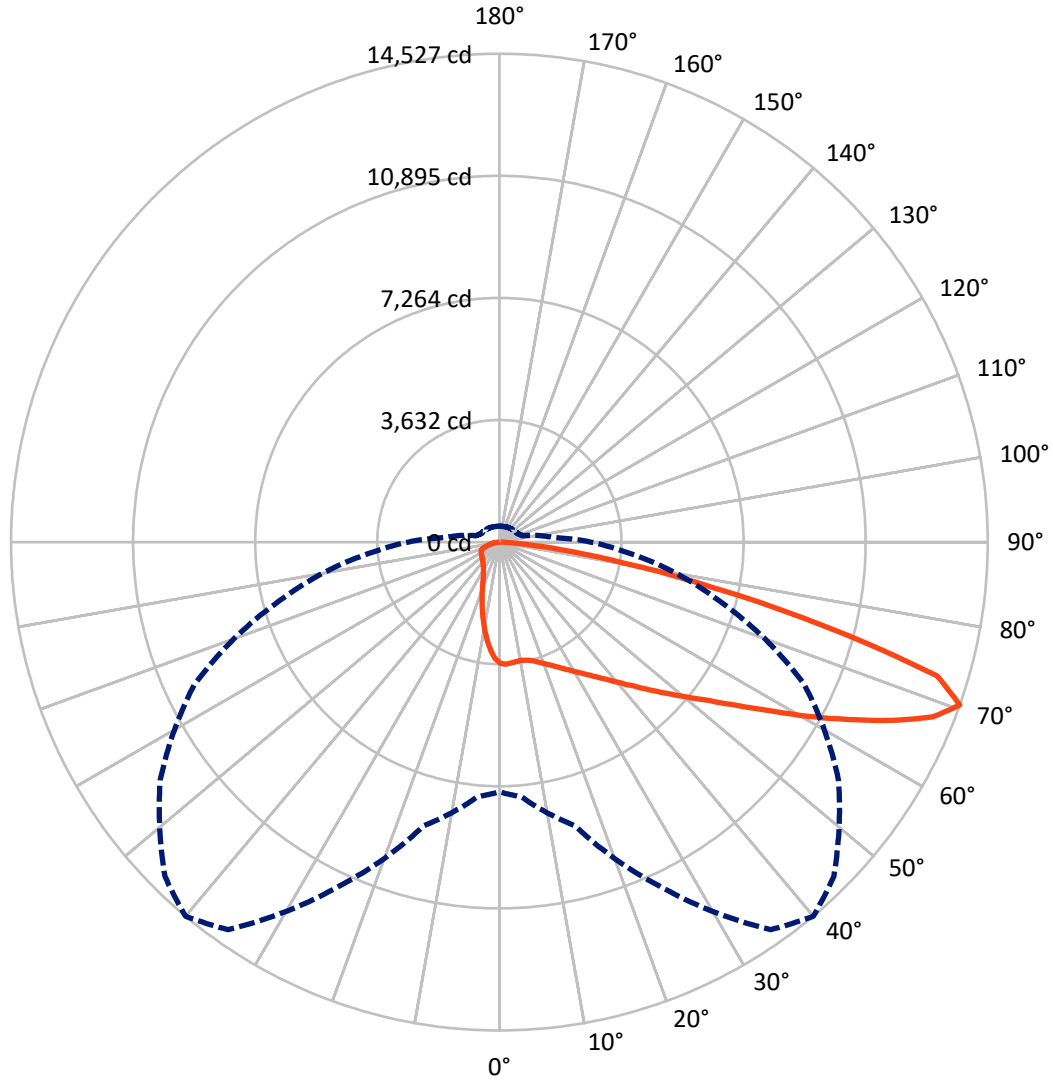
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3273.3	0.0	3273.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	17978.3	0.0	17978.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	21251.6	0.0	21251.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.8	1.5
10°-20°	831.0	3.9
20°-30°	1304.8	6.1
30°-40°	1961.8	9.2
40°-50°	3028.1	14.2
50°-60°	4497.0	21.2
60°-70°	5668.4	26.7
70°-80°	3278.0	15.4
80°-90°	363.8	1.7
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°	21251.6	100.0
0°-180°	21251.6	100.0

Coefficient of Utilization



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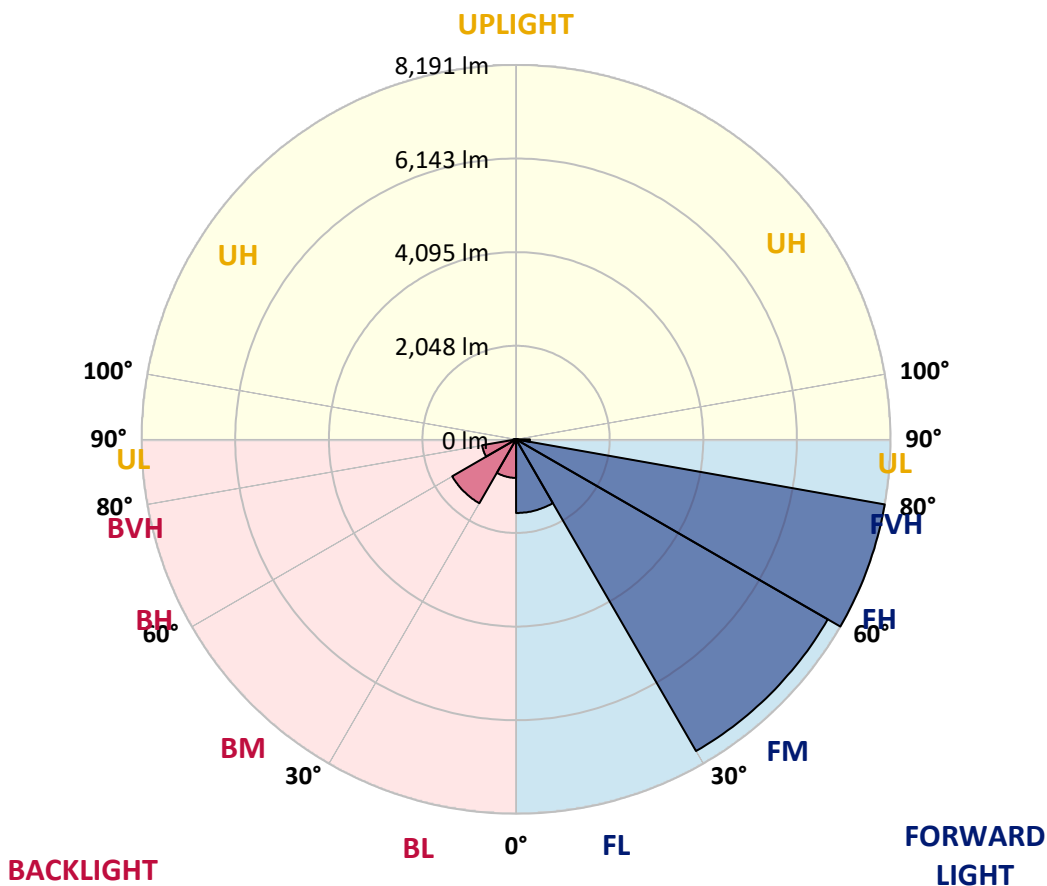
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1611.0	7.6			
FM (30°-60°)	7873.4	37.0			
FH (60°-80°)	8190.9	38.5			G4/12000
FVH (80°-90°)	303.0	1.4			G3/500
BL (0°-30°)	843.6	4.0	B2/1000		
BM (30°-60°)	1613.4	7.6	B2/2500		
BH (60°-80°)	755.5	3.6	B2/1000		G2/1000
BVH (80°-90°)	60.8	0.3			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°	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8
2.5°	3631.0	3637.3	3642.1	3648.4	3645.2	3635.7	3643.7	3643.7	3626.2	3607.2	3589.7
5°	3635.7	3643.7	3642.1	3640.5	3627.8	3611.9	3611.9	3602.4	3572.3	3542.1	3513.6
7.5°	3626.2	3624.6	3623.0	3618.3	3604.0	3586.6	3583.4	3564.3	3524.7	3483.5	3442.2
10°	3583.4	3581.8	3586.6	3597.7	3594.5	3578.6	3578.6	3561.2	3515.2	3464.4	3410.5
12.5°	3548.5	3548.5	3567.5	3597.7	3608.8	3602.4	3604.0	3591.3	3539.0	3478.7	3415.2
15°	3553.2	3554.8	3596.1	3645.2	3665.9	3661.1	3662.7	3648.4	3589.7	3529.5	3443.8
17.5°	3585.0	3592.9	3664.3	3732.5	3759.5	3753.1	3742.0	3718.2	3651.6	3583.4	3478.7
20°	3651.6	3664.3	3756.3	3841.9	3873.7	3859.4	3840.4	3792.8	3719.8	3645.2	3516.8
22.5°	3783.3	3791.2	3892.7	3976.8	4002.2	3984.7	3946.6	3878.4	3794.4	3716.6	3562.8
25°	3968.8	3978.4	4075.1	4152.9	4146.5	4125.9	4073.5	3989.5	3889.5	3807.0	3629.4
27.5°	4189.3	4205.2	4300.4	4362.2	4321.0	4290.9	4232.2	4130.6	4018.0	3943.5	3730.9
30°	4430.5	4436.8	4517.7	4579.6	4516.1	4474.9	4403.5	4294.0	4192.5	4137.0	3883.2
32.5°	4663.6	4670.0	4739.8	4774.7	4708.1	4677.9	4616.0	4500.2	4428.9	4398.7	4110.0
35°	4909.5	4907.9	4965.0	4995.2	4927.0	4914.3	4850.8	4762.0	4749.3	4789.0	4441.6
37.5°	5155.4	5141.1	5171.2	5210.9	5172.8	5185.5	5144.3	5114.1	5163.3	5266.4	4882.5
40°	5352.1	5352.1	5383.8	5433.0	5445.7	5501.2	5477.4	5517.0	5675.7	5921.5	5428.2
42.5°	5526.6	5528.2	5594.8	5670.9	5762.9	5848.6	5867.6	5970.7	6299.1	6684.5	6113.5
45°	5709.0	5710.6	5801.0	5912.0	6107.1	6270.5	6308.6	6540.2	7009.7	7479.3	6857.4
47.5°	5920.0	5902.5	6027.8	6213.4	6491.0	6725.8	6824.1	7152.5	7745.8	8323.2	7558.6
50°	6157.9	6121.4	6261.0	6581.4	6924.1	7246.1	7411.1	7787.0	8535.7	9102.0	8218.5
52.5°	6426.0	6405.4	6551.3	6941.5	7465.0	7836.2	8059.8	8553.2	9303.5	9877.7	8741.9
55°	6759.1	6709.9	6920.9	7417.4	8099.5	8572.2	8837.1	9311.4	10142.6	10582.0	9141.7
57.5°	7123.9	7070.0	7352.4	8012.3	8924.4	9443.1	9774.6	10164.8	10932.6	11121.3	9376.4
60°	7517.3	7499.9	7834.6	8710.2	9907.8	10510.6	10750.2	11103.9	11619.4	11433.8	9317.8
62.5°	7877.4	7871.1	8358.1	9466.9	10950.0	11613.1	11803.4	11897.0	12114.3	11413.2	8851.4
65°	8256.5	8310.5	8968.8	10344.1	12144.5	12794.9	12874.2	12636.2	12280.9	10872.3	7896.5
67.5°	8304.1	8408.8	9352.7	11165.8	13277.1	13891.0	13827.5	12917.0	11789.2	9366.9	6189.6
70°	7426.9	7609.3	8740.4	11291.1	14075.0	14527.1	14068.6	12312.6	10004.6	6786.1	3892.7
72.5°	6205.5	6362.5	7361.9	9628.7	13045.5	13621.3	13001.1	10421.8	7070.0	3892.7	1982.8
75°	4830.2	5012.6	5934.2	7653.8	9766.7	9996.7	9685.8	7268.3	3886.4	1605.3	901.0
77.5°	2947.3	3079.0	3795.9	5185.5	6833.7	6489.4	5499.6	4075.1	1705.2	769.3	556.8
80°	1303.9	1384.8	1870.2	2785.5	3948.2	3732.5	2942.5	1740.1	932.7	488.6	388.6
82.5°	699.5	751.9	921.6	1102.5	1733.8	1813.1	1470.5	1002.5	501.3	279.2	222.1
85°	307.7	337.9	418.8	399.7	569.5	560.0	564.7	688.4	239.5	128.5	144.4
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	17.4	92.0	23.8	38.1	33.3
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°	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8	3608.8
2.5°	3570.7	3542.1	3534.2	3524.7	3507.2	3477.1	3454.9	3429.5	3418.4	3405.7	3407.3
5°	3481.9	3447.0	3413.7	3370.8	3316.9	3256.6	3215.4	3167.8	3142.4	3118.6	3125.0
7.5°	3405.7	3351.8	3283.6	3193.2	3096.4	2988.5	2901.3	2833.1	2787.1	2755.4	2771.2
10°	3358.1	3294.7	3175.7	3028.2	2864.8	2699.8	2574.5	2457.1	2384.2	2327.1	2323.9
12.5°	3348.6	3266.1	3093.2	2879.1	2642.7	2422.2	2238.2	2079.6	1982.8	1911.5	1938.4
15°	3358.1	3253.4	3021.8	2741.1	2442.9	2144.6	1916.2	1733.8	1618.0	1553.0	1548.2
17.5°	3369.2	3240.8	2940.9	2592.0	2233.5	1892.4	1627.5	1434.0	1315.0	1250.0	1251.6
20°	3378.8	3221.7	2845.8	2428.6	2020.9	1657.7	1383.2	1199.2	1092.9	1045.4	1053.3
22.5°	3394.6	3202.7	2744.2	2254.1	1803.6	1430.8	1189.7	1040.6	977.1	945.4	947.0
25°	3424.8	3191.6	2639.6	2063.7	1589.4	1250.0	1056.5	956.5	916.9	897.8	896.2
27.5°	3486.6	3201.1	2530.1	1879.7	1395.9	1112.0	970.8	905.8	878.8	866.1	864.5
30°	3589.7	3239.2	2434.9	1692.6	1229.4	1004.1	912.1	872.4	856.6	845.5	843.9
32.5°	3746.8	3310.5	2331.8	1518.1	1094.5	924.8	866.1	845.5	834.4	828.0	828.0
35°	3984.7	3440.6	2230.3	1365.8	989.8	862.9	829.6	821.7	812.2	809.0	812.2
37.5°	4327.3	3648.4	2138.3	1232.5	915.3	815.3	790.0	793.1	785.2	790.0	794.7
40°	4762.0	3926.0	2060.6	1123.1	859.8	780.4	755.1	766.2	761.4	766.2	774.1
42.5°	5312.4	4270.2	2001.9	1037.4	820.1	751.9	728.1	739.2	736.0	742.4	750.3
45°	5926.3	4723.9	1974.9	977.1	791.5	731.3	705.9	713.8	710.6	715.4	723.3
47.5°	6514.8	5136.3	1998.7	942.2	767.8	713.8	686.9	690.0	688.4	686.9	691.6
50°	7022.4	5464.7	2066.9	931.1	751.9	696.4	671.0	672.6	667.8	658.3	661.5
52.5°	7436.4	5728.0	2108.2	931.1	744.0	677.3	653.5	655.1	645.6	632.9	634.5
55°	7709.3	5834.3	2074.8	929.6	740.8	661.5	636.1	637.7	628.2	612.3	613.9
57.5°	7787.0	5731.2	1935.3	912.1	737.6	648.8	618.6	621.8	615.5	598.0	598.0
60°	7569.7	5353.7	1679.9	872.4	729.7	640.9	606.0	610.7	607.5	590.1	590.1
62.5°	7000.2	4682.7	1375.3	812.2	707.5	631.3	594.9	604.4	612.3	602.8	601.2
65°	5934.2	3751.5	1118.3	745.5	678.9	615.5	579.0	602.8	620.2	632.9	632.9
67.5°	4452.7	2685.6	912.1	675.8	636.1	583.7	558.4	580.6	593.3	601.2	606.0
70°	2714.1	1579.9	718.6	594.9	574.2	536.2	517.1	494.9	477.5	474.3	475.9
72.5°	1327.7	904.2	583.7	506.0	490.2	455.3	412.4	402.9	395.0	390.2	388.6
75°	731.3	629.7	482.2	420.4	391.8	349.0	339.5	323.6	320.4	314.1	315.7
77.5°	517.1	496.5	398.2	341.0	298.2	276.0	280.8	269.7	269.7	264.9	263.3
80°	388.6	390.2	306.2	249.0	220.5	212.6	217.3	217.3	214.1	212.6	211.0
82.5°	245.9	277.6	206.2	160.2	157.0	158.6	157.0	155.5	158.6	153.9	152.3
85°	169.7	199.9	125.3	95.2	95.2	93.6	96.8	95.2	98.3	93.6	93.6
87.5°	38.1	88.8	46.0	28.6	30.1	28.6	30.1	31.7	34.9	36.5	36.5
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)